

Pathology Laboratory

Specimen Collection Guide

Version 15.0

Table of Contents

Collection Information
Division of Anatomical Pathology4
Cytopathology5
Histopathology and Morgue7
Division of Clinical Biochemistry
Point of Care
Division of Hematopathology
Hematology and Coagulation285
Immunology
Transfusion Medicine
Division of Microbiology and Virology
Microbiology
Serology446
Division of Pathology Genetics
Pathology Genetics
Division of Pathology Sciences
Molecular Infectious Diseases
APPENDIX A – MICROBIOLOGY COLLECTION QUICK REFERENCE GUIDE
APPENDIX B – NON-MICRO COLLECTION QUICK REFERENCE GUIDE
APPENDIX C - QUICK REFERENCE GUIDE: GENERAL PATHOLOGY SPECIMEN LABELLING REQUIREMENTS

Collection Information

For Sidra staff more information regarding the collection of specimens refer to the following documents.

Document Name	Location
PRO- O- Collection, Labelling, Handling and	Sidra Portal
Transport of Biological Specimens for Laboratory	
Testing	

For requests from outside Sidra Medicine, please contact the Pathology Department on 4003 3000 for further enquiries.

Division of Anatomical Pathology



Cytopathology

Test Name	Pathology Gyn Cytology
Collection Instructions	Transport samples to Lab the same day or within 24 hours
	SurePath samples require that the sample brush be sent with the
	sample and rinsed in the vial. Ensure sample pot lids are securely
	closed.
Specimen Type	20 ml SurePath PreservCyt vial for Cervical Cytology.
Specimen Handling	Clinical handling Incomplete labelling can lead to delays in
	processing and results.
	Sendaway procedure to HMC
Turnaround Time	Routine – 14 calendar days , 16 calender days with HPV requested



Test Name	Pathology Non-Gyn Cytology
Collection Instructions	Transport samples to Lab the same day and within 2 hours of
	sampling. Ensure sample pot lids are securely closed
Specimen Type	Provide sample of native fluid eg. pleural / ascitic fluid, up to 20
	ml volume in a Sterile container.
Specimen Handling	
	Sendaway procedure to HMC
Turnaround Time	Routine – 8 calendar days



Histopathology and Morgue

Test Name	Pathology Morgue Deceased Patient Request
Order Schedule	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	After death of liveborn, child or adult
	Ensure death notification or forensic case, legal documents,
	consideration of autopsy examination, and identification have
	been completed as on the ward checklist.
	Information required at the time of order:
	Collection date and time
	Clinical information
	CallBack Number
	Deceased Date/Time
	Infection Category
	Radioactive/Cytotoxic
	Medical/Police(Forensic)
	Location of Death
	Autopsy Consent
	Autopsy Type
	Reason for Autopsy
	Social Work contact
	Ordering Physician
	Order Date/Time
	Order Communication Type
	Orders placed (Duplicate, incorrect, or otherwise), where the
	body is not received in the Morgue within one (1) month of
	ordering will be cancelled.
Collection Instructions	Order label (Julian label) printed x2 and attached to appropriate
	body tag.
	Infection status needs to be communicated to Morgue prior to
	transportation.
	Send to Morgue.
Turnaround Time	If autopsy:
	Preliminary report 2 working days after examination.
	Final report under 60 working days after examination.



Pathology Laboratory S	Specimen Collection Guide
------------------------	---------------------------

Test Name	Pathology Morgue Fetal Loss <20 Weeks Request
Order Schedule	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	Fetal loss <20 weeks
	Ensure consideration of autopsy examination and identification
	have been completed as on the ward checklist.
	Information required at the times of orders
	Information required at the time of order: Collection date and time
	Clinical information (gestational age)
	CallBack Number
	Infection Category
	Medical/Police(Forensic)
	Autopsy Consent
	Autopsy Type
	Social Work contact
	Gestational age
	Order of Delivery
	Ordering Physician
	Order Date/Time
	Order Communication Type
	Orders placed (Duplicate, incorrect, or otherwise), where the
	body is not received in the Morgue within one (1) month of
	ordering will be cancelled.
Collection Instructions	Place in appropriate size container with Julian labels attached.
	Send fresh to Morgue as soon as possible.
Turnaround Time	If autopsy:
	Preliminary report 2 working days after examination.
	Final report under 60 working days after examination.
Fetuses for burial/Disposal only	Fetuses, not requiring pathology examination, should be sent to
	the Department of Pathology and accompanied by a Pathology
	Morgue Fetal Loss <20 Weeks Request. The order should clearly
	state 'No examination required, for disposal only'. These will
	receive a group burial, unless other arrangements are made.



Test Name	Pathology Morgue Still Birth Request
Order Schedule	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	Fetal loss >/=20 weeks
	Ensure fetal death notification, consideration of autopsy examination, and identification have been completed as on the ward checklist.
	Information required at the time of order:
	Collection date and time
	Clinical information (gestational age)
	CallBack Number
	Infection Category
	Medical/Police(Forensic)
	Autopsy Consent
	Autopsy Type
	Social Work contact
	Gestational age
	Order of delivery
	Ordering Physician
	Order Date/Time
	Order Communication Type
	Orders placed (Duplicate, incorrect, or otherwise), where the body is not received in the Morgue within one (1) month of ordering will be cancelled.
Collection Instructions	Order label (Julian label) printed x2 and attached to appropriate
	body tag.
	Infection status needs to be communicated to Morgue prior to
	transportation.
	Send to Morgue.
Turnaround Time	If autopsy:
-	Preliminary report 2 working days after examination.
	Final report under 60 working days after examination.



Test Name	Pathology Tissue Request
Order Schedule	Tumors, frozen sections, IR liver biopsies, IR renal biopsies,
	Muscle biopsies and HD pull-throughs must be scheduled with
	the AP laboratory at least 24 hours in advance.
	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	Information required at the time of order:
	Frozen Section: Y/N
	Danger of Infection / High Risk: Y/N
	Specimen Description: Site (and laterality, if required)
	Pre-operative diagnosis
	Clinical Information: Provide all relevant information
	CallBack Number: Physician's mobile number, in case of queries
	Orders placed (Duplicate, incorrect, or otherwise), where the
	specimen is not received in the laboratory within one (1) month
	of ordering will be cancelled.
Collection Instructions	1 Order = 1 Specimen site = 1 Pot
	Each pot must have a unique Julian Number/Label
	All specimens must include the (handwritten) date/time
	specimen was placed into pot.
	Cerner WILL NOT ALLOW a specimen to be processed until the
	order is fully and correctly completed, i.e. ALL errors have been
	corrected.
	It is the Doctor's responsibility to correct or cancel incorrect
	orders. Failure to do so initiates the lost specimen procedure
	involving Datix and escalation to Line Manager. Per policy, AP
	staff are not allowed to re-label specimens. Once received, to
	maintain chain of custody, specimens CANNOT be returned to
	their originating source for correction.
	See <u>table</u> below for specific specimen requirements.
Turnaround Time	Routine: 7 calendar days
	Complex: may take longer than 7 days
	Urgent: As soon as possible depending on the histological
	techniques the tissue sample need to be subjected to.
	Frozen Section: 30 minutes



Tissue for disposal only	Tissues not requiring pathology examination (e.g. Non-medical circumcision, routine placentas) should be disposed in surgical waste.
	Large amputations, not requiring pathology examination, should be sent to the Department of Pathology and accompanied by a Pathology Tissue Request. The order should clearly state 'No examination required, for disposal only'. These will receive a group burial, unless other arrangements are made.
	NOTE: Fetuses should be sent with a Pathology Morgue Fetal Loss <20 Weeks Request.



Test Name	Pathology Tissue Request-Upper GI
	Pathology Tissue Request - Lower GI
	Pathology Tissue Request - GI-U and L
Order Schedule	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	Tick the boxes of the specimens to be collected. The first box
	must be checked; Modify the specimen description of subsequent
	specimens, if necessary.
	Orders placed (Duplicate, incorrect, or otherwise), where the
	specimen is not received in the laboratory within one (1) month
	of ordering will be cancelled.
Collection Instructions	Additional training is required before usage, contact PEARL Team.
	1 Order = 1 Specimen site = 1 Pot
	Fach not much have a unique Julian Number/Labol
	Each pot must have a unique Julian Number/Label
	All specimens must include the (handwritten) date/time
	specimen was placed into pot.
	specificit was placed into pot.
	Cerner WILL NOT ALLOW a specimen to be processed until the
	order is fully, and correctly completed i.e. <u>ALL</u> errors have been
	corrected.
	It is the Doctor's responsibility to correct, or cancel incorrect
	orders. Failure to do so initiates the lost specimen procedure,
	involving Datix, and escalation to Line Manager. Per policy, AP
	staff are not allowed to re-label specimens. Once received, to
	maintain chain of custody, specimens CANNOT be returned to
	their originating source for correction.
	See <u>table</u> below for specific specimen requirements.
Turnaround Time	Routine: 7 calendar days
	Complex: may take longer than 7 days
	Urgent: As soon as possible depending on the histological
	techniques the tissue sample need to be subjected to.
	Frozen Section: 30 minutes



Test Name	Pathology Tissue Request - Multiple Samples
Order Schedule	Tumors, frozen sections, IR liver biopsies, IR renal biopsies,
	muscle biopsies and HD pull-throughs must be scheduled with the
	AP laboratory at least 24 hours in advance.
	AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday
	(H2M-24000)
	Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-
	33013)
	AP On-call (24/7): +974 3136 1305
Order Information	Tick the boxes of the specimens to be collected. The first box
	must be checked; Modify the specimen description of subsequent
	specimens, if necessary.
	Orders placed (Duplicate, incorrect, or otherwise), where the
	specimen is not received in the laboratory within one (1) month
	of ordering will be cancelled.
Collection Instructions	Additional training is required before usage, contact PEARL Team.
	1 Order = 1 Specimen site = 1 Pot
	Each pot must have a unique Julian Number/Label
	All specimens must include the (handwritten) date/time
	specimen was placed into pot.
	Cerner <u>WILL NOT ALLOW</u> a specimen to be processed until the
	order is fully, and correctly completed i.e. <u>ALL</u> errors have been
	corrected.
	It is the Doctor's responsibility to correct, or cancel incorrect
	orders. Failure to do so initiates the lost specimen procedure,
	involving Datix, and escalation to Line Manager. Per policy, AP
	staff are not allowed to re-label specimens. Once received, to
	maintain chain of custody, specimens CANNOT be returned to
	their originating source for correction.
	See <u>table</u> below for specific specimen requirements.
Turnaround Time	<u>Routine</u> : 7 calendar days
	Complex: may take longer than 7 days
	Urgent: As soon as possible depending on the histological
	techniques the tissue sample need to be subjected to.
	Frozen Section: 30 minutes



Specimen	Container	When	Where
Routine small specimens	Formalin	ASAP or Batches	
Tumour Liver Bx Renal Bx (Via IR) Muscle Biopsies HD Pull-through Frozen Section	Fresh	<u>During working hours</u> : Immediately (24hrs notice required) <u>Overnight/Weekend</u> : Not acceptable unless prior arrangements made (AP is not 24/7)	During working hours: AP Specimen Reception (H2M-24100) OR
Ancillary Testing e.g. - Infectious - Molecular - Lymph Node - Flow Cytometry - Virology - Shared Specimen	Fresh	During working hours: ASAP Overnight/Weekend: Not acceptable unless prior arrangements made (AP is not 24/7)	Pathology Main Specimen Reception (H2M-24068) Overnight/Weekend (AP Closed): Pathology Main Specimen Reception (H2M-24068)
Large specimens e.g. - Placenta - Bowel - Kidney - Liver - POC	Fresh	During working hours: ASAP Overnight/Weekend: ASAP	



Division of Clinical Biochemistry



Test Orderable	17-d Hydroxyprogesterone
Synonym(s)	17OHP
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	5 Aminolevulinic Acid Urine
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	Freeze sample on receipt by Lab
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	5 HIAA 24 Hour Urine
Synonym(s)	5-hydroxyindoleacetic acid 24 Hr Urine
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	5-Hydroxyindoleacetic Acid Urine (Spot urine)
Synonym(s)	5 HIAA Urine
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	6 Thioguanine
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Acetaminophen Level
Synonym(s)	Paracetamol Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Sidra
Routine Turnaround Time	4 Hours
Urgent Turnaround Time	1 Hours
STAT Turnaround Time	1 Hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
N/A for Acetaminophen					10		

For known acetaminophen exposure, a sample should be taken at 4 hours from ingestion of any suspected overdose. If the patient presents later than 4 hours then take the sample immediately. As a screening test for unknown ingestions or ingestions with intent of self-harm, a screening acetaminophen assay may be taken immediately.



Test Orderable	Adrenocorticotropic Hormone
Synonym(s)	ACTH
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Map EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	Keep On Ice
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Alanine Aminotransferase
Synonym(s)	ALT
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	<1yrs	Both	6	33	IU/L		>360
1 yr	< 13 yrs	Both	10	25	IU/L		>360
13 yrs	< 19yrs	Female	9	22	IU/L		>360
13 yrs	< 19yrs	Male	10	24	IU/L		>360
19yrs	150 yrs	Male		<50	IU/L		>360
19yrs	150 yrs	Female		<35	IU/L		>360



Test Orderable	Albumin Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	< 15 d	Both	31	43	g/L		
15 d	< 1yr	Both	28	48	g/L		
1 yr	< 8 yrs	Both	38	47	g/L		
8 yrs	< 15 yrs	Both	39	49	g/L		
15 yrs	< 19 yrs	Male	40	52	g/L		
15 yrs	< 19 yrs	Female	38	51	g/L		
19 yrs	150 yrs	Both	35	52	g/L		



Test Orderable	Albumin Level 24 Hour Urine
Synonym(s)	24 Hour Urine Albumin Level, 24hr Urine Microalbumin
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	0	30	mg/24hrs		



Test Orderable	Albumin Level Urine
Synonym(s)	Urine Albumin
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	See below	See below	mg/L		-

Note: There should be no/minimal albumin in urine. Results should be interpreted in the clinical context.



Test Orderable	Microalbumin (Spot Urine)
Synonym(s)	Urine albumin, albumin:creatinine ratio, ACR
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	0	3	mg/mmol		



Test Orderable	Aldolase
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Aldosterone
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Map EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Alkaline Phosphatase
Synonym(s)	ALP
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 15 days	Both	91	281	IU/L		
15 d	< 1yr	Both	137	535	IU/L		
1 yr	< 10 yrs	Both	160	381	IU/L		
10 yrs	< 13 yrs	Both	144	475	IU/L		
13 yrs	< 15 yrs	Female	62	288	IU/L		
13 yrs	< 15 yrs	Male	130	534	IU/L		
15 yrs	< 17 yrs	Female	54	131	IU/L		
15 yrs	< 17 yrs	Male	90	377	IU/L		
17 yrs	< 19 yrs	Female	48	96	IU/L		
17 yrs	< 19 yrs	Male	59	168	IU/L		
19 yrs	150 yrs	Male	43	115	IU/L		
19 yrs	< 50 yrs	Female	33	98	IU/L		
50 yrs	150 yrs	Female	43	115	IU/L		



Test Orderable	Alkaline Phosphatase Isoenzymes
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Alpha 1 Acid Glycoprotein
Synonym(s)	Orosomucoid
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2 mL
Special Handling Requirements	Overnight fast preferable
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Alpha Fetoprotein Tumour Marker
Synonym(s)	AFP
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 Hours
STAT Turnaround Time	2 hours

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<4 months	Both	28	>2478	kIU/L			
4 months	<9 months	Both	1	94	kIU/L			
9 months	<2.5 years	Both	1	33	kIU/L			
2.5 months	<19 years	Both	0	4	kIU/L			
19 years	150 years	Female	0	6	kIU/L			
19 years	150 years	Male	1	7	kIU/L			

Note that no upper reference limit is quoted for AFP in the 0-4month age group.

This assay is performed using an immunoassay manufactured by Beckman Coulter, and results may not be comparable to those obtained from other manufacturer's methods.



Test Orderable	Alpha-1-Antitrypsin
Synonym(s)	A1AT, AAT
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Alpha-1-Antitrypsin phenotype
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2.5 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to Mayo Lab Guide								



Test Orderable	Aluminium Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Metal Free
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to Mayo Lab Guide								



Test Orderable	Amikacin Level (Once Daily Dosing Pre-Dose)
Synonym(s)	Amikin Lvl OD
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	150 yrs	Both		<3	mg/L		>5	

Sample to be taken pre-dose

- Children's and Adult Antibiotic Guidelines: <u>Sidra Portal Clinical_Guidelines</u>,
- <u>Lexicomp</u>



Test Orderable	Amikacin Level Peak
Synonym(s)	Amikin Lvl Peak
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	150 yrs	Both	20	35	mg/L		> 35	

Measurement of peak concentrations is not routinely recommended. If necessary this is taken 1 hour post-dose.



Test Orderable	Amikacin Level Random
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hours
STAT Turnaround Time	1 hour

Target level								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	150 yrs	Both			mg/L			

Note that all random values will be communicated.



Test Orderable	Amikacin Level Trough
Synonym(s)	Amikin Lvl Trough
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	2.5	10	mg/L		> 10

Sample to be taken pre-dose



Test Orderable	Amino Acids (Plasma, Quantitiative)
Synonym(s)	Plasma Amino Acids
Testing Location	Metabolic Biochemistry
Specimen Type(s)	Whole Blood
Container(s)	0-2 years: MAP EDTA
	2 – 150 years: EDTA
Volume (minimum)	MAP EDTA: 0.5 mL
	EDTA Tube: 1.0 mL
Patient Preparation	Fasting (overnight preferred, 4 hours minimum). Infants should
	be drawn just before next feeding (2-3 hours without total
	parenteral nutrition, if possible).
Special Handling Requirements	Transport immediately to the laboratory.
Routine Turnaround Time	The assay is performed twice a week (Monday & Wednesday) -
	results will be available within 24 hours post-analysis
Urgent Turnaround Time	Please contact the on-call Biochemist via AMION

	Reference Intervals - Alanine								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<2	Both	139	474	µmol/L				
2	17	Both	144	557	µmol/L				
≥18	150	Both	200	579	µmol/L				

Reference Intervals - Alloisoleucine								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	<2	Both	0	2	µmol/L			
2	17	Both	0	3	µmol/L			
≥18	150	Both	0	5	µmol/L			

Reference Intervals - Arginine									
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<2	Both	29	134	µmol/L				
2	17	Both	31	132	µmol/L				
≥18	150	Both	32	120	µmol/L				

Reference Intervals – Argininosuccinic Acid (ASA)										
Age From Age To Sex Lower Upper Units Critical Critical Limit Limit Limit Low High							Critical High			
0 150 Both 0 2 μmol/L										



	Reference Intervals - Asparagine											
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical					
			Limit	Limit		Low	High					
0	<2	Both	25	91	µmol/L							
2	17	Both	29	87	µmol/L							
≥18	150	Both	37	92	µmol/L							

	Reference Intervals – Aspartic Acid											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
0	<2	Both	2	20	µmol/L							
2	17	Both	0	11	µmol/L							
≥18	150	Both	0	7	µmol/L							

	Reference Intervals - Citrulline											
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical					
			Limit	Limit		Low	High					
0	<2	Both	9	38	µmol/L							
2	17	Both	11	45	µmol/L							
≥18	150	Both	17	46	µmol/L							

	Reference Intervals - Cystine											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
0	<2	Both	2	32	µmol/L							
2	17	Both	2	36	µmol/L							
≥18	150	Both	3	95	µmol/L							

	Reference Intervals – γ-Amino-Butyric Acid (GABA)											
Age From Age To Sex Lower Upper Units Critical C												
			Limit	Limit		Low	High					
0	<2	Both	0	4	µmol/L							
2	17	Both	0	3	µmol/L							
≥18	150	Both	0	2	µmol/L							



	Reference Intervals – Glutamic Acid											
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical					
			Limit	Limit		Low	High					
0	<2	Both	31	202	µmol/L							
2	17	Both	22	131	µmol/L							
≥18	150	Both	13	113	µmol/L							

	Reference Intervals - Glutamine											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
0	<2	Both	316	1020	µmol/L	2011						
2	17	Both	329	976	µmol/L							
≥18	150	Both	371	957	µmol/L							

	Reference Intervals - Glycine										
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical				
			Limit	Limit		Low	High				
0	<2	Both	111	426	µmol/L						
2	17	Both	149	417	µmol/L						
≥18	150	Both	126	490	µmol/L						

	Reference Intervals - Histidine										
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High				
0	<2	Both	10	116	µmol/L						
2	17	Both	12	132	µmol/L						
≥18	150	Both	39	123	µmol/L						

	Reference Intervals - Isoleucine										
Age From	Age From Age To Sex Lower Upper Units Critical										
			Limit	Limit		Low	High				
0	<2	Both	31	105	µmol/L						
2	17	Both	30	111	µmol/L						
≥18	150	Both	36	107	µmol/L						



	Reference Intervals - Leucine											
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical					
			Limit	Limit		Low	High					
0	<2	Both	48	175	µmol/L							
2	17	Both	51	196	µmol/L							
≥18	150	Both	68	183	µmol/L							

Reference Intervals - Lysine								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	<2	Both	49	204	µmol/L			
2	17	Both	59	240	µmol/L			
≥18	150	Both	103	255	µmol/L			

	Reference Intervals - Methionine							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<2	Both	11	35	µmol/L			
2	17	Both	11	37	µmol/L			
≥18	150	Both	4	44	µmol/L			

Reference Intervals - Ornithine								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	<2	Both	20	130	µmol/L			
2	17	Both	22	97	µmol/L			
≥18	150	Both	38	130	µmol/L			

	Reference Intervals - Phenylalanine							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<2	Both	28	80	µmol/L			
2	17	Both	30	95	µmol/L			
≥18	150	Both	35	80	µmol/L			



	Reference Intervals - Proline								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<2	Both	85	303	µmol/L				
2	17	Both	80	357	µmol/L				
≥18	150	Both	97	368	µmol/L				

Reference Intervals - Serine								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	<2	Both	69	271	µmol/L			
2	17	Both	71	208	µmol/L			
≥18	150	Both	63	187	µmol/L			

Reference Intervals - Taurine							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	<2	Both	37	177	µmol/L		
2	17	Both	38	153	µmol/L		
≥18	150	Both	42	156	µmol/L		

Reference Intervals - Threonine							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	<2	Both	47	237	µmol/L		
2	17	Both	58	195	µmol/L		
≥18	150	Both	85	231	µmol/L		

	Reference Intervals - Tryptophan							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<2	Both	17	75	µmol/L			
2	17	Both	23	80	µmol/L			
≥18	150	Both	29	77	µmol/L			



	Reference Intervals - Tyrosine							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<2	Both	26	115	µmol/L			
2	17	Both	31	106	µmol/L			
≥18	150	Both	31	90	µmol/L			

	Reference Intervals - Valine								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<2	Both	83	300	µmol/L				
2	17	Both	106	320	µmol/L				
≥18	150	Both	136	309	µmol/L				



Test Orderable	Amino Acid Quantitative Urine
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Amiodarone Level
Synonym(s)	Cordarone Lvl
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	3 mL
Special Handling Requirements	Must be taken at least 12hrs post dose
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Amitriptyline and Nortriptyline Levels
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	1.0 mL
Special Handling Requirements	Take 12+hrs post dose. Spin within 2hrs
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Ammonia Level
Synonym(s)	NH3+ Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: Li Heparin
Volume (recommended)	Li Heparin Microtainer: 0.5 mL
	Li Heparin: 1.0 mL
Special Handling Requirements	Transport on ice to lab urgently
Routine Turnaround Time	1 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	<1 month	Both	0	99	umol/L		>149
1month	less than	Both	0	49	umol/L		>149
	17 years						
17yrs	150 yrs	Both	18	72	umol/L		>149



Test Orderable	Amphetamine Screen Urine
Synonym(s)	Urine Amphetamine Screen
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to HMC Lab Guide							



Test Orderable	Amylase Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-1/2y: Micro Li Hep Gel
	1/2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 15 days	Both	0	6	U/L		>29
15 d	< 13 weeks	Both	0	17	U/L		>84
13 wks	< 1yr	Both	0	43	U/L		>214
1 yr	< 19 yrs	Both	20	90	U/L		>449
19yrs	150 yrs	Both	22	80	U/L		>399



Test Orderable	Amylase Level 24 Hour Urine
Synonym(s)	24 Hour Urine Amylase Level, Urine 24 Hour Amylase Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to HMC Lab Guide							



Test Orderable	Amylase Level Body Fluid
Synonym(s)	Body Fluid Amylase Level
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Ascites Fluid, Pancreatic Fluid, Pleural Fluid, Peritoneal Fluid, Pericardial Fluid, Other (Enter as Order Comment), Bile Fluid, Bronchial Lavage Upper Lobe, Bronchial Lavage Lower Lobe, JP Abdomen Fluid, Peritoneal Dialysis Fluid, Synovial Fluid Right Side, Synovial Fluid Left Side, Thoracentesis Fluid, Wound Drain
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Amylase Level Urine
Synonym(s)	Urine Amylase Level
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Androstenedione
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Plain
	2y-150y: Plain
Volume (recommended)	Microtainer: 0.5 mL
	Plain: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Angiotensin Converting Enzyme
Synonym(s)	ACE
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Micro SST or SST
Volume (recommended)	2 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Anti-Mullerian Hormone
Synonym(s)	АМН
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	4 hours
Urgent Turnaround Time	N/A
STAT Turnaround Time	N/A

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	17 years	Male	107.9	1903.5	pmol/L		
0	<18 years	Female	0.0	24.2	pmol/L		
18 years	<26 years	Female	6.8	95.2	pmol/L		
26 years	<31 years	Female	1.2	52.7	pmol/L		
31 years	<36 years	Female	0.5	52.5	pmol/L		
36 years	<41 years	Female	0.2	51.0	pmol/L		
41 years	<46 years	Female	0.0	23.4	pmol/L		
46 years	150 years	Female	0.0	8.2	pmol/L		
18 years	150 years	Male	5.2	114.6	pmol/L		



Test Orderable	Aspartate Aminotransferase
Synonym(s)	AST
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	< 15 days	Both	34	166	IU/L		>450
15 d	< 1yr	Both	22	70	IU/L		>450
1 yr	< 7 yrs	Both	23	46	IU/L		>450
7 yrs	< 12 yrs	Both	20	38	IU/L		>450
12 yrs	< 19yrs	Female	15	28	IU/L		>450
12 yrs	< 19 yrs	Male	16	37	IU/L		>450
19yrs	150 yrs	Male		<50	IU/L		>450
19yrs	150 yrs	Female		<35	IU/L		>450



Test Orderable	Basic Metabolic Panel – with Glucose		
Synonym(s)	BMP		
Testing Location (if not Sidra)			
Specimen Type(s)	Blood		
Container(s)	0-2y: Micro Li Hep Gel AND Micro Fluoride		
	2y-150y: SST <u>and</u> Fluoride Oxalate		
Volume (recommended)	Microtainer: 1.5 mL in each tube		
	SST: 1.0 mL in each tube		
	Fluoride Oxalate 1.0 ml		
Special Handling Requirements			
Routine Turnaround Time	4 hours		
Urgent Turnaround Time	1 hour		
STAT Turnaround Time	1 hour		

Panel includes the following analytes:

Sodium, Chloride, Potassium, Total CO2, Urea, Creatinine, eGFR(if appropriate), Calcium

Glucose will only be performed if a Fluoride Oxalate sample is received

Please refer to individual analytes for reference intervals



Test Orderable	Benzodiazepine Screen Urine
Synonym(s)	Urine Benzodiazepine Screen
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	НМС
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Beta 2 Microglobulin Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Beta hCG Quantitative
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Lithium Heparin
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 years	150 years	Female	0	5	IU/L	N/A	N/A

This test has only been validated for use in pregnancy



Test Orderable	Beta-hydroxybutyrate Level
Synonym(s)	BOHB, Ketone
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: Li Heparin
Volume (recommended)	Microtainer: 0.5 mL
	Li Heparin: 1.0 mL
Special Handling Requirements	Transport to Lab urgently (<60 mins) <u>DO NOT CENTRIFUGE</u>
Routine Turnaround Time	1 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Blood Ketones mmol/L	Classification	Critical Values
Less than 0.6 mmol/L	Normal	
0.6 – 1.4 mmol/L	Mild ketonemia	
1.5 – 2.9 mmol/L	Moderate ketonemia	
3.0 mmol/L or above	Severe ketonemia	3.0 mmol/L or above



Test Orderable	Bile Acids Total
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST, alternate container: Micro Lithium heparin
	2y-150y: SST, alternate container: Lithium heparin
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hrs
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour



Test Orderable	Bilirubin Total
Synonym(s)	TBIL
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	<2 days	Both	4	267	umol/L		>179	
2 days	<3 days	Both	4	267	umol/L		>239	
3 days	<5 days	Both	4	267	umol/L		>299	
5 days	<15 days	Both	4	267	umol/L		>319	
15 days	<150 yrs	Both	5	21	umol/L		>319	



Test Orderable	Biotinidase Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Name	Body Fluid Crystal Analysis
Synonym(s)	Crystal Exam Body Fluid
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Fluid
Container(s)	0-150 years: Sterile Container
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Orderable	Bone Profile
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Panel includes the following analytes:

Total Calcium, Albumin, Adjusted Calcium, Phosphate, Alkaline Phosphatase

Please refer to individual analytes for reference intervals



Test Orderable	C1 Esterase Inhibitor
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	5 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Name	C3/C4 Complement	
Synonym(s)		
Testing Status	In-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole blood	
Container(s)	0-2 years: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling		
Clinical Information		

Reference Intervals C3								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 dava	11 F alarva	Dath			- /1	-		
0 days	<15 days	Both	0.57	1.16	g/L	N/A	N/A	
15 days	<1 yr	Both	0.58	1.49	g/L	N/A	N/A	
1 yr	<19 yrs	Both	0.85	1.42	g/L	N/A	N/A	
19 yrs	150 yrs	Both	0.9	1.8	g/L	N/A	N/A	

Reference Intervals C4								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 days	<1 yrs	Both	0.05	0.33	g/L	N/A	N/A	
1 yrs	<19 yrs	Both	0.12	0.41	g/L	N/A	N/A	
19 yrs	150 yrs	Both	0.1	0.4	g/L	N/A	N/A	



Test Orderable	CA 125
Synonym(s)	Cancer Antigen 125 (OV 125)
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From Age To Sex Lower Upper Units Critical Critica						Critical	
			Limit	Limit		Low	High
0 year	150 year	Female	0	35	kU/L	N/A	N/A

This assay is performed using an immunoassay manufactured by Beckman Coulter, and results may not be comparable to those obtained from other manufacturer's methods.



Test Orderable	CA 15-3
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: Li Heparin
Volume (recommended)	Microtainer: 0.5 mL
	Li Heparin: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	CA 19-9
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	НМС
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From Age To Sex Lower Upper Units Critical Critical							Critical	
			Limit	Limit		Low	High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Calcitonin Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	1.0 mL
Special Handling Requirements	Transport on ice to lab urgently
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Calcium Level 24 Hour Urine
Synonym(s)	24 Hour Urine Calcium Level, Urine 24 Hour Calcium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

	Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	18 yrs	Both	0	0.1	mmol /kg /			
					24hrs			
19yrs	150 yrs	Both	2.50	7.50	mmol/24			
					hrs			

Note pediatric reference values are per kilogram of patient weight.



Test Orderable	Calcium Level Total
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals									
Age From Age To Sex Lower Upper Units Critical Crit							Critical		
			Limit	Limit		Low	High		
0	<1yr	Both	2.17	2.74	mmol/L	< 1.80	>2.99		
1	<19yrs	Both	2.32	2.64	mmol/L	< 1.80	>2.99		
19yrs	150 yrs	Both	2.23	2.58	mmol/L	< 1.80	>2.99		



Test Orderable	Calcium Level Adjusted
Synonym(s)	Adjusted Calcium, Corrected Calcium
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2 y: Micro Li Hep Gel
	2 y -150 y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From Age To Sex Lower Upper Units Critical Criti							Critical	
			Limit	Limit		Low	High	
0	< 4 weeks	Both	2.3	2.9	mmol/L	< 1.80	>2.99	
4 weeks	< 1yr	Both	2.3	2.8	mmol/L	< 1.80	>2.99	
1 yr	150 yrs	Both	2.3	2.6	mmol/L	< 1.80	>2.99	



Test Orderable	Calcium Level Urine (Spot sample)
Synonym(s)	Urine Calcium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals							
Age From Age To Sex Lower Upper Units Critical Critical							
			Limit	Limit		Low	High
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Test Orderable	Calcium Creatinine Ratio – Urine (spot sample)
Synonym(s)	Urine calcium:creatinine ratio, CCR
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

	Reference Intervals									
Age From	Age To	Sex	Lower	Upper	Units	Critica	Critical			
			Limit	Limit		I Low	High			
0	< 1 year	Both	0	1.49	mmol/mmol					
1 year	< 2 yrs	Both	0	1.24	mmol/mmol					
2 yrs	<5 yrs	Both	0	0.99	mmol/mmol					
5 yrs	<10 yrs	Both	0	0.69	mmol/mmol					
10 yrs	<18 yrs	Both	0	0.59	mmol/mmol					
18 yrs	150 yrs	Both	0	0.39	mmol/mmol					



Test Orderable	Cannabinoid Screen Urine
Synonym(s)	Urine Cannabinoid Screen
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Carbamazepine Level
Synonym(s)	Tegretol Lvl
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	4	12	mg/L		>20

In routine monitoring, ideally collect the sample pre-dose.



Test Orderable	Carcinoembryonic Antigen
Synonym(s)	CEA
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Catecholamines Fractionated
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-2y: Spot Urine
	24 hour Urine Collection
Volume (recommended)	
Special Handling Requirements	
Routine Turnaround Time	Sendaway: Sendaway – Up to 2 Weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Catecholamines Fractionated 24 Hour Urine
Synonym(s)	24 Hour Urine Catecholamines Fractionated, Urine 24 Hour
	Catecholamines Fractionated
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age From Age To Sex Lower Upper Units Critical Critical							
			Limit	Limit		Low	High	
	Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Catecholamines Fractionated Urine (Spot urine)
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Ceruloplasmin
Synonym(s)	Caeruloplasmin
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Chloride Level
Synonym(s)	CI LvI
Testing Location (if not Sidra)	Sidra
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age From Age To Sex Lower Upper Units Crit							
			Limit	Limit		Low	High	
0	< 19 yrs	Both	95	108	mmol/L			
19yrs	150 yrs	Both	95	108	mmol/L			



Test Orderable	Chloride Level 24 Hour Urine
Synonym(s)	24 Hour Urine Chloride Level, Cl Level 24 Hour Urine, Urine 24
	Hour Chloride Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 yrs	1 yr	Both	2	10	mmol/24hrs			
2 yrs	5 yrs	Both	15	40	mmol/24hrs			
6 yrs	10 yrs	Both	20	110	mmol/24hrs			
10 yrs	14 yrs	Both	35	175	mmol/24hrs			
19 yrs	150 yrs	Both	110	250	mmol/24hrs			



Test Orderable	Chloride Level Urine
Synonym(s)	Cl Level Urine, Urine Chloride Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
NA								



Test Orderable	Cholesterol Total
Synonym(s)	Total Chol
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 15 days	Male	0.9	3.2	mmol/L		
0	< 15 days	Female	1.2	3.4	mmol/L		
15 d	< 1yr	Both	1.7	6.7	mmol/L		
1 yr	< 19 yrs	Both	3.1	5.9	mmol/L		

Note that adult reference values are not given as the results should form part of a cardiovascular risk assessment which includes other risk factors.



Test Orderable	Citrate Level 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Citrate Level Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Clozapine Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Cocaine Screen Urine
Synonym(s)	Urine Cocaine Screen
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Comprehensie Metabolic Panel – (with Glucose)			
Synonym(s)	СМР			
Testing Location (if not Sidra)				
Specimen Type(s)	Blood			
Container(s)	0-2y: Micro Li Hep Gel AND Micro Fluoride			
	2y-150y: SST <u>and</u> Fluoride Oxalate			
Volume (recommended)	Microtainer: minumum 1 mL in each tube			
	SST: minimum 1 mL in each tube			
Special Handling Requirements				
Routine Turnaround Time	4 hours			
Urgent Turnaround Time	1 hour			
STAT Turnaround Time	1 hour			

Panel includes the following analytes:

Sodium, Chloride, Potassium, Total CO2, Urea, Creatinine, eGFR(if appropriate), Calcium, Total Protein, Albumin, Total Bilirubin, AST, ALT, ALP

Glucose will only be performed if a Fluoride Oxalate sample is received

Please refer to individual analytes for reference intervals



Test Orderable	Conjugated Bilirubin
Synonym(s)	Direct Bilirubin, DBIL
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2 y: Micro Li Hep Gel
	2 y-150 y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals									
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	< 15 days	Both	4	9	µmol/L				
15 d	< 1yr	Both	0	4	µmol/L				
1 yr	< 9 yrs	Both	0	2	µmol/L				
9 yrs	< 13 yrs	Both	0	3	µmol/L				
13 yrs	< 19 yrs	Both	1	5	µmol/L				
19 yrs	150 yrs	Both	0	3	µmol/L				



Test Orderable	Copper Level
Synonym(s)	Cu Lvl
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Serum
Volume (recommended)	3 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Cortisol Free 24 Hour Urine
Synonym(s)	Urine Cortisol 24 Hour
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	Refigerate during collection. Send Lab in24hr
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Cortisol Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

	Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
0 months	<3 months	Both (Random)	31	519	nmol/L	N/A	N/A			
3 months	<1 years	Both (Random)	73	634	nmol/L	N/A	N/A			
1 years	<13 years	Both (Random)	60	353	nmol/L	N/A	N/A			
13 years	<16 years	Both (Random)	84	472	nmol/L	N/A	N/A			
16 years	<19 years	Both (Random)	104	535	nmol/L	N/A	N/A			
19 years	150 years	Both (Random)			nmol/L	N/A	N/A			
19 years	150 years	Both (AM)	185	624	nmol/L	N/A	N/A			
19 years	150 years	Both (PM)	0	276	nmol/L	N/A	N/A			

Cortisol AM sample: 185 - 624 nmol/L

Cortisol PM sample: 0 - 276 nmol/L



Test Orderable	C-Peptide
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals									
Ag	e From	ŀ	Age To	Sex	Lower Limit	Upper Limit	Units		
0	year	<15	days	Both	3.3		umol/L		
15	days	<6	months	Both	0.1	8.7	umol/L		
6	months	<1	year	Both	0.1	1.2	umol/L		
1	year	<6	years	Both	0.1	1.0	umol/L		
6	years	<9	years	Both	0.1	2.6	umol/L		
9	years	<13	years	Both	0.4	5.6	umol/L		
13	years	<16	years	Female	1.0	9.1	umol/L		
13	years	<16	years	Male	1.8	11.3	umol/L		
16	years	<19	years	Female	2.0	16.1	umol/L		
16	years	<19	years	Male	3.1	16.6	umol/L		
19	years	<21	years	Female	1.4	8.7	umol/L		
19	years	<21	years	Male	0.7	14.6	umol/L		
21	years	<31	years	Female	0.5	10.6	umol/L		
21	years	<31	years	Male	2.3	18.7	umol/L		
31	years	<41	years	Female	0.6	7.2	umol/L		
31	years	<41	years	Male	2.9	12.6	umol/L		
41	years	<51	years	Female	0.5	6.3	umol/L		
41	years	<51	years	Male	1.9	13.4	umol/L		
51	years	<61	years	Female	0.2	5.1	umol/L		
51	years	<61	years	Male	1.0	8.5	umol/L		
61	years	<71	years	Female	0.3	3.6	umol/L		
61	years	<71	years	Male	0.7	6.6	umol/L		
71	years	150	years	Female	0.2	4.8	umol/L		
71	years	150	years	Male	0.1	6.9	umol/L		



	Reference Intervals										
Age	e From	Age To		Sex	Lower Limit	Upper Limit	Units				
0	year	<10	years	Both	83	1311	pmol/L				
10	years	<15	years	Both	132	2711	pmol/L				
15	years	<20	years	Male	181	1728	pmol/L				
15	years	<20	years	Female	181	2269	pmol/L				
20	years	150	years	Both	230	1041	pmol/L				



Test Orderable	C-Reactive Protein
Synonym(s)	CRP
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0 yrs	150 yrs	Both	0	<7.5	mg/L			



Test Orderable	Creatine Kinase
Synonym(s)	СК, СРК
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	<1 yr	Both	None quoted				>4999		
1yr	<5yr	Male	45	302	IU/L		>4999		
1yr	<5yr	Female	38	223	IU/L		>4999		
5yr	<10yr	Male	60	293	IU/L		>4999		
5yr	<10yr	Female	49	206	IU/L		>4999		
10yr	<15yr	Male	42	278	IU/L		>4999		
10yr	<15yr	Female	31	186	IU/L		>4999		
15 yrs	150 yrs	Male		≤ 187	IU/L		>4999		
15 yrs	150 yrs	Female		≤ 158	IU/L		>4999		

Note that no reliable reference intervals for children <1 year have been obtained for this assay.



Test Orderable	Creatinine 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	

			Referenc	e Intervals			
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	3yrs		0.09	0.18			
4	5 yrs		0.10	0.20			
6 yrs	8 yrs	Male	0.12	0.22			
9 yrs	13 yrs	-	0.11	0.25			
14 yrs	18 yrs		0.12	0.29	mmol/kg/		
0	3yrs		0.08	0.18	24hrs		
4	5 yrs		0.09	0.19			
6 yrs	8 yrs	Female	0.10	0.22			
9 yrs	13 yrs		0.10	0.24			
14 yrs	18 yrs		0.13	0.24			
19yrs	150 yrs	Male	5	16	mmol/		
19yrs	150 yrs	Female	9	18	24hrs		

Note pediatric reference values are per kilogram of patient weight.



Test Orderable	Creatinine Level
Synonym(s)	eGFR - Adult
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	< 14 days	Both	32	85	umol/L		>199		
15 d	< 2 yrs	Both	13	35	umol/L		>199		
2 yrs	< 5 yrs	Both	22	41	umol/L		>199		
5 yrs	< 12 yrs	Both	30	57	umol/L		>199		
12 yrs	< 15 yrs	Both	43	75	umol/L		>199		
15 yrs	< 19 yrs	Male	58	99	umol/L		>199		
15 yrs	< 19 yrs	Female	46	77	umol/L		>199		
19yrs	< 150 yrs	Male	59	104	umol/L		> 349		
19yrs	< 150 yrs	Female	45	85	umol/L		> 349		



Test Orderable	Creatinine Level Urine
Synonym(s)	Urine Creatinine
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
			None	stated				



Test Orderable	CSF Glucose
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	CSF
Container(s)	Sterile Container
Volume (recommended)	0.5 mL
Special Handling Requirements	
Routine Turnaround Time	
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals CSF Glucose									
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<1 month	Both	1.9	5.5	mmol/L				
1 month	<2 months	Both	1.7	5.1	mmol/L				
2 months	<6 months	Both	1.9	4.9	mmol/L				
6 months	<12 months	Both	2.4	4.3	mmol/L				
1 year	<18 years	Both	2.5	4.2	mmol/L				
18 years	150 years	Both	2.8	4.4	mmol/L				

Note that all CSF glucose results are communicated.

	Reference Intervals CSF : Plasma Glucose Ratio								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<1 month	Both	0.42	1.1					
1 month	<2 months	Both	0.36	1.2					
2 months	<6 months	Both	0.39	1.1					
6 months	<12 months	Both	0.44	1.05					
1 year	<18 years	Both	0.45	0.85					
18 years	150 years	Both	0.46	0.88					



Test Orderable	Cyclosporine Level
Synonym(s)	Ciclosporine, Cyclosporin
Testing Location (if not Sidra)	SIDRA
Specimen Type(s)	Blood
Container(s)	EDTA
Volume (recommended)	0.5 mL
Special Handling Requirements	
Routine Turnaround Time	48-72 Hours
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Units Critical Crit Low Hig						
All ages male and female												
Toxic effec	C C	reported at o	00 – 300 mcg/ concentration									
drugs (tacr everolimus specimens the next do if analysis	olimus, cyclo s), it is advisa s immediately ose i.e. a trou is indicated c	sporine, sirol ble to collect	blood ninistration of vever, ted toxicity,									
Sample an	alyzed using	Tandem Mass	s Spectrometr	γ								



Test Orderable	Cystatin C
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
Please refer to Mayo Lab Guide												



Test Orderable	Cystine 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container (24 hour urine container)
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
	Please refer to <u>HMC Lab Guide</u>											



Test Orderable	Cystine Urine
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals											
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High					
	Please refer to <u>HMC Lab Guide</u>											



Test Orderable	Dehydroepiandrosterone Sulphate
Synonym(s)	DHEAS
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals										
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
Day 0	<15 days	Both	3.3	N/A	μmol/L					
Day 15	<6 months	Both	0.1	8.7	µmol/L					
6 months	<1 year	Both	0.1	1.2	µmol/L					
1 year	<6 years	Both	0.1	1	µmol/L					
6 years	<9 years	Both	0.1	2.6	µmol/L					
9 years	<13 years	Both	0.4	5.6	μmol/L					
13 years	<16 years	Female	1	9.1	µmol/L					
13 years	<16 years	Male	1.8	11.3	µmol/L					
16 years	<19 years	Female	2	16.1	µmol/L					
16 years	<19 years	Male	3.1	16.6	µmol/L					
19 years	<21 years	Female	1.4	8.7	µmol/L					
16 years	<21 years	Male	0.7	14.6	µmol/L					
21 years	<31 years	Female	0.5	10.6	µmol/L					
21 years	<31 years	Male	2.3	18.7	µmol/L					
31 years	<41 years	Female	0.6	7.2	µmol/L					
31 years	<41 years	Male	2.9	12.6	µmol/L					
41 years	<51 years	Female	0.5	6.3	µmol/L					
41 years	<51 years	Male	1.9	13.4	µmol/L					
51 years	<61 years	Female	0.2	5.1	µmol/L					
51 years	<61 years	Male	1	8.5	µmol/L					
61 years	<71 years	Female	0.3	3.6	µmol/L					
61 years	<71 years	Male	0.7	6.6	µmol/L					



71 yea	irs	150 y	ears	Femal	le	0.2		4.8	}	μma	ol/L			
71 yea	irs	150 y	ears	Male	è	0.1		6.9)	μma	ol/L			
	Reference Intervals Age From Age To Sex Lower Upper Units										Inite			
Age	FIOM			Age	10			Sex		nit	-	mit	, i	Jins
0	year		<15		da	iys	Bot	:h	3.3				um	ol/L
15	days		<6		m	onths	Bot	:h	0.1		8.7		um	ol/L
6	mont	ths	<1		ye	ar	Bot	:h	0.1		1.2		um	ol/L
1	year		<6		ye	ars	Bot	:h	0.1		1.0		um	ol/L
6	years	5	<9		ye	ars	Bot	:h	0.1		2.6		um	ol/L
9	years	5	<13		ye	ars	Bot	:h	0.4		5.6			ol/L
13	years	5	<16		ye	ars	Fer	nale	1.0		9.1			ol/L
13	years	5	<16		ye	ars	Ma	le	1.8		11.3			ol/L
16	years	5	<19		ye	ears	Fer	nale	2.0		16.1			ol/L
16	years	5	<19		ye	ears	Ma	le	3.1		16.6			ol/L
19	years	5	<21		ye	ars	Fer	nale	nale 1.4		8.7			ol/L
19	years	5	<21		ye	ars	Ma	le	0.7		14.6			ol/L
21	years	5	<31		years		Fer	male 0.5			10.6			ol/L
21	years	5	<31		years		Ma	1ale 2.3		18.7			um	ol/L
31	years	5	<41		years		Fer	emale 0.6		7.2		um	ol/L	
31	years	5	<41		years		Male 2.9 Female 0.5		12.6			um	ol/L	
41	years	5	<51	year				Female			6.3		um	ol/L
41	years	5	<51	yea		ears	Ma	le	1.9		13.4			ol/L
51	years	5	<61	years		ars Female		nale 0.2		5.1			ol/L	
51	years	5	<61		ye	ars	Male 1.0		1.0	8.5				ol/L
61	years	5	<71		ye	ears	Fer	nale	0.3		3.6		um	ol/L
61	years	5	<71		ye	ars	Ma		0.7		6.6			ol/L
71	years	5	150		ye	ars	Fer	nale	0.2 4.		4.8			ol/L
71	years	5	150		ye	ars	Ma		0.1		6.9		um	ol/L
Age Fro	om	Age	То	Sex		Reference Lower		tervals Upper l	imit	Un	ite	Critic		Critical
Agein	0111	750	10	Jex		Limit		Opper	Liiiiit	011	11.5	Lov		High
Day (Day 0 <15 da		lays	Both		3.3		N/A	4	μma	ol/L			
Day 1	Day 15 <6 mont		nths	Both		0.1		8.7	,	μma	ol/L			
6 mont	ths	<1 year		Both		0.1		1.2		μma	ol/L			
1 yea	r	<6 years		Both		0.1		1	_	μmo	ol/L			
6 yea	rs	<9 years		Both		0.1		2.6	;	μma	ol/L			
9 yea	rs	<13 y	ears	Both		0.4		5.6	j	μma	ol/L			
13 yea	ars	<16 y	ears	Femal	le	1		9.1		μma	ol/L			



13 years	<16 years	Male	1.8	11.3	µmol/L	
16 years	<19 years	Female	2	16.1	µmol/L	
16 years	<19 years	Male	3.1	16.6	µmol/L	
19 years	<21 years	Female	1.4	8.7	µmol/L	
16 years	<21 years	Male	0.7	14.6	µmol/L	
21 years	<31 years	Female	0.5	10.6	µmol/L	
21 years	<31 years	Male	2.3	18.7	µmol/L	
31 years	<41 years	Female	0.6	7.2	µmol/L	
31 years	<41 years	Male	2.9	12.6	µmol/L	
41 years	<51 years	Female	0.5	6.3	µmol/L	
41 years	<51 years	Male	1.9	13.4	µmol/L	
51 years	<61 years	Female	0.2	5.1	µmol/L	
51 years	<61 years	Male	1	8.5	µmol/L	
61 years	<71 years	Female	0.3	3.6	µmol/L	
61 years	<71 years	Male	0.7	6.6	µmol/L	
71 years	150 years	Female	0.2	4.8	µmol/L	
71 years	150 years	Male	0.1	6.9	µmol/L	



Test Orderable	Digoxin Level
Synonym(s)	Dig Level
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

	Target level						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Dihydrotestosterone
Synonym(s)	DHT
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	eGFR (Schwartz Paed)
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	16 years		See note				
			below				

Requires entry of patient height during requesting. Limited to children below 16 years (CKD-EPI equation used after that age).



Test Orderable	Electrolytes and Renal Profile
Synonym(s)	Lytes, Urea and Electrolytes
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Panel includes the following analytes:

Sodium, Chloride, Potassium, Total CO2, Urea, Creatinine, eGFR (if appropriate),

Please refer to individual analytes for reference intervals



Test Orderable	Estradiol Level (Sensitive)
Synonym(s)	Oestradiol, High Sensitivity Estradiol
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 year	<1 years	Both	0	140	pmol/L		
1 year	<12 years	Female	0	59	pmol/L		
1 year	<12 years	Male	0	55	pmol/L		
12 years	<19 years	Female	0	720	pmol/L		
12 years	<19 years	Male	0	128	pmol/L		
19 years	150 years	Female	92	422	pmol/L		

The estradiol reference interval for females 12 to <19 years also includes ovulating women, at all stages of the menstrual cycle.

The estradiol reference interval for females > 19 years applies to the mid-follicular phase only.

Please note: The estradiol assay is susceptible to interference from some synthetic estrogen medications, the direction (falsely high or low) or extent of which is not easy to predict. As with all laboratory assays, if the result obtained does not fit the clinical picture, please contact the on-call Biochemist (via AMION) at the very earliest opportunity



Test Orderable	Ethanol Level
Synonym(s)	Alcohol Level, Alcohol Lvl, EtOH Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: Fluoride Oxalate
Volume (recommended)	1 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
					mg/L		>2500

Take special note of the reporting units



Test Orderable	Ethosuximide
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Fatty Acid Profile
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Fecal alpha-1-antitrypsin
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Stool
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Fecal Chymotrypsin
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Stool
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Fecal Elastase
Synonym(s)	Faecal Elastase, Stool Elastase
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Stool
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Fecal Fat Quantitative
Synonym(s)	Faecal Fat Quantitative
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Stool
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	2 Weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Ferritin Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

	Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
0 days	<15 days	Both	40	540	ug/L	N/A	N/A			
15 days	<6 months	Both	15	375	ug/L	N/A	N/A			
6 months	<1 years	Both	13	192	ug/L	N/A	N/A			
1 years	<16 years	Both	10	56	ug/L	N/A	N/A			
16 years	<19 years	Female	3	75	ug/L	N/A	N/A			
16 years	<19 years	Male	19	102	ug/L	N/A	N/A			
19 years	150 years	Female	11	307	ug/L	N/A	N/A			
19 years	150 years	Male	24	336	ug/L	N/A	N/A			



Test Orderable	Folate Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

Reference Intervals									
Age From	Age To	Sex	Sex Lower Upper Units Critical Critical						
			Limit	Limit		Low	High		
0 year	150 years	Both	See comme	ent and rule	nmol/L				

'Folate deficiency is associated with a serum concentration <6.8 nmol/L. Between 6.8 and 10nmol/L is an indeterminate range.'



Test Orderable	Free Androgen Index
Synonym(s)	FAI, Free Testosterone
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	N/A
STAT Turnaround Time	N/A

Panel includes the following analytes:

Testosterone, Sex Hormone binding globulin (SHBG) from which the index will be calculated using the following formula:

FAI = Testosterone/SHBG x 100

Please refer to individual analytes for specific reference ranges, but for FAI see the following:

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	<1 year	Both	0	6.6	%				
1 year	<12 years	Both	0	1.2	%				
12 years	<15 years	Male	0.6	47.0	%				
15 years	<19 years	Male	7.8	81.2	%				
19 years	<50 years	Male	24.3	110.2	%				
50 years	150 years	Male	None readily available						
12 years	<15 years	Female	0.5	7.0	%				
15 years	<19 years	Female	1.3	11.5	%				
19 years	<47 years	Female	0.7	10.9	%				
47 years	<92 years	Female	0.2	6.8	%				
92 years	150 years	Female	None readily available		%				



Test Orderable	Free T3
Synonym(s)	Free Triiodothyronine, FT3
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

	Reference Intervals									
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical			
			Limit	Limit		Low	High			
0 years	1 year	Both	4.3	6.9	pmol/L	N/A	N/A			
1 year	15 year	Both	4.0	6.2	pmol/L	N/A	N/A			
15 years	19 years	Female	3.5	5.3	pmol/L	N/A	N/A			
15 years	19 years	Male	3.8	5.7	pmol/L	N/A	N/A			
19 years	150 years	Both	3.8	6.0	pmol/L	N/A	N/A			



Test Orderable	Free T4
Synonym(s)	Free Thyroxine, FT4
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

	Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
Day 0 (Birth Day)	Day 7 (1 Week)	Both	12.1	56.5	pmol/L					
Day 7 (1 Week)	1 Month	Both	12.1	52.5	pmol/L	N/A	N/A			
1 Month	3 years	Both	9.5	17.8	pmol/L	N/A	N/A			
3 years	19 years	Both	8.1	14.9	pmol/L	N/A	N/A			
19 years	150 years	Both	8.4	19.1	pmol/L	N/A	N/A			

Pregnancy Related Reference Intervals							
Trimester	Upper	Units	Critical	Critical			
	Limit	Limit		Low	High		
1 st Trimester	6.7	14.1	pmol/L				
2 nd Trimester	5.8	12.7	pmol/L				
3 rd Trimester	6.1	12.2	pmol/L				



Test Orderable	Fructosamine
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
	Please refer to <u>Mayo Lab Guide</u>							



Test Orderable	FSH Level
Synonym(s)	Follicle Stimulating Hormone Level, Follitropin
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	STAT TAT: 2 h

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 year	<1 year	Female	0.2	15.7	IU/L	N/A	N/A	
0 year	<1 year	Male	0.1	4.0	IU/L	N/A	N/A	
1 years	<9 years	Female	0.6	6.4	IU/L	N/A	N/A	
1 years	<9 years	Male	0.2	2.3	IU/L	N/A	N/A	
9 years	<12 years	Female	0.9	7.8	IU/L	N/A	N/A	
9 years	<12 years	Male	0.6	5.0	IU/L	N/A	N/A	
12 years	<19 years	Female	0.6	10.2	IU/L	N/A	N/A	
12 years	<19 years	Male	1.3	7.4	IU/L	N/A	N/A	
19 years	150 years	Male	1.3	19.3	IU/L	N/A	N/A	
19 years	150 years	Female	3.85	8.78	IU/L	N/A	N/A	

FSH reference interval for females greater than 19 years applies to mid-follicular phase only.



Test Orderable	Gamma Glutamyl Transferase
Synonym(s)	GGT
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	<15d	Both	20	195	IU/L				
15d	<1	Both	7	113	IU/L				
1	<11	Both	5	14	IU/L				
11	<19	Both	6	18	IU/L				
19yrs	< 150 yrs	MALE		<55	IU/L				
19yrs	< 150 yrs	FEMALE		<38					



Test Orderable	Gastrin Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Ideally fasting
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Gentamicin Level (Once Daily Dosing Pre-dose)
Synonym(s)	Gentamycin Lvl Once Daily Pre
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both		1	mg/L		> 1

Sample to be taken pre-dose

- Children's and Adult Antibiotic Guidelines: <u>Sidra Portal Clinical_Guidelines</u>
- <u>Lexicomp</u>



Test Orderable	Gentamicin Level Peak
Synonym(s)	Garamycin Lvl Peak
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	5	10	mg/L		> 10

Measurement of peak concentrations is not routinely recommended. If necessary this is taken 1 hour post-dose.

- Children's and Adult Antibiotic Guidelines: <u>Sidra Portal Clinical_Guidelines</u>
- <u>Lexicomp</u>



Test Orderable	Gentamicin Level Trough
Synonym(s)	Garamycin Lvl Trough
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	0.6	2	mg/L		> 2

Sample to be taken pre-dose

- Children's and Adult Antibiotic Guidelines: <u>Sidra Portal Clinical_Guidelines</u>
- <u>Lexicomp</u>



Test Orderable	Gentamicin Level Random
Synonym(s)	Gentamycin Lvl
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Target level							
Age From						Critical High		
0	150 yrs	Both			mg/L			



Test Orderable	Glucose Fasting
Synonym(s)	Fasting Glucose
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Fluoride
	2y-150y: Fluoride Oxalate
Volume (recommended)	Microtainer: 0.5 mL
	Fluoride Oxalate: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals							
Age From Age To Sex Lower Upper Units Critical Critic								
			Limit	Limit		Low	High	
0	6 months	Both	3.9	6.0	mmol/L	2.6	14.9	
6 months	16 years	Both	3.9	6.0	mmol/L	2.6	14.9	



Test Orderable	Glucose Random
Synonym(s)	Random Glucose
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Fluoride
	2y-150y: Fluoride Oxalate
Volume (recommended)	Microtainer: 0.5 mL
	Fluoride Oxalate: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals							
Age From Age To Sex Lower Upper Units Critical								
			Limit	Limit		Low	High	
0	16 yrs	Both			mmol/L	2.6	19.9	
16 yrs	150 yrs	Both			mmol/L	2.6	19.9	



Test Orderable	Growth Hormone Level
Synonym(s)	GH
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0 year	<3 months	Both	0.8	33.54	µg/L			
3 months	<2 years	Both	0.14	6.27	µg/L			
2 years	<7 years	Both	0.05	5.11	µg/L			
7 years	<12 years	Both	0.02	4.76	µg/L			
12 years	<14 years	Both	0.01	6.2	µg/L			
14 years	<19 years	Female	0.03	5.22	µg/L			
14 years	<19 years	Male	0.02	3.81	µg/L			
19 years	150 years	Female	0.01	3.61	µg/L			
19 years	150 years	Male	0.01	0.97	μg/L			



Test Orderable	Haptoglobin
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
	Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Hemoglobin A1c
Synonym(s)	Glycated Hemoglobin, HbA1C, HgbA1C
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: MAP / Microtainer EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Routine TAT: 2 d
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High

None provided as differing thresholds are used for diagnosis and different targets for monitoring.

HbA1c values >120mmol/mol (13%) where there are no previous results will be telephoned



Test Orderable	Homocysteine Total
Synonym(s)	НСТХ
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: MAP / Microtainer EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.4 mL
	EDTA: 2.0 mL
Special Handling Requirements	Send on ice. Separate within 1hr of draw
Routine Turnaround Time	3 Hours
Urgent Turnaround Time	N/A
STAT Turnaround Time	N/A

Reference Intervals								
Age From Age To Sex Lower Upper Units Critical Critical								
			Limit	Limit		Low	High	
0	69 yrs	Both	3	15	mcmol/L	N/A	N/A	
70 yrs	150 yrs	Both	3	20	mcmol/L	N/A	N/A	



Test Orderable	Homovanillic Acid 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Homovanillic Acid Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	IGF Binding Protein-3
Synonym(s)	Insulin Like Growth Factor Binding Protein 3
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Name	Immunoglobulins Total	
Synonym(s)	lgA, lgG,lgM	
Testing Status	In-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole blood	
Container(s)	0-2 years: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling		
Clinical Information		

	Reference Intervals IgA							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0 days	<1yrs	Both	0.01	0.3	g/L			
1 yrs	<3 yrs	Both	0.01	0.9	g/L			
3 yrs	<6 yrs	Both	0.3	1.5	g/L			
6 yrs	<14 yrs	Both	0.5	2.3	g/L			
14 yrs	<19 yrs	Both	0.5	3	g/L			
19 yrs	150 yrs	Both	0.7	4	g/L			

	Reference Intervals IgG						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 days	<15 days	Both	3	13	g/L		
15 days	<1 yrs	Both	1.1	6.5	g/L		
1 yrs	<4 yrs	Both	3	10	g/L		
4 yrs	<10 yrs	Both	5.1	12.6	g/L		
10 yrs	<19 yrs	Both	6.2	14.2	g/L		
19 yrs	150 yrs	Both	7	16	g/L		

	Reference Intervals IgM						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 days	<15 days	Both	0.2	0.4	g/L		
15 days	<13 wks	Both	0.2	0.7	g/L		
13 wks	<1 yrs	Both	0.3	0.9	g/L		
1 yrs	<19 yrs	Female	0.5	1.7	g/L		
1 yrs	<19 yrs	Male	0.4	1.3	g/L		
19 yrs	150 yrs	Both	0.4	2.3	g/L		



Test Orderable	Infliximab Concentration
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Insulin Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab within one hour
Routine Turnaround Time	4 Hours
Urgent Turnaround Time	2 Hours
STAT Turnaround Time	2 Hours

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	<2	Both	6	216	pmol/L		
2	<10	Both	11	220	pmol/L		
10	<19	Both	20	571	pmol/L		
19	150	Both	13	161	pmol/L		



Test Orderable	Insulin-Like Growth Factor I
Synonym(s)	IGF-1, Somatomedin C
Testing Location (if not Sidra)	
Specimen Type(s)	Blood (serum)
Container(s)	0-2y: 0.6ml Micro SST
	2y-150y: 4.0ml SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	Send to lab immediately.
Routine Turnaround Time	72 hours
Urgent Turnaround Time	N/A
STAT Turnaround Time	N/A

			Reference	e Intervals			
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 Minutes	1 Years	Male	1.4	13.1	nmol/L		
1 Years	2 Years	Male	1.6	15.7	nmol/L		
2 Years	3 Years	Male	1.7	18.7	nmol/L		
3 Years	4 Years	Male	1.8	22.1	nmol/L		
4 Years	5 Years	Male	2.0	26.1	nmol/L		
5 Years	6 Years	Male	2.1	30.5	nmol/L		
6 Years	7 Years	Male	2.2	35.2	nmol/L		
7 Years	8 Years	Male	2.4	40.1	nmol/L		
8 Years	9 Years	Male	2.6	45.5	nmol/L		
9 Years	10 Years	Male	3.0	50.5	nmol/L		
10 Years	11 Years	Male	3.8	55.4	nmol/L		
11 Years	12 Years	Male	4.8	60.0	nmol/L		
12 Years	13 Years	Male	6.4	63.7	nmol/L		
13 Years	14 Years	Male	8.4	66.4	nmol/L		
14 Years	15 Years	Male	10.9	67.9	nmol/L		
15 Years	16 Years	Male	13.3	68.0	nmol/L		
16 Years	17 Years	Male	15.6	66.8	nmol/L		
17 Years	18 Years	Male	17.1	64.1	nmol/L		
18 Years	19 Years	Male	17.9	60.3	nmol/L		
19 Years	20 Years	Male	17.9	56.0	nmol/L		
20 Years	21 Years	Male	17.4	51.6	nmol/L		
21 Years	22 Years	Male	16.6	47.6	nmol/L		
22 Years	23 Years	Male	15.7	44.2	nmol/L		
23 Years	24 Years	Male	14.6	41.3	nmol/L		



24 Years	25 Years	Male	13.7	39.0	nmol/L	
25 Years	35 Years	Male	11.0	32.0	nmol/L	
35 Years	45 Years	Male	11.0	31.0	nmol/L	
45 Years	55 Years	Male	9.0	29.0	nmol/L	
55 Years	65 Years	Male	7.0	27.0	nmol/L	
65 Years	75 Years	Male	4.0	31.0	nmol/L	
75 Years	150 Years	Male	2.4	25.0	nmol/L	
0 Minutes	1 Years	Female	1.4	17.1	nmol/L	
1 Years	2 Years	Female	1.4	19.1	nmol/L	
2 Years	3 Years	Female	1.4	21.6	nmol/L	
3 Years	4 Years	Female	1.7	24.4	nmol/L	
4 Years	5 Years	Female	2.0	28.2	nmol/L	
5 Years	6 Years	Female	2.5	32.8	nmol/L	
6 Years	7 Years	Female	3.1	38.3	nmol/L	
7 Years	8 Years	Female	3.9	44.7	nmol/L	
8 Years	9 Years	Female	5.1	51.8	nmol/L	
9 Years	10 Years	Female	6.4	59.0	nmol/L	
10 Years	11 Years	Female	8.1	65.9	nmol/L	
11 Years	12 Years	Female	9.9	71.8	nmol/L	
12 Years	13 Years	Female	11.8	76.0	nmol/L	
13 Years	14 Years	Female	13.6	77.9	nmol/L	
14 Years	15 Years	Female	15.0	77.3	nmol/L	
15 Years	16 Years	Female	15.8	73.7	nmol/L	
16 Years	17 Years	Female	15.9	68.5	nmol/L	
17 Years	18 Years	Female	15.7	62.6	nmol/L	
18 Years	19 Years	Female	15.3	57.0	nmol/L	
19 Years	20 Years	Female	14.8	52.2	nmol/L	
20 Years	21 Years	Female	14.3	48.6	nmol/L	
21 Years	22 Years	Female	14.0	45.9	nmol/L	
22 Years	23 Years	Female	13.7	44.1	nmol/L	
23 Years	24 Years	Female	13.5	42.6	nmol/L	
24 Years	25 Years	Female	13.3	41.4	nmol/L	
25 Years	35 Years	Female	12.0	38.0	nmol/L	
35 Years	45 Years	Female	10.0	35.0	nmol/L	
45 Years	55 Years	Female	7.5	31.0	nmol/L	
55 Years	65 Years	Female	5.5	31.0	nmol/L	
65 Years	75 Years	Female	3.5	30.0	nmol/L	
75 Years	150 Years	Female	2.5	27.0	nmol/L	



Test Orderable	Iron Total
Synonym(s)	Iron Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 yrs	< 14 yrs	Both	2.9	23.1	umol/L		
14 yrs	< 19 yrs	Male	6.2	30.3	umol/L		
14 yrs	< 19 yrs	Female	3.6	29.3	umol/L		
19yrs	150 yrs	Male	12.5	32.2	umol/L		
19yrs	150 yrs	Female	10.7	32.2	umol/L		



Test Orderable	Iron Profile
Synonym(s)	Iron Fe, Transferrin
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals - Iron								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0 yrs	< 14 yrs	Both	3.1	23.1	umol/L			
14 yrs	< 19 yrs	Male	5.8	30.2	umol/L			
14 yrs	< 19 yrs	Female	3.8	29.2	umol/L			
19yrs	150 yrs	Male	8.1	32.6	umol/L			
19yrs	150 yrs	Female	5	30.4	umol/L			

	Reference Intervals - Transferrin									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
0	< 9 wks	Both	1.12	2.3	g/L					
9 wks	< 1 yr	Both	1.15	3.28	g/L					
1yr	< 19 yrs	Both	2.26	3.41	g/L					
19 yrs	< 150 yrs	Male	1.8	3.3	g/L					
19 yrs	< 150 yrs	Female	1.9	3.8	g/L					



Test Orderable	Kappa Lambda, Free Light Chains Blood
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Kappa Lambda, Free Light Chains Urine
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
Please refer to <u>HMC Lab Guide</u>									



Test Orderable	Kidney Stone Analysis
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Stone
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
Please refer to Mayo Lab Guide									



Test Orderable	Lactate Dehydrogenase
Synonym(s)	LDH
Testing Location (if not Sidra)	
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Specimen Type(s)	Blood
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals									
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical			
			Limit	Limit		Low	High			
	< 15 days	Both	321	1264	IU/L					
15 d	< 1yr	Both	170	468	IU/L					
1 yr	< 10 yrs	Both	200	333	IU/L					
10 yrs	< 15 yrs	Male	177	294	IU/L					
10 yrs	< 15 yrs	Female	163	282	IU/L					
15 yrs	< 19 yrs	Both	136	260	IU/L					
19 yrs	150 yrs	Both	0	< 310	IU/L					



Test Orderable	Lactate Dehydrogenase Body Fluid
Synonym(s)	Body Fluid Lactate Dehydrogenase, LDH Body Fluid
Testing Location (if not Sidra)	
Specimen Type(s)	Ascites Fluid, Pancreatic Fluid, Pleural Fluid, Peritoneal Fluid, Pericardial Fluid, Other (Enter as Order Comment), Bile Fluid, Bronchial Lavage Upper Lobe, Bronchial Lavage Lower Lobe, JP Abdomen Fluid, Peritoneal Dialysis Fluid, Synovial Fluid Right Side, Synovial Fluid Left Side, Thoracentesis Fluid, Wound Drain
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
N/A								



Test Orderable	LACTATE CSF
Synonym(s)	CSF Lactate
Testing Location (if not Sidra)	
Specimen Type(s)	CSF
Container(s)	Sterile container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	<1 month	Both	0.9	2.5	mmol/L			
1 month	<18 years	Both	1.1	2.1	mmol/L			
18 years	150 years	Both	1.2	2.2	mmol/L			



Test Orderable	Lactic Acid Level
Synonym(s)	Lactate Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: Fluoride Oxalate
Volume (recommended)	2.0 mL
Special Handling Requirements	Send to lab immediately
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	150 yrs	Both	0.5	2.2	mmol/L		> 4.0	



Test Orderable	Lead Level
Synonym(s)	Pb Level
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Element EDTA tube (Navy Blue top)
Volume (recommended)	6mL
Special Handling Requirements	НМС
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
	Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Lipase Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hrs
Urgent Turnaround Time	1 hr
STAT Turnaround Time	1 hr

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	<1 YR	Both	0	8	IU/L		40		
1 yr	9 yrs	Both	5	31	IU/L		155		
10 yrs	19 yrs	Both	7	39	IU/L		195		
19 yrs	150 yrs	Both		<67	IU/L		330		



Test Orderable	Lipid Profile - Pediatric
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	N/A

Panel includes the following analytes:

Total Cholesterol, Triglycerides

Please refer to individual analytes for reference intervals



Test Orderable	Lipid Profile- Adult
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	SST
Volume (recommended)	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	N/A

Panel includes the following analytes:

Total Cholesterol, Triglycerides, HDL Cholesterol, LDL Cholesterol, Cholesterol:HDL ratio, Non-HDL Cholesterol

Please refer to individual analytes for any reference ranges



Test Orderable	Lithium Level
Synonym(s)	Li Lvl
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	SST
	Alternative Container : Plain Red Tube
Volume (recommended)	SST: 4.0 mL
	Red tube: 4.0mL
Special Handling Requirements	
Routine Turnaround Time	sendawy : up to 2 working days
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to HMC Lab Guide								



Test Orderable	Liver Function Profile
Synonym(s)	LFT
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Panel includes the following analytes:

Total Protein, Albumin, Total Bilirubin, AST, ALT, ALP, GGT

Please refer to individual analytes for reference ranges



Test Orderable	Luteinizing Hormone
Synonym(s)	LH
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 year	<1 year	Female	0.0	3.3	IU/L	N/A	N/A	
0 year	<1 year	Male	0.1	6.8	IU/L	N/A	N/A	
1 years	<5 years	Both	0.0	2.1	IU/L	N/A	N/A	
5 years	<10 years	Both	0.0	1.7	IU/L	N/A	N/A	
10 years	<14 years	Female	0.0	8.1	IU/L	N/A	N/A	
10 years	<14 years	Male	0.0	3.3	IU/L	N/A	N/A	
14 years	<19 years	Female	1.6	19.0	IU/L	N/A	N/A	
14 years	<19 years	Male	0.8	9.0	IU/L	N/A	N/A	
19 years	150 years	Male	1.2	8.6	IU/L	N/A	N/A	
19 years	150 years	Female	2.1	10.9	IU/L	N/A	N/A	

LH reference interval for females greater than 19 years applies to mid-follicular phase only



Test Orderable	Lysosomal and Peroxisomal Storage Disorders Screen
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood Spot
Container(s)	0-150 years: Filt Paper
Volume (recommended)	N/A
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Magnesium Level
Synonym(s)	Mg Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	< 15 days	Both	0.79	1.56	mmol/L	< 0.5	>2.0	
15 d	< 1 yr	Both	0.78	1.72	mmol/L	< 0.5	>3.0	
1yr	< 19 yrs	Both	0.83	1.13	mmol/L	< 0.5	>3.0	
19 yrs	< 150 yrs	Male	0.73	1.06	mmol/L	< 0.5	>3.0	
19 yrs	< 150 yrs	Female	0.77	1.03	mmol/L	< 0.5	>3.0	



Test Orderable	Magnesium Level Urine (spot sample)
Synonym(s)	Urine Mg Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	5 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour



Test Orderable	Manganese Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace element tube (metal free (no additive) or metal free (EDTA)).
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	Мауо
STAT Turnaround Time	

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>Mayo Lab Guide</u>								



Test Orderable	Metanephrines
Synonym(s)	Plasma Metanephrines
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-2y: Map EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to Mayo Lab Guide								



Test Orderable	Metanephrines 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Metanephrines Urine (Spot sample)
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Methemoglobin
Synonym(s)	Methaemoglobin
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA
	1/2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Methotrexate level
Synonym(s)	Methotrexate MTX
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hour
STAT Turnaround Time	2 hour

Target Range								
Age From Age To Sex Lower Upper Units Critical Critical Limit Limit Limit Low High							Critical High	
					umol/L			

Click on the link provided below to access the protocol on Sidra's Internal Portal. For external customers, please be in contact with the Pathology Department for assistance in regards to this Guideline.

- <u>Sidra Portal Clinical_Guidelines</u>
- <u>Lexicomp</u>
- Portal Oncology Link



Test Orderable	Miscellaneous Body Fluid
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Ascites Fluid, Pancreatic Fluid, Pleural Fluid, Peritoneal Fluid, Pericardial Fluid, Other (Enter as Order Comment), Bile Fluid, Bronchial Lavage Upper Lobe, Bronchial Lavage Lower Lobe, JP Abdomen Fluid, Peritoneal Dialysis Fluid, Synovial Fluid Right Side, Synovial Fluid Left Side, Thoracentesis Fluid, Wound Drain
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
						Critical High		
	N/A							



Test Orderable	Mycophenolic Acid Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Myoglobin
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	3 mL
Special Handling Requirements	НМС
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	NT-pro B-type Natriuretic Peptide
Synonym(s)	NT-proBNP, BNP
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Opiate Screen Urine
Synonym(s)	Urine Opiate Screen
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Organic Acids Screen Urine
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Osmolality Serum
Synonym(s)	Serum Osmolality
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	8 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0	150 yrs	Both	275	300	mOsm/kg H2O			



Test Orderable	Osmolality Urine
Synonym(s)	Urine Osmolality
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	8 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals								
Age From Age To Sex Lower Upper Units Critical Critical								
			Limit	Limit		Low	High	
0	150yrs	Both	50	1400	mOsm/kg			
					H2O			



Test Orderable	Osteocalcin
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2 mL
Special Handling Requirements	Patient requires to be fasting
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to Mayo Lab Guide								



Test Orderable	Oxalate 24 Hour Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Oxalate Urine (Spot sample)
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>HMC Lab Guide</u>								



Test Orderable	Pancreatic Polypeptide
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: ECZ EDTA
Volume (recommended)	3 mL
Special Handling Requirements	Patient needs to be fasting. Send on ice
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to Mayo Lab Guide								



Test Orderable	Parathyroid hormone Intact
Synonym(s)	PTH, Intact PTH
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical	
			Limit	Limit		Low	High	
0 year	<1 year	Both	0.8	6.1	pmol/L	N/A	N/A	
1 year	<8 years	Both	1.3	5.8	pmol/L	N/A	N/A	
8 years	<19 years	Both	1.3	7.5	pmol/L	N/A	N/A	
19 years	67 years	Both	1.3	9.3	pmol/L	N/A	N/A	



Test Orderable	Phenobarbital Level
Synonym(s)	Luminal Lvl
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Plain
	2y-150y: Plain
Volume (recommended)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 years	Both	10	40	mg/L		>60

In routine monitoring, a pre-dose (trough) level up to 1 hour before is preferred



Test Orderable	Phenytoin Level
Synonym(s)	Dilantin Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target level							
Age From Age To Sex Lower Upper Units Critical Critical							Critical
			Limit	Limit		Low	High
0	150 yrs	Both	5	20	mg/L		>24

In routine monitoring, a pre-dose (trough) level up to 1 hour before is preferred



Test Orderable	Phosphate Level
Synonym(s)	PO4 Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	< 15 days	Both	1.87	3.74	mmol/L	<0.7	>4.0		
15 d	< 1 yr	Both	1.52	2.92	mmol/L	<0.7	>4.0		
1yr	< 5 yrs	Both	1.40	2.33	mmol/L	<0.7	>4.0		
5 yrs	< 13 yrs	Both	1.28	1.98	mmol/L	<0.7	>4.0		
13 yrs	< 16yrs	Both	0.93	1.87	mmol/L	<0.7	>4.0		
16 yrs	< 19 yrs	Both	0.93	1.63	mmol/L	<0.7	>4.0		
19yrs	150 yrs	Both	0.81	1.45	mmol/L	<0.7	>4.0		



Test Orderable	Phosphate Level 24 Hour Urine
Synonym(s)	24 Hour Urine Phosphate Level, Urine 24 Hour Phosphate Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

		Refere	ence Interval	S	
Age From	Age To	Sex	Lower Limit	Upper Limit	Units
0	5 yrs	Male			mmol/kg/24hrs
2	6 yrs	Male	0.3	1.0	mmol/kg/24hrs
7	10 yrs	Male	0.25	0.9	mmol/kg/24hrs
11	14 yrs	Male	0.2	0.8	mmol/kg/24hrs
15	18 yrs	Male	0.15	0.7	mmol/kg/24hrs
0	5 yrs	Female			mmol/kg/24hrs
2	6 yrs	Female	0.3	1.1	mmol/kg/24hrs
7	10 yrs	Female	0.25	1.0	mmol/kg/24hrs
11	14 yrs	Female	0.2	0.7	mmol/kg/24hrs
15	18 yrs	Female	0.15	0.55	mmol/kg/24hrs
19yrs	150 yrs	Both	15	50	mmol/24 hrs



Test Orderable	Phosphate Level Urine
Synonym(s)	Urine Phosphate Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High



Test Orderable	Porphobilinogen Qualitative Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Porphobilinogen Quantitative Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Porphyrins Fecal
Synonym(s)	Faecal Porphyrins, Porphyrins Stool
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Stool
Container(s)	0-150 years: Sterile Container
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Porphyrins Urine
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	HMC
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Potassium Level
Synonym(s)	K Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	< 3 months	Both	3.3	6.5	mmol/L	<2.6	>6.4	
3 months	< 1 year	Both	3.3	6.0	mmol/L	<2.6	>6.4	
1 yr	< 19 yrs	Both	3.5	5.2	mmol/L	<2.6	>6.4	
19 yrs	150 yrs	Both	3.5	5.3	mmol/L	<2.6	>6.4	



Test Orderable	Potassium Level 24 Hour Urine
Synonym(s)	24 Hour Urine Potassium Level, K Level 24 Hour Urine, Urine 24
	Hour Potassium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical	Critical		
			LIMIL	Limit		Low	High		
0	18 years	Both	0	3	mmol /kg /				
					24hrs				
19 years	150 yrs	Both	25	125	mmol/24				
					hrs				

Note pediatric reference values are per kilogram of patient weight



Test Orderable	Potassium Level Urine (Spot sample)
Synonym(s)	K Level Urine, Urine Potassium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High

No reference interval quoted.



Test Orderable	Plasma/Free Hemoglobin
Synonym(s)	Plasma/Free Hemoglobin
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: Microtainer EDTA
Volume (recommended)	0.1 mL
Special Handling Requirements	
Routine Turnaround Time	3 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150	All	See Interpretative comment below		g/L		0.1

For patients on ECMO, hemolysis decision points are as follows:		
Moderate	plasma free Hb 0.05-0.1 g/L	
Critical	plasma free Hb 0.1-0.5 g/L	
Emergency	plasma free Hb >0.5 g/L	



Test Orderable	Prealbumin
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Progesterone Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
4 days	<1 years	Female	0.9	27.6	nmol/L	N/A	N/A
4 days	<1 years	Male	0.6	19.2	nmol/L	N/A	N/A
1 years	<9 years	Both	0.1	2.7	nmol/L	N/A	N/A
9 years	<13 years	Both	0.2	4.5	nmol/L	N/A	N/A
13 years	<19 years	Female	0.8	38.5	nmol/L	N/A	N/A
13 years	<19 years	Male	0.6	5.2	nmol/L	N/A	N/A
19 years	150 years	Male	0.4	6.6	nmol/L	N/A	N/A
19 years	150 years	Female	1.0	4.8	nmol/L	N/A	N/A

Progesterone reference interval for females 13 to 18 years derived from sampling throughout the menstrual cycle.

Progesterone reference interval for females greater than 19 years applies to mid-follicular phase only.



Test Orderable	Prolactin Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 days	<30 days	Both	1080	>4240	mIU/L	N/A	N/A
30 days	<1 years	Both	85	1500	mIU/L	N/A	N/A
1 years	<19 years	Both	70	390	mIU/L	N/A	N/A
19 years	150 years	Male	55	280	mIU/L	N/A	N/A
19 years	50 years	Female	See below			N/A	N/A
			notes				

For female adults >19 years:

Pre-menopausal: 70 - 570 mIU/L

Peri- or post-menopausal: 6 - 420 mIU/L



Test Orderable	Prostate Specific Antigen
Synonym(s)	PSA
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	3.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	STAT TAT: N/A

Reference Intervals							
Age From	From Age To Sex Lower Upper Units Critical Critical						
			Limit	Limit		Low	High
0 year	150 year	Male	0.0	4.0	ug/L	N/A	N/A

This assay is performed using an immunoassay manufactured by Beckman Coulter, and results may not be comparable to those obtained from other manufacturer's methods.



Test Orderable	Protein 24 Hour Urine
Synonym(s)	Urine 24 Hour Protein
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 years	Both	0	100	mg/24hrs		



Test Orderable	Protein Body Fluid
Synonym(s)	Body Fluid Protein
Testing Location (if not Sidra)	
Specimen Type(s)	Ascites Fluid, Pancreatic Fluid, Pleural Fluid, Peritoneal Fluid, Pericardial Fluid, Other (Enter as Order Comment), Bile Fluid, Bronchial Lavage Upper Lobe, Bronchial Lavage Lower Lobe, JP Abdomen Fluid, Peritoneal Dialysis Fluid, Synovial Fluid Right Side, Synovial Fluid Left Side, Thoracentesis Fluid, Wound Drain
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 Hours
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
			N/A				



Test Orderable	Protein CSF
Synonym(s)	CSF Protein
Testing Location (if not Sidra)	
Specimen Type(s)	CSF
Container(s)	0-150 years: CSF Tube
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	1 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	<2 month	Both	0.17	1.01	g/L		
2 month	<4 months	Both	0.07	0.67	g/L		
4 months	<14 years	Both	0.05	0.29	g/L		
14 years	<18 years	Both	0.14	0.38	g/L		
18 years	150 years	Both	0.15	0.45	g/L		

Note that all CSF Protein results are telephoned.



Test Orderable	Protein Electrophoresis Urine
Synonym(s)	Urine Protein Electrophoresis
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Protein Creatinine Ratio (Spot sample)
Test Orderable	
Synonym(s)	Urine Protein:Creatinine Ratio, PCR
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 years	Both	0	20	mg/mmol		



Test Orderable	Pseudocholinesterase
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Li Heparin
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Renin Activity
Synonym(s)	
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-2y: MAP / Microtainer EDTA
	2y-150y: EDTA
Volume (recommended)	Microtainer: 0.5 mL
	EDTA: 1.0 mL
Special Handling Requirements	Keep On Ice, Send to lab within one hour
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Name	Rheumatoid Factor	
Synonym(s)		
Testing Status	IN-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole Blood	
Container(s)	0-2 yrs: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling		
Clinical Information		

Reference Intervals Rheumatoid Factor							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 days	150 yrs	Both		<14	IU/mL		



Test Orderable	Metho
	Level
Synonym(s)	Aspirin Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 years	Both	100	300	mg/L		>300

For Salicylate ingestion a sample should be taken as soon as an overdose is suspected, and then based on clinical findings or the initial salicylate result, repeated every 2-4 hours until the level is decreasing.



In toxicity, concentrations may continue to rise for several hours.

Test Orderable	Selenium Level
Synonym(s)	Se
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Serum
Volume (recommended)	6 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to <u>Mayo Lab Guide</u>								



Test Orderable	Sex Hormone Binding Globulin
Synonym(s)	SHBG
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0 months	<1 months	Both	12	116	nmol/L	N/A	N/A		
1 months	<1 years	Both	32	232	nmol/L	N/A	N/A		
1 years	<8 years	Both	53	174	nmol/L	N/A	N/A		
8 years	<11 years	Both	45	144	nmol/L	N/A	N/A		
11 years	<13 years	Both	16	132	nmol/L	N/A	N/A		
13 years	<19 years	Female	18	96	nmol/L	N/A	N/A		
13 years	<19 years	Male	10	75	nmol/L	N/A	N/A		
19 years	50 years	Male	13	90	nmol/L	N/A	N/A		
19 years	46 years	Female	18	136	nmol/L	N/A	N/A		
46 years	150 years	Female	17	125	nmol/L	N/A	N/A		

No reference interval readily available for males over 50 years



Test Orderable	Sirolimus Level
Synonym(s)	Rapamycin
Testing Location (if not Sidra)	
Specimen Type(s)	Whole Blood
Container(s)	0-150 years: EDTA
Volume (recommended)	0.5 mL
Special Handling Requirements	
Routine Turnaround Time	The assay is performed three times a week (Sunday, Tuesday & Thursday) - results will be available by 14:00 on the day of analysis
Urgent Turnaround Time (suspected toxicity ONLY)	Please contact the on-call Biochemist via AMION
STAT Turnaround Time (suspected toxicity ONLY)	Please contact the on-call Biochemist via AMION

	Target Range								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
		All	ages, male a	nd female.					
Trough Sirol	imus Target I	Range:							
4.0 – 20.0 μį	g/L (Single th	erapy with Si	rolimus)						
4.0 – 12.0 μ	g/L (Triple th	erapy with Cy	closporine, c	orticosteroid	s and Sirolimu	ls)			
12.0 - 20.0	ug/L (Dual th	erapy with co	orticosteroids	and Sirolimu	s)				
		.,							
If monitorin	g blood level	s of immunos	uppressant d	lrugs (tacrolin	nus, cyclospo	rine, sirolimu	S,		
everolimus)	, it is advisab	e to collect b	lood specime	ens immediate	ely prior to ac	dministration	of the next		
dose i.e. a tr	ough level. H	lowever, if ar	alysis is indic	ated due to s	uspected tox	icity, the sam	ple may be		
collected at	collected at any time.								
Analytical m	ethod: Liquio	l chromatogr	aphy tandem	mass spectro	ometry (LC-M	S/MS)			



Test Orderable	Sodium Level
Synonym(s)	Na Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0	< 7 days	Both	135	147	mmol/L	<126	>154	
7 days	< 2 yrs	Both	135	145	mmol/L	<126	>154	
2 yrs	< 16 yrs	Both	135	145	mmol/L	<126	>154	
16 yrs	150 yrs	Both	135	145	mmol/L	< 121	>154	



Test Orderable	Sodium Level 24 Hour Urine
Synonym(s)	24 Hour Urine Sodium Level, Na Level 24 Hour Urine, Urine 24
	Hour Sodium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	18 years	Both	0	3	mmol /kg / 24hrs		
19 years	150 yrs	Male	40	220	mmol/24 hrs		
19 years	150 yrs	Female	27	287	mmol/24 hrs		

Note pediatric reference values are per kilogram of patient weight



Test Orderable	Sodium Level Urine (Spot sample)
Synonym(s)	Na Level Urine, Urine Sodium Level
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High

No reference intervals quoted



Test Orderable	Soluble Transferrin Receptor Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Sweat Chloride Test
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Sweat
Container(s)	0-150 years: Coil
Volume (recommended)	15.0 mcL
Special Handling Requirements	 To increase the likelihood of collecting an adequate sweat specimen, patients should meet the following criteria: For asymptomatic newborns with positive screen or positive prenatal genetic testing: Greater than 10 days old Greater than 36 weeks gestation Weigh > 2kg. For symptomatic newborns (e.g. those with meconium ileus) Can be evaluated as early as 48hrs after birth but maybe inconclusive at this age. Patients should be normally hydrated and without systemic illness. Sweat tests should be delayed in subjects who are dehydrated, underweight, and systemically unwell or who have eczema affecting the potential stimulation sites where practicable. Please contact pulmonology clinic to arrange an appointment for this procedure
Routine Turnaround Time	
Urgent Turnaround Time	
STAT Turnaround Time	

Age	Normal Range	Intermediate Range	Indicative of CF Range
Applies to all ages	<30 mmol/L	30 – 59 mmol/L	> 59 mmol/L



Test Orderable	Tacrolimus Level
Synonym(s)	FK506 Lvl
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Volume (recommended)	0.5 mL
Special Handling Requirements	
Routine Turnaround Time	48 – 72 Hours
Urgent Turnaround Time	Please contact the on-call Biochemist via AMION
(suspected toxicity ONLY)	
STAT Turnaround Time	Please contact the on-call Biochemist via AMION
(suspected toxicity ONLY)	

	Target Range								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
All ages male and female.									
Trough Tac	crolimus Targ	et Range:							
7.0 – 21.0	mcg/L (Imme	diately after	transplant)						
		•	kidney transp	lant)					
	0. 1		one marrow t	•					
00 10 2010				in an option ()					
lf monitori	ng blood leve	els of immuno	osuppressant	drugs					
	0		everolimus),	0					
•			immediately						
		•	trough level	•					
			d toxicity, the	-					
•	llected at any	•	a toxicity, the	sumple					
		unic.							
Completer	alurad usiaa "								
Sample and	aiyzeu using	anuem Mas	s Spectromet	ry					



Test Orderable	Testosterone Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

			Reference	e Intervals			
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 year	<1.5 year	Female	0.0	2.2	nmol/L	N/A	N/A
0 year	<1.5 year	Male	0.0	9.9	nmol/L	N/A	N/A
1.5 years	<7 years	Both	0.0	0.4	nmol/L	N/A	N/A
7 years	<9 years	Both	0.0	0.6	nmol/L	N/A	N/A
9 years	<12 years	Both	0.0	1.6	nmol/L	N/A	N/A
12 years	<15 years	Female	0.4	2.3	nmol/L	N/A	N/A
12 years	<19 years	Male	0.4	19.6	nmol/L	N/A	N/A
15 years	<19 years	Female	0.6	3.0	nmol/L	N/A	N/A
19 years	150 years	Male	6.1	27.3	nmol/L	N/A	N/A
19 years	150 years	Female	0.4	2.6	nmol/L	N/A	N/A



Test Orderable	Theophylline Level
Synonym(s)	Aminophylline Level
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Thiopurine Methyltransferase
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Volume (recommended)	4 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Thyroid Peroxidase Antibody (TPO)
Synonym(s)	Thyroid Antimicrosomal Antibody, TPO
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Li Heparin
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
18 years	80 years	Both	0	10	kU/L	N/A	N/A

No reference interval quoted for children



Test Orderable	Thyroid Profile
Synonym(s)	TFT's, Thyroid Function Tests, TSH
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

Panel includes the following analytes:

Thyroid Stimulation Hormone (TSH), Free T4

Please refer to individual analytes for reference ranges



Test Orderable	Tobramycin Level (Once Daily Pre)
Synonym(s)	Nebcin Lvl Once Daily Pre
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

	Target Range						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both		1.0	mg/L		>1

Sample to be taken pre-dose



Test Orderable	Tobramycin Level Peak
Synonym(s)	Nebcin Lvl Peak
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
			LIIIIIC	LIIIIL		LOW	111611
0	150 yrs	Both	5.0	10.0	mg/mL		> 10

Measurement of peak concentrations is not routinely recommended. If necessary this is taken 1 hour post-dose.



Test Orderable	Tobramycin Level Trough
Synonym(s)	Nebcin Lvl Trough
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	2 mL
Special Handling Requirements	Separate serum within 2hrs of draw
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	0.6	2.0	mg/mL		> 2

Sample to be taken pre-dose



Test Orderable	Total CO2 Level
Synonym(s)	Bicarbonate Level, CO2 Lvl
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 3 months	Both	17	27	mmol/L	< 15	> 40
3 months	< 2 yrs	Both	18	29	mmol/L	< 15	> 40
2 yrs	< 16 yrs	Both	21	31	mmol/L	< 15	> 40
16 yrs	150 yrs	Both	22	32	mmol/L	< 15	> 40



Test Orderable	Total Protein
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
						LOW	півіі
0	< 15 days	Both	52	79	g/L		
15 d	< 1 yr	Both	43	68	g/L		
1yr	< 6 yrs	Both	59	72	g/L		
6 yrs	< 9 yrs	Both	62	74	g/L		
9 yrs	< 19 yrs	Both	63	77	g/L		
19 yrs	< 150 yrs	Both	66	83	g/L		

Test Orderable	Transferrin
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	< 9 wks	Both	1.0	2.2	g/L		
9 wks	< 1 yr	Both	1.0	3.2	g/L		
1yr	< 19 yrs	Both	2.1	3.3	g/L		
19 yrs	< 150 yrs	Both	2.0	3.6	g/L		



Test Orderable	Triglycerides
Synonym(s)	Trigs
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	N/A

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 15 days	Both	1.1	3.3	mmol/L	LOW	>20
15 d	< 1 yr	Both	0.7	3.3	mmol/L		>20
1 yr	< 19 yrs	Both	0.6	2.5	mmol/L		>20
19 yrs	< 150 yrs	Both	See below	See below	mmol/L		>20

Note that adult reference values are not given as the results should form part of a cardiovascular risk assessment, which includes other risk factors apart from lipid levels.



Test Orderable	Troponin-I Level (High Sensitivity)
Synonym(s)	High-sensitivity TnI Level, Trop I Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	1 hour
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 days	150 years	Female	2.3	12	ng/L		12
0 days	150 years	Male	2.3	20	ng/L		20

Upper reference limit relates to 99th centile of normal in adults



Test Orderable	Thyroid Stimulating Hormone
Synonym(s)	TSH
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	2 hours

	Reference Intervals									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High			
Day 0	Day 1	Both	2.4	24	mIU/L					
Day 1	Day 2	Both	1.9	17.6	mIU/L					
Day 2	Day 3	Both	1.4	13.1	mIU/L					
Day 3	Day 4	Both	0.9	9.7	mIU/L					
Day 4	Day 5	Both	0.6	6.82	mIU/L					
Day 5	1 Week	Both	0.58	5.58	mIU/L					
>1 Week	<12 years	Both	0.76	4.64	mIU/L					
12 years	150 years	Both	0.38	5.33	mIU/L					

Please note: A test called **TSH only** has been created, primarily for patients in whom a thyroid disorder has already been diagnosed, and used to e.g. monitor the appropriateness of the dose of Thyroxine replacement. <u>The test will not reflex FT3 or FT4</u>, regardless of TSH result, so it is imperative that clinicians and physicians use this test only when indicated, otherwise there is a risk that a diagnosis of secondary hypothyroidism may be missed.

Pregnancy Related Reference Intervals								
Trimester	Lower	Upper	Units	Critical	Critical			
	Limit	Limit		Low	High			
1 st Trimester	0.05	3.7	mIU/L					
2 nd Trimester	0.31	4.35	mIU/L					
3 rd Trimester	0.41	5.18	mIU/L					



Test Orderable	Urea Level
Synonym(s)	Blood Urea Nitrogen, BUN
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

	Reference Intervals								
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical		
			Limit	Limit		Low	High		
0	<15d	Both	1.1	8.2	mmol/L		>14.9		
15 d	< 1yr	Both	1.3	6	mmol/L		>14.9		
1 yr	< 10 yrs	Both	3.2	7.9	mmol/L		>14.9		
10 yrs	< 19 yrs	Male	2.6	7.5	mmol/L		>14.9		
10 yrs	< 19 yrs	Female	2.6	6.8	mmol/L		>14.9		
19yrs	150 yrs	Both	2.8	7.2	mmol/L		>29.9		



Test Orderable	Urea Nitrogen 24 Hour Urine
Synonym(s)	24 Hour Urine Urea Nitrogen, Urine 24 Hour Urea Nitrogen
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to HMC Lab Guide								



Test Orderable	Urea Nitrogen Urine
Synonym(s)	Urine Urea Nitrogen
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	2 Weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
Please refer to HMC Lab Guide								



Test Orderable	Uric Acid 24 Hour Urine
Synonym(s)	24 Hour Urine Uric Acid, Urine 24 Hour Uric Acid
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: 24 Hr Urine Container
Volume (recommended)	24 Hr Urine volume
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	1 hour

Reference Intervals								
Age From Age To Sex Lower Upper Units Critical Critical								
			Limit	Limit		Low	High	
0	10 100	Dath	0	0.21	mmol/kg/			
0	0 18 yrs	Both	0	0.21	24 hrs			
10.000	150	Deth	1 5	4.5	mmol/24			
19 yrs 1	150 yrs	Both	1.5	4.5	hrs			

Note pediatric reference values are per kilogram of patient weight



Test Orderable	Uric Acid Body Fluid
Synonym(s)	Body Fluid Uric Acid
Testing Location (if not Sidra)	НМС
Specimen Type(s)	Ascites Fluid, Pancreatic Fluid, Pleural Fluid, Peritoneal Fluid, Pericardial Fluid, Other (Enter as Order Comment), Bile Fluid, Bronchial Lavage Upper Lobe, Bronchial Lavage Lower Lobe, JP Abdomen Fluid, Peritoneal Dialysis Fluid, Synovial Fluid Right Side, Synovial Fluid Left Side, Thoracentesis Fluid, Wound Drain
Container(s)	0-150 years: Sterile Container
Volume (recommended)	1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
			N/A					



Test Orderable	Uric Acid Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0	< 15 days	Both	164	776	umol/L		
15 d	< 1 yr	Both	91	384	umol/L		
1 yr	< 12 yrs	Both	104	293	umol/L		
12 yrs	< 19 yrs	Male	155	463	umol/L		
12 yrs	< 19 yrs	Female	152	355	umol/L		
19 yrs	150 yrs	Male	208	428	umol/L		
19 yrs	150 yrs	Female	155	357	umol/L		



Test Orderable	Uric Acid Urine (Spot urine)
Synonym(s)	Urine Uric Acid
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	2 hours
STAT Turnaround Time	N/A

Reference Intervals							
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High

No reference interval provided



Test Orderable	Urinalysis (-/+ Microscopy)
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	Send to the laboratory Immediately
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	1 hour

Urinalysis is undertaken using Dipstick and includes the following analytes:

Color, pH, Specific Gravity, Protein, Glucose, Ketones, Bilirubin, Blood, Nitrite, Urobilinogen,

Leukocyte Esterase (presence of white cells)

	Expected results
Color	Clear
Specific Gravity	1.005-1.035
рН	5.0 to 8.0
Protein	Negative, Trace
Glucose	Negative
Ketones	Negative
Bilirubin	Negative
Blood	Negative
Urobilinogen	0-16 UMOL/L
Nitrite	Negative
Leukocyte Esterase	Negative



Test Orderable	Urine Microscopy (Only)
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Urine
Container(s)	0-150 years: Sterile Urine Container
Volume (recommended)	10 mL
Special Handling Requirements	Send to the laboratory Immediately
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	1 hour

Urine microscopy looks for the presence (and Identification) or absence of the following:

White Blood Cells, Red Blood Cells, Epithelial Cells, Bacteria, Casts, Crystals

	Expected results
Leukocyte (WBC)	Male 0 - 2 per hpf
	Female 0 -5 per hpf
Erythrocytes (RBC)	Male 0 -2 per hpf
	Female 0 – 5 per hpf
Squamous Epithelial Cells	0 – 2 per hpf
Transitional epithelial cells	None
or renal epithelial cells	
Bacteria	None
Yeast	None
Crystals	None
Casts	None



Test Orderable	Valproate Level
Synonym(s)	Epilim Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 1 week
Urgent Turnaround Time	
STAT Turnaround Time	

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High

Target range is 50 – 100mg/L, although there is a poor relationship between concentration and effect/adverse effects.

Toxic levels are more common above 150mg/L

In routine monitoring, a pre-dose (trough) level up to 1 hour before is preferred



Test Orderable	Vancomycin Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Volume (recommended)	1.0 mL
Special Handling Requirements	HMC
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both			mg/L		

Children's and Adult Antibiotic Guidelines: <u>Sidra Portal - Clinical_Guidelines</u>



Test Orderable	Vancomycin Level – IV Continuous		
Synonym(s)			
Testing Location (if not Sidra)			
Specimen Type(s)	Blood		
Container(s)	0-2y: Micro Li Hep Gel		
	2y-150y: SST		
Volume (recommended)	Microtainer: 0.5 mL		
	SST: 1.0 mL		
Special Handling Requirements			
Routine Turnaround Time	4 hours		
Urgent Turnaround Time	1 hour		
STAT Turnaround Time	1 hour		

Target Range									
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0	150 yrs	Both			mg/L		> 30		

Children's and Adult Antibiotic Guidelines: <u>Sidra Portal - Clinical Guidelines</u>



Test Orderable	Vancomycin Level Peak
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	25	40	mg/L		> 40

Measurement of peak concentrations is not routinely recommended. If necessary this is taken immediately after completion of 1 hour infusion

Children's and Adult Antibiotic Guidelines: <u>Sidra Portal - Clinical_Guidelines</u>



Test Orderable	Vancomycin Level Trough
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-1/2y: Micro Li Hep Gel
	1/2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target Range							
Age From Age To Sex Lower Upper Units Critical Critical						Critical	
			Limit	Limit		Low	High
0	150 yrs	Both	10	20	mg/L		>20

Children's and Adult Antibiotic Guidelines: <u>Sidra Portal - Clinical_Guidelines</u>



Test Orderable	Vitamin A Level
Synonym(s)	Retinol
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	0-150 years: SST
Volume (recommended)	Microcontainer: 0.5 ml
	SST: 2.0 mL
Special Handling Requirements	Protect from light
Routine Turnaround Time	1 week
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High	
0 Minutes	1 Day	both	0.35	1.05	mcmol/L	NA	NA	
1 Day	1 Years	both	0.52	1.4	mcmol/L	NA	NA	
1 Years	10 Years	both	0.7	1.75	mcmol/L	NA	NA	
>11 Years	150 Years	both	1.05	2.09	mcmol/L	NA	NA	



Test Orderable	Vitamin B1 Level
Synonym(s)	Thiamine Level
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Volume (recommended)	4.0 mL
Special Handling Requirements	Protect from light
Routine Turnaround Time	Sendaway: 2-4 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Test Orderable	Vitamin B12 Level
Synonym(s)	B12 Level
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: 2 h
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals								
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High		
0 years	<1 years	Both	118	1100	pmol/L	N/A	N/A		
1 years	<2 years	Both	197	1100	pmol/L	N/A	N/A		
2 years	<8 years	Both	190	747	pmol/L	N/A	N/A		
8 years	<14 years	Both	149	772	pmol/L	N/A	N/A		
14 years	<19 years	Both	132	531	pmol/L	N/A	N/A		
19 years	150 years	Both	115	1000	pmol/L	N/A	N/A		

'Vitamin B12 deficiency is associated with a concentration <115pmol/L. Values 115-150pmol/L can also be associated with symptoms so assess patient on an individual basis'



Test Orderable	Vitamin B6 Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Li Heparin
Volume (recommended)	2.0 mL
Special Handling Requirements	Patient must be fasting or pre-feed
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Vitamin D Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microtainer: 0.5 mL
	SST: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals						
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 year	150 years	Both	See comment below	See comment below	nmol/L	N/A	N/A

Result Comment
Severe deficiency: <25 nmol/L
Moderate deficiency: 25 to <50 nmol/L
Insufficiency: 50 to <75 nmol/L
Possible toxicity: >200 nmol/L



Test Orderable	Vitamin E Level
Synonym(s)	Tocopherol
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Volume (recommended)	Microcontainer: 0.5 ml
	SST: 2.0 mL
Special Handling Requirements	Protect from light
Routine Turnaround Time	1 week
Urgent Turnaround Time	Urgent TAT: N/A
STAT Turnaround Time	STAT TAT: N/A

	Reference Intervals						
Age From	Age To	Sex	Lower	Upper	Units	Critical	Critical
			Limit	Limit		Low	High
0 minutes	12 year	both	4	24	mcmol/L	NA	NA
13 years	19 years	both	17	26	mcmol/L	NA	NA
20 years	150 years	both	15	46	mcmol/L	NA	NA



Test Orderable	Vitamin K Level
Synonym(s)	
Testing Location (if not Sidra)	Мауо
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	4.0 mL
Special Handling Requirements	MML
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to Mayo Lab Guide							



Test Orderable	Voriconazole Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-1/2y: Plain/Red Top
	1/2y-150y: Plain/Red Top
Volume (recommended)	Microtainer: 0.5 mL
	Red Top: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	2.0	5.5	mg/L		>6.0

- Target range applies to trough levels
- For sample collection and guidance refer to :: Lexicomp



Test Orderable	TACRO
	Level
Synonym(s)	
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-1/2y: Plain/Red Top
	1/2y-150y: Plain/Red Top
Volume (recommended)	Microtainer: 0.5 mL
	Red Top: 1.0 mL
Special Handling Requirements	
Routine Turnaround Time	4 hours
Urgent Turnaround Time	1 hour
STAT Turnaround Time	1 hour

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	2.0	5.5	mg/L		>6.0

• Target range applies to trough levels



Test Orderable	Zinc Level
Synonym(s)	Zn level
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Serum
Volume (recommended)	3.0 mL
Special Handling Requirements	
Routine Turnaround Time	Sendaway: up to 2 weeks
Urgent Turnaround Time	
STAT Turnaround Time	

Reference Intervals							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to <u>HMC Lab Guide</u>							



Point of Care

Test Orderable	POCT Blood Gas
Description	Blood Gas Analysis
Specimen	Arterial, Mixed Venous, Venous, Capillary, Cord, ECMO or circulatory blood collected in heparinized syringe or capillary tube
Minimum Volume	150 μL
Testing Interval	Samples must be processed no more than 15 minutes after collection
Devices in Use	GEM4000
Method	Potentiometry (pH, Na, K Cl, iCa), GEM pCO2 Sensor (pCO2), Amperometric (pO2), Enzymatic Biosensors (Glu, Lac), Conductivity Sensor (Hct), Optical System XO-Oximetry (Hb, O2Hb, COHb, MetHb, HHb, SO2, Bilirubin)
Parameters Measured	Blood Gas (pH, pCO2, pO2), Electrolytes (Na, K, Cl, iCa), Metabolites (Glu, Lac), CO-Oximetry (Hb, O2Hb, COHb, MetHb, HHb, Bilirubin)
Reference	PRO-O-GEM4000 (PTH-PRO-431) Appendix A
Performing Test Location(s)	Main OR, Cath Lab, NICU (2), PICU (2), Emergency Department, 3D Birthing Center

Reference Inte	teference Intervals in Cerner									
Assay Display	Assay Description	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
BG-pH	Blood Gas pH	0 Minutes	150 Years	All					6.5	8
BG-PCO2	Blood Gas PCO2	0 Minutes	150 Years	All					6	90
BG-PO2	Blood Gas PO2	0 Minutes	150 Years	All					5	800
BG-TCO2	Blood Gas Total CO2	0 Minutes	150 Years	All						
BG-HCO3	Blood Gas HCO3	0 Minutes	150 Years	All					0	99.9
BG-BE	Blood Gas-BE	0 Minutes	150 Years	All	-2	3			-99.9	99.9
BG-O2SAT	Blood Gas O2SAT	0 Minutes	150 Years	All					15	100
BG-Na	Blood Gas Na	0 Minutes	7 Days	All	135	147	126	154	110	200
BG-Na	Blood Gas Na	7 Days	16 Years	All	135	145	126	154	110	200
BG-Na	Blood Gas Na	16 Years	150 Years	All	135	145	121	154	110	200



Assay Display	Assay Description	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
BG-K	Blood Gas K	0 Minutes	3 Months	All	3.3	6.5	2.6	6.4	0.5	20
BG-K	Blood Gas K	3 Months	1 Years	All	3.3	6	2.6	6.4	0.5	20
BG-K	Blood Gas K	1 Years	19 Years	All	3.5	5.2	2.6	6.4	0.5	20
BG-K	Blood Gas K	19 Years	150 Years	All	3.5	5.3	2.6	6.4	0.5	20
BG-Cl	Blood Gas Cl	0 Minutes	16 Years	All	98	116			40	170
BG-Cl	Blood Gas Cl	16 Years	150 Years	All	101	111			40	170
BG-Ca2+	Blood Gas iCa2+	0 Minutes	150 Years	All	1.12	1.32	0.8	1.6	0.1	5
BG-Glu	Blood Gas Glucose	0 Minutes	6 Months	All	4	6	2.6	14.9	0.2	41.6
BG-Glu	Blood Gas Glucose	6 Months	150 Years	All	4	6	2.6	19.9	0.2	41.6
BG-Lact	Blood Gas Lactate	0 Minutes	150 Years	All	0.5	2.2		4	0.3	20
BG-Bili	Blood Gas Bili	0 Minutes	150 Years	All					5	684
BG-Hb	Blood Gas Hb	0 Minutes	7 Days	All	145	225	90	250	20	250
BG-Hb	Blood Gas Hb	7 Days	14 Days	All	135	215	90	250	20	250
BG-Hb	Blood Gas Hb	14 Days	31 Days	All	125	205	90	250	20	250
BG-Hb	Blood Gas Hb	31 Days	61 Days	All	100	180	70	200	20	250
BG-Hb	Blood Gas Hb	61 Days	91 Days	All	90	140	70	200	20	250
BG-Hb	Blood Gas Hb	91 Days	181 Days	All	110	147	70	200	20	250
BG-Hb	Blood Gas Hb	181 Days	3 Years	All	106	145	70	200	20	250
BG-Hb	Blood Gas Hb	3 Years	12 Years	All	110	157	70	200	20	250
BG-Hb	Blood Gas Hb	12 Years	15 Years	Male	125	170	70	200	20	250
BG-Hb	Blood Gas Hb	15 Years	150 Years	Male	137	180	70	200	20	250
BG-Hb	Blood Gas Hb	12 Years	150 Years	Female	120	160	70	200	20	250
BG-Hct	Blood Gas Hct	0 Minutes	7 Days	All	45	67			15	74
BG-Hct	Blood Gas Hct	7 Days	14 Days	All	42	66			15	74
BG-Hct	Blood Gas Hct	14 Days	31 Days	All	39	63			15	74
BG-Hct	Blood Gas Hct	31 Days	61 Days	All	31	55			15	74
BG-Hct	Blood Gas Hct	61 Days	91 Days	All	28	42			15	74
BG-Hct	Blood Gas Hct	91 Days	181 Days	All	31	45			15	74

Table of Contents
Updated: May 12, 2022



Assay Display	Assay Description	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
BG-Hct	Blood Gas Hct	181 Days	3 Years	All	31	44			15	74
BG-Hct	Blood Gas Hct	3 Years	12 Years	All	34	46			15	74
BG-Hct	Blood Gas Hct	12 Years	15 Years	Male	36	50			15	74
BG-Hct	Blood Gas Hct	15 Years	150 Years	Male	40	54			15	74
BG-Hct	Blood Gas Hct	12 Years	150 Years	Female	36	48			15	74
BG-O2Hb	Blood Gas O2Hb	0 Minutes	150 Years	All					0	100
BG-COHb	Blood Gas COHb	0 Minutes	150 Years	All					0	100
BG-MHb	Blood Gas MetHb	0 Minutes	150 Years	All					0	100
BG-HHb	Blood Gas HHb	0 Minutes	150 Years	All					0	100
BG-FiO2	Blood Gas FiO2	0 Minutes	150 Years	All					0	100

*Appropriate saturation ranges, both higher and lower, must be targeted according to the clinical setting

Reference interval sources: O2Hb, MetHb, HHb Teitz, CoHb Clin Chem 2006, 52: 338, Critical values from Clinical Biochemistry laboratory, Abbott Diagnostics and Am J Respir Crit Care Med 2012 186: 1095–1101. For more clarification on other test reference ranges/critical limits for the analytes please refer to the Beckman Coulter DXC800 – Operation procedure.



Assay Display	Assay Description	Sample Type	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
BG-pH	Blood Gas pH	ART & CAP Only	7.35	7.45	7.21	7.59	6.5	8
BG-pH	Blood Gas pH	VEN Only	7.31	7.41			6.5	8
BG-PCO2	Blood Gas PCO2	ART & CAP Only	35	45	20	70	6	150
BG-PCO2	Blood Gas PCO2	VEN Only	41	51			6	150
BG-PO2	Blood Gas PO2	ART	80	105	44		5	800
00-102	Blood Gas Total		80	105				800
BG-TCO2	CO2	ART Only	23	27				
	Blood Gas Total	,	1					
BG-TCO2	CO2	VEN Only	24	29				
BG-HCO3	Blood Gas HCO3	ART Only	22	26			0	99.9
BG-HCO3	Blood Gas HCO3	VEN Only	23	28			0	99.9
BG-BE	Blood Gas-BE		-2	3			-99.9	99.9
BG-O2SAT	Blood Gas O2SAT	ART Only	95	98	90*		15	100
		ART, VEN, MIXVEN, CAP						
BG-Na	Blood Gas Na	only	135	147	126	154	110	200
		ART, VEN, MIXVEN, CAP						
BG-K	Blood Gas K	only	3.3	6	2.6	6.4	0.5	20
		ART, VEN, MIXVEN, CAP	101	111	05	120	10	170
BG-Cl	Blood Gas Cl	only ART, VEN, MIXVEN, CAP	101	111	85	120	40	170
BG-Ca2+	Blood Gas iCa2+	only	1.12	1.32	0.8	1.6	0.1	5
20 0021	Blood Gas	ART, VEN, MIXVEN, CAP		1.52	0.0	1.0	0.1	
BG-Glu	Glucose	only	4	6	2.6	14.9	0.2	41.6
		ART, VEN, MIXVEN, CAP						
BG-Lact	Blood Gas Lactate	only	0.5	2.2		4	0.3	20
		ART, VEN, MIXVEN, CAP						
BG-Bili	Blood Gas Bili	only					5	684



Assay	Assay		Reference	Reference	Critical	Critical	Linear	Linear
Display	Description	Sample Type	Low	High	Low	High	Low	High
		ART, VEN, MIXVEN, CAP						
BG-Hb	Blood Gas Hb	only	120	160	70	200	20	250
		ART, VEN, MIXVEN, CAP						
BG-Hct	Blood Gas Hct	only	40	54			15	74
BG-O2Hb	Blood Gas O2Hb	ART Only	94	98			0	100
BG-COHb	Blood Gas COHb	ART Only	0	3		10	0	100
BG-MHb	Blood Gas MetHb	ART Only	0	1.5			0	100
BG-HHb	Blood Gas HHb	ART Only	0	6			0	100
BG-FiO2	Blood Gas FiO2						0	100

Reference interval sources: O2Hb, MetHb, HHb Teitz, CoHb Clin Chem 2006, 52: 338, Critical values from Clinical Biochemistry laboratory, Abbott Diagnostics and Am J Respir Crit Care Med 2012 186: 1095–1101. For more clarification on other test reference ranges/critical limits for the analytes please refer to the Beckman Coulter DXC800 – Operation procedure.



Test Orderable	POCT Activated Clotting Time
Description	Activated Clotting Time Low Range, Activated Clotting Time Plus
Specimen	Fresh whole blood (venous, capillary) collected in non-
	anticoagulated plastic syringe
Minimum Volume	50 μL
Testing Interval	Immediate processing of the sample
Devices in Use	Hemochron Signature Elite
Method	Optical monitoring of the end point clotting
Parameters Measured	ACT-LR, ACT+
Reference	PRO-O-Hemochron (PTH-PRO-457)
Performing Test Location(s)	Main OR, ICUs, Cardiology (Cath Lab)

Reference Intervals							
Test	Procedure	Lower Limit	Upper Limit	Abnormal Low	Abnormal High		
ACT	ECMO	160	180	120	250		
ACT	CRRT	140	170		250		
•	POC result should	•	•	tient's clinical condi accordance with the	•		



Test Orderable	POCT Amnisure
Description	Detection of the rupture of amniotic membrane
Specimen	Vaginal swab
Minimum Volume	N/A
Testing Interval	Immediate processing of the samples
Devices in Use	Amnisure ROM test kit
Method	Lateral flow device
Parameters Measured	Detection of ICFBP-1 and AFP proteins in cervical secretions
Reference	PRO-O-Amnisure (PTH-PRO-450)
Performing Test Location(s)	Ob Triage

Results Interpretation		
POSITIVE:	NEGATIVE:	INVALID:
There is a rupture	No membrane rupture	Invalid test – repeat testing required.
Both control and test are	ONLY control line present	NO lines are present
present		



Test Orderable	POCT HbA1c
Description	Glycated Hemoglobin
Specimen	Fresh whole blood (venous, capillary); collect using special
	Vantage pipette for collection; acceptable anticoagulants are
	EDTA and Heparin
Minimum Volume	1 μL
Testing Interval	Process within 5 minutes of collection
Devices in Use	Siemens DCA Vantage
Method	Inhibition of latex agglutination with spectrophotometric
	detection
Parameters Measured	HbA1c
Reference	PRO-O-Siemens DCA Vantage HbA1c Analyser (PTH-PRO-172)
Performing Test Location(s)	Endocrine Clinic

Reference Intervals	
N/A	



Test Orderable	POCT Hemocue Hb			
Description	Hemocue Hemoglobin			
Specimen	Fresh whole blood (arterial, venous, capillary)			
Minimum Volume	50 μL			
Testing Interval	Immediate processing of sample at patient bedside			
Devices in Use	Hemocue Hb 201DM			
Method	Modified azidemethemoglobin reaction			
Parameters Measure	Hemoglobin			
Reference Interval	PRO-O-Hemocue Hb201DM (PTH-PRO-458)			
Performing Test Location(s)	OB PACU			

Test			Lowe	er U	pper	Critical Low	v Critica	High		
Hemoglobin (g/L)			120	16	50	70 250				
	Referen	ce Intervals	in Cerner	are similar as	s the ones in	Hematology	CBC proced	ure (PTH-PRC	D-117)	
Test	Age From	Age To	Sex	Reference Low	Refere High	nce (Critical Low	Critical High	Linear Low	Linear Hig
Hemoglobin (g/L)	0 Minutes	7 Days	All	145		25	90	250	0	256
Hemoglobin (g/L)	7 Days	14 Days	All	135	2	15	90	250	0	256
Hemoglobin (g/L)	14 Days	31 Days	All	125	2	05	90	250	0	256

Table of Contents Updated: May 12, 2022



Test	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
Hemoglobin (g/L)	31 Days	61 Days	All	100	180	70	200	0	256
Hemoglobin (g/L)	61 Days	91 Days	All	90	140	70	200	0	256
Hemoglobin (g/L)	91 Days	181 Days	All	110	147	70	200	0	256
Hemoglobin (g/L)	181 Days	3 Years	All	106	145	70	200	0	256
Hemoglobin (g/L)	3 Years	12 Years	All	110	157	70	200	0	256
Hemoglobin (g/L)	12 Years	15 Years	Male	125	170	70	200	0	256
Hemoglobin (g/L)	15 Years	150 Years	Male	137	180	70	200	0	256
Hemoglobin (g/L)	12 Years	150 Years	Female	120	160	70	200	0	256



Test Orderable	POCT ISTAT CG8+
Description	iSTAT CG8+
Specimen	Arterial, Mixed Venous, Venous, Capillary, Cord, ECMO or
	circulatory blood collected in heparinized syringe or capillary tube
Minimum Volume	150 μL
Testing Interval	Samples must be processed no more than 15 minutes after
	collection
Devices in Use	Abbott iSTAT
Method	Potentiometry (pH, pCO2, pO2, Na, K, iCa, Glu)
Parameters Measured	Blood Gas (pH, pCO2, pO2), Electrolytes (Na, K, iCa), Metabolites
	(Glu)
Reference	PRO-O-iSTAT (PTH-PRO-118)
Performing Test Location(s)	Diagnostic Imaging (Hospital plaza), Main OR, Cath Lab,
	Respiratory Therapy

Reference Inter	Reference Intervals									
Assay Display	Age From	Age To	Sex	Sample Type	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
РОС-рН	0 Minutes	150 Years	All	ART ONLY	7.35	7.45	7.21	7.59	6.5	8.2
РОС-рН	0 Minutes	150 Years	All	VEN Only	7.31	7.41			6.5	8.2
POC-PCO2	0 Minutes	150 Years	All	ART ONLY	35	45	22	65	5	130
POC-PCO2	0 Minutes	150 Years	All	VEN Only	41	51			5	130
POC-PO2	0 Minutes	2 days	All	ART ONLY			38	91	5	800
POC-PO2	2 days	1month	All	ART ONLY	80	105	38	91	5	800
POC-PO2	1 month	16 years	All	ART ONLY	80	105	46	123	5	800
POC-PO2	16 years	150 years	All	ART ONLY	80	105	44		5	800
POC-Na	0 Minutes	< 7 days	All	ALL	135	147	126	154	110	200
POC-Na	7 days	< 2 yrs	All	ALL	135	145	126	154	110	200
POC-Na	2 yrs	< 16 yrs	All	ALL	135	145	126	154	110	200
POC-Na	16 yrs	150 yrs	All	ALL	135	145	121	154	110	200

Table of Contents Updated: May 12, 2022



Assay Display	Age From	Age To	Sex	Sample Type	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
РОС-К	0 Minutes	< 3 months	All	ALL	3.3	6.5	2.6	6.4	0.2	20
РОС-К	3 months	< 1 year	All	ALL	3.3	6	2.6	6.4	0.2	20
РОС-К	1 yr	< 19 yrs	All	ALL	3.5	5.2	2.6	6.4	0.2	20
РОС-К	19 yrs	150 yrs	All	ALL	3.5	5.3	2.6	6.4	0.2	20
POC-ionized Ca2+	0 Minutes	150 Years	All	ALL	1.12	1.32	0.8	1.6	0.25	5
POC-Glu	0 Minutes	150 Years	All	ALL	4	6	2.6	14.9	0.2	41.6
POC-Glu	6 Months	150 Years	All	ALL	4	6	2.6	19.9	0.2	41.6
POC-O2SAT	0 Minutes	150 Years	All	ART ONLY	95	98	91		15	100
POC-TCO2	0 Minutes	150 Years	All	ART ONLY	23	27			5	50
POC-BE	0 Minutes	150 Years	All	ALL	-2	3			-99.9	99.9
POC-HCO3	0 Minutes	150 Years	All	ART ONLY	22	26			1	85
POC-FiO2	0 Minutes	150 Years	All	ALL					0	100



Test Orderable	POCT Creatinine
Description	iSTAT Creatinine
Specimen	Arterial, Mixed Venous, Venous, Capillary, Cord, ECMO or
	circulatory blood collected in heparinized syringe or capillary tube
Minimum Volume	150 μL
Testing Interval	Samples must be processed no more than 15 minutes after
	collection
Devices in Use	Abbott iSTAT
Method	Potentiometry
Parameters Measured	Creatinine
Reference	PRO-O-ISTAT (PTH-PRO-118) Appendix A
Performing Test Location(s)	Diagnostic Imaging (Plaza Hospital)

Reference Interval	Reference Intervals									
Assay Display	Age From	Age To	Sex	Sample Type	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
POC Creatinine	0 Minutes	15 Days	All	ALL	27	77		200	18	1768
POC Creatinine	15 Days	2 Years	All	ALL	9	30		200	18	1768
POC Creatinine	2 Years	5 Years	All	ALL	17	36		200	18	1768
POC Creatinine	5 Years	12 Years	All	ALL	26	51		200	18	1768
POC Creatinine	12 Years	15 Years	All	ALL	38	68		200	18	1768
POC Creatinine	15 Years	19 Years	Male	ALL	52	90		350	18	1768
POC Creatinine	19 Years	150 Years	Male	ALL	54	110		350	18	1768
POC Creatinine	15 Years	19 Years	Female	ALL	41	70		350	18	1768
POC Creatinine	19 Years	150 Years	Female	ALL	39	89		350	18	1768



Test Orderable	POCT Glucose
Description	Blood Glucose
Specimen	Fresh whole blood (finger prick), in lithium heparin tube (arterial, venous)
Minimum Volume	1.6 μL
Testing Interval	Immediate processing of sample at patient bedside
Devices in Use	Nova StatStrip
Method	Enzymatic method with amperometric detection
Parameters Measured	Glucose
Reference	PRO-O-Nova StatStrip Glucose/Ketone Meter (PTH-PRO-120)
Performing Test Location(s)	All Sidra

Reference Intervals in Cerner							
Analyte	Age interval	Reference interval	Critical Values*				
Chuoseo	0 – 6 months	4.0 – 6.0 mmol/L	<2.6 or >14.9 mmol/L				
Glucose	>6months	4.0 – 6.0 mmol/L	<2.6 or >19.9 mmol/L				

Reference Intervals in the instrument					
Analyte	Critical Values*				
Glucose	4.0 – 6.0 mmol/L	<2.6 or >19.9 mmol/L			



Test Orderable	POCT Ketone
Description	Blood Ketone
Specimen	Fresh whole blood (finger prick), in lithium heparin tube (arterial,
	venous)
Minimum Volume	1.6 μL
Testing Interval	Immediate processing of sample at patient bedside
Devices in Use	Nova StatStrip
Method	Enzymatic method with amperometric detection
Parameters Measured	Ketone
Reference	PRO-O-Nova StatStrip Glucose/Ketone Meter (PTH-PRO-120)
Performing Test Location(s)	All Sidra

Reference Intervals in Cerner					
Blood Ketones mmol/L	Classification	Critical Values			
Less than 0.6 mmol/L	Normal				
0.6 – 1.4 mmol/L	Mild ketonemia				
1.5 – 2.9 mmol/L	Moderate ketonemia				
3.0 mmol/L or above	Severe ketonemia	3.0 mmol/L or above			

Reference Intervals in the instrument				
Analyte	Reference interval	Critical Values*		
Ketone	0.0 – 3.0 mmol/L	>3.0 mmol/L		



Test Orderable	POCT Urinalysis
Description	Urinalysis
Specimen	Fresh void urine in dry container free of additives
Minimum Volume	10 mL
Testing Interval	Sample must be processed within 2 hours of collection
Devices in Use	Siemens Clinitek Status Connect
Method	Photometric reader
Parameters Measured	Glucose, bilirubin, ketones, specific gravity, pH, blood, protein,
	urobilinogen, nitrites, leukocytes
Reference	PRO-O-Clinitek Status Plus (PTH-PRO-119)
Performing Test Location(s)	All Sidra

Reference intervals				
Expected (Male and Female all ages)				
Analyte	Reference Interval			
Specific Gravity	1.005 – 1.035			
рН	5.0-8.0			
Protein, Qualitative	Negative, Trace			
Glucose	Negative			
Ketones	Negative			
Bilirubin	Negative			
Blood	Negative			
Nitrite	Negative			
Urobilinogen	3.2, 16, 33 µmol/L			
Leukocyte Esterase	Negative			

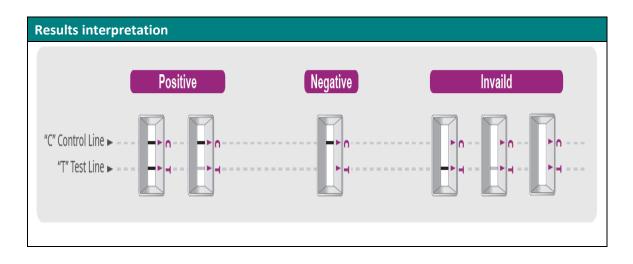


Test Orderable	POCT Urine Pregnancy
Description	Urine Pregnancy Test
Specimen	Fresh void urine in dry container free of additives
Minimum Volume	10 mL
Testing Interval	Sample must be processed within 2 hours of collection
Devices in Use	Siemens Clinitek Status Connect
Method	Photometric Reader
Parameters Measured	βhCG
Reference	PRO-O-Clinitek Status Plus (PTH-PRO-119)
Performing Test Location(s)	All Sidra

Reference intervals					
Test	Result				
HCG Non-Pregnant Females	Negative – No detectable hCG level occurs when using the Clinitest hCG Pregnancy Test.				
HCG Pregnant Females	 100 mIU/mL on the day of the first missed menstrual period. Peak levels of hCG occur at 8-10 weeks after the last menstrual period and then decline to lower values for the remainder of the pregnancy. hCG levels rapidly decrease and usually a return to normal within days of delivery. 				



Test Orderable	POCT COVID -19 Antigen test
Description	Rapid COVID-19 Antigen testing
Specimen	Nasopharyngeal swab specimen
Minimum Volume	Swab
Testing Interval	Specimens may be stored at room temperature for up to 1 hours or at 2-8°C/ 36-46°F for up to 4 hours prior to testing.
Devices in Use	N/A
Method	Rapid chromatographic immunoassay for the qualitative detection
Parameters Measured	SARS-CoV-2
Reference	PRO-O-Sidra Medicine Pathology Laboratory Specimen Collection Guide, PTH-PRO-961
Performing Test Location(s)	All Sidra





Test Orderable	POCT Avoximeter
Description	Oxyhemoglobin saturation (%HbO ₂)
Specimen	Heparinised or EDTA Anticoagulant whole blood, Freshly Drawn
	whole blood into a plain syringe
Minimum Volume	
Testing Interval	For heparinised vacutainer or EDTA vacutainer filled to labelled capacity test within 10 minutes of collection. For fresh whole blood collected into a plain syringe test within 3
	minutes of collection, but ideally immediately.
Devices in Use	Avoximeter 1000E
Method	Optical density record of the sample at each of the 5 wavelengths
	and from the data obtained calculates the result.
Parameters Measured	%HbO ₂
Reference	PRO-O-Avoximeter 1000E, PTH-PRO-903
Performing Test Location(s)	Cardiology (Cath Lab)

Reference Intervals											
Assay Display	Assay Description	Sample Type	Age From	Age To	Sex	Reference Low	Reference High	Critical Low	Critical High	Linear Low	Linear High
POC-O2Hb	POC O2Hb	Art Only	0 Minutes	150 Years	All	94	98			0	100

Division of Hematopathology



Hematology and Coagulation

Test Name	Acid Gel Electrophoresis
Synonym(s)	Hemoglobin Variant Investigation
Testing Status	In House
Routine TAT	1-2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Alkaline Gel Electrophoresis
Synonym(s)	Hemoglobin Variant Investigation
Testing Status	In house
Routine TAT	1-2weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Anti Xa Level (LMWH/UFH)
Synonym(s)	Low Molecular Weight Heparin, Unfractionated Heparin
Testing Status	In House
Routine TAT	1 week
Urgent TAT	8 hours
STAT TAT	4 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
	Samples should be collected four (4) hours following heparin dose
	administration.
Clinical Information	



Test Name	Antithrombin Activity
Synonym(s)	AT III Activity
Testing Status	In-House
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Antithrombin (AT, formerly called "Antithrombin III") is an enzyme which inhibits thrombin, and thereby opposes the action of the coagulation cascade. AT's effects are potentiated by heparin. If AT activity is reduced, the patient is somewhat more likely to clot. AT deficiency is one of the more common inherited causes of venous thromboembolism, along with Factor 5 Leiden, Prothrombin gene mutation, Protein S deficiency, and Protein C deficiency. AT activity may also be reduced in various acquired states, including liver failure, D.I.C./sepsis, and in patients on ECMO or on heparin. AT activity is generally mildly reduced in patients immediately following any major thrombotic event, including physiologic thrombus formation. Usually it is not recommended to test AT in the immediate post- thrombotic period; rather, testing should be deferred until several weeks after any event and after any anticoagulation has been discontinued. The exception to this rule is in some neonates with acute thrombosis, in whom it may be important to differentiate between patients with almost zero AT activity and those with milder deficits.



Test Name	APTT
Synonym(s)	Activated Partial Thromboplastin Time, Partial Thromboplastin
	Time, PTT
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Activated partial thromboplastin time (aPTT or just PTT) is a screening test of coagulation function. It tests factors in the intrinsic and common pathways: i.e. factors 12, 11, 9, 8, 10, 5, 2, and 1. An abnormal aPTT is seen in patients with a deficiency or inhibitor of one or more of these factors. In general, factor activity must be less than 50% to cause a prolongation of the aPTT. If a patient has a normal aPTT, the listed factors are most likely normal. The aPTT does not test for the activity of Factor 13, and does not test platelet function. aPTT is commonly used to monitor patients on unfractionated heparin: for many such patients, the target aPTT is two to three times the upper limit of the normal aPTT. Patients on low molecular weight heparin (LMWH) do not have a consistent elevation in aPTT, and this test is not appropriate for monitoring LMWH patients.



Test Name	APTT Mixing Study
Synonym(s)	
Testing Status	In-House
Routine TAT	8 hours
Urgent TAT	4 hours
STAT TAT	2 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	In a patient with a prolonged aPTT, the aPTT mixing study is used to determine the mechanism for this prolongation: factor deficiency (e.g. a deficiency of factor 12, 11, 9, 8, 10, 5, 2, or 1) or inhibitor (e.g. due to heparin or lupus anticoagulant). For the mixing study to work, the patient's aPTT must be at least moderately prolonged: with mildly prolonged aPTTs the mixing study cannot be interpreted. In the mixing study, plasma from the patient is mixed 50/50 with plasma from a normal person. Then we compare the aPTT from the patient with the aPTT from the mixed patient/normal plasma. If mixing "corrects" the patient's aPTT back to normal, then the patient's prolongation is likely due to a factor deficiency (which the addition of normal plasma has corrected). If mixing does not "correct" the patient's prolonged aPTT, then the prolongation is likely due to an inhibitor (such as heparin or a lupus anticoagulant). The mixing study is a screening tool only. It does not provide a final diagnosis, and some complex patients may give atypical mixing study results. Mixing studies are reflex ordered within the laboratory and cannot be ordered directly from PowerChart.



Test Name	Body Fluid Cell Count
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: 1 h
Specimen Type(s)	Fluid
Container(s)	0-150 years: Sterile Container
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	



Test Name	Body Fluid Crystal Analysis
Synonym(s)	Crystal Exam Body Fluid
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Fluid
Container(s)	0-150 years: Sterile Container
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	CBC with Diff
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Coagulation Profile
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 45 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	D-Dimer
Synonym(s)	DDimer
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: 1 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The D dimer is a protein fragment released when fibrin clot is degraded by plasmin. The production of D dimer is a normal consequence of clot formation, when normal clot remodelling occurs. The presence of detectable levels of D dimer generally means that clot is forming or has formed in the patient: the test does not distinguish between physiological clot and pathological clot. The most robust clinical use of the D dimer assay is to exclude pulmonary embolism or deep vein thrombosis: a negative D dimer essentially rules out those processes. (In contrast, a positive D dimer is NOT diagnostic of P.E. or D.V.T.) This assay is also often used as part of a "D.I.C. panel": if the aPTT and PT/INR are elevated, platelets are low, and D dimer is positive, the pattern is consistent with (but not diagnostic of) D.I.C. Note that adult and pediatric inpatients may have a positive D dimer for which no satisfactory explanation can be found. A positive D dimer is not necessarily a pathological finding. D dimer results should be interpreted with caution.



Test Name	ESR
Synonym(s)	Erythrocyte Sed Rate
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Erythrocyte Sedimentation Rate provides a very nonspecific
	measure of the patient's inflammatory status. It should be
	interpreted with caution.



Test Name	Factor 10 Activity
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	N/A
STAT TAT	N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 10 activity is a measure of the functional level of coagulation Factor 10 (Factor X) in the patient's plasma. Factor 10 is a factor in the common pathway. Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. In adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT or PT). In children, the reference range will depend on the patient's age. A low level of Factor 10 may be seen in patients with D.I.C., vitamin K deficiency, warfarin treatment, liver failure, or very rarely in congenital deficiencies. A dysfunctional Factor 10 will also lead to a low level of Factor 10 activity, but this is extremely rare.



Test Name	Factor 11 Activity
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 7 d
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: 4 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 11 activity is a measure of the functional level of coagulation Factor 11 (Factor XI) in the patient's plasma. Factor 11 is a factor in the intrinsic pathway. Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. in adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT). In children, the reference range will depend on the patient's age. A low level of Factor 11 may be seen in patients with congenital deficiency (so-called Hemophilia C) or with D.I.C A dysfunctional Factor 10 will also lead to a low level of Factor 11 activity, but this is extremely rare.



Test Name	Factor 12 Activity
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 7 d
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: 4 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 12 activity is a measure of the functional level of
	coagulation Factor 12 (Factor XII) in the patient's plasma. Factor
	12 is a factor in the intrinsic pathway.
	Factor 12 is very important to the in vitro intrinsic coagulation
	pathway: if Factor 12 is deficient, the aPTT is typically severely
	prolonged. However, the role of Factor 12 in vivo is not clear:
	patients who are deficient in Factor 12 generally do not have any
	increase in bleeding risk, and Factor 12 deficiency is usually
	considered to be clinically irrelevant.
	The Factor 12 assay is usually performed as a follow up in patients
	with very prolonged aPTT results but who may have no bleeding
	history. There is no need to replace Factor 12 in a deficient
	patient.



Test Name	Factor 13 Screen
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Factor 2 Activity
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 2 activity is a measure of the functional level of coagulation Factor 2 (Factor II) in the patient's plasma. Factor 2 (prothrombin) is a factor in the common pathway. The active form, thrombin, is inhibited by heparin. Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. In adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT or PT). In children, the reference range will depend on the patient's age. A low level of Factor 2 may be seen in patients with vitamin K deficiency, warfarin treatment, D.I.C., liver failure, or very rarely in congenital deficiencies. A dysfunctional Factor 2 will also lead to a low level of Factor 2 activity, but this is extremely rare.



Test Name	Factor 5 Activity
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
Crecial Handling	in <u>APPENDIX B</u> Fill to line
Special Handling Clinical Information	The Factor 5 activity is a measure of the functional level of
	coagulation Factor 5 (Factor V) in the patient's plasma. Factor 5 is a factor in the common pathway. (Please note that the "Factor 5 activity" test is completely unrelated to "Factor 5 Leiden": the latter is an inherited prothrombotic disorder.) Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. In adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT or PT). In children, the reference range will depend on the patient's age. A low level of Factor 5 may be seen in patients with D.I.C., liver failure, or very rarely in congenital deficiencies. A dysfunctional Factor 5 will also lead to a low level of Factor 5 activity, but this is extremely rare. In some patients with severe hepatic dysfunction, the factor 5 activity is used to assess the liver's synthetic function.



Test Name	Factor 7 Activity
Synonym(s)	
Testing Status	In House
Routine TAT	7 days
Urgent TAT	8 hours
STAT TAT	4 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 7 activity is a measure of the functional level of
	coagulation Factor 7 (FactorVII) in the patient's plasma. Factor 7
	is a factor in the extrinsic pathway.
	Factor activity is measured in percent, where 100% represents
	the average normal activity in healthy patients. For most
	coagulation factors in adults, the reference range is
	approximately 50% to 150%. in adults, a factor level of 50% is
	considered normal and will not lead to abnormal bleeding or
	abnormal results on coagulation tests (e.g. PT). In children, the
	reference range will depend on the patient's age.
	A low level of Factor 7 may be seen in patients with vitamin K
	deficiency, D.I.C., hepatic failure leading, and (rarely) with
	inherited deficiency.



Test Name	Factor 8 Activity
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 7 d
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: 4 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 8 activity is a measure of the functional level of coagulation Factor 8 (Factor VIII) in the patient's plasma. Factor 8 is a factor in the intrinsic pathway. Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. in adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT). In children, the reference range will depend on the patient's age. A low level of Factor 8 may be seen in patients with congenital deficiency (so-called Hemophilia A) or with D.I.C Low Factor 8 activity is also seen with coagulation inhibitors, which may be specific to Factor 8 (as in Hemophilia A with inhibitors, or in Acquired Hemophilia A) or nonspecific inhibitors (such as lupus anticoagulant). In cases where a specific Factor 8 inhibitor is suspected, please contact the Hematopathologist.



Test Name	Factor 8 Inhibitor
Synonym(s)	Factor 8 Bethesda
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Factor 8 inhibitors are seen most commonly in patients with Hemophilia A (congenital deficiency of Factor 8) who develop
	antibodies against the exogenous Factor 8 with which they are
	treated. Younger patients and patients with more severe
	hemophilia are more likely to develop these antibodies.
	Factor 8 inhibitors are also seen in patients with Acquired
	Hemophilia A, which is an autoimmune disease classically seen in
	peripartum women and in eldery patients of either sex.



Test Name	Factor 9 Activity
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 7 d
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: 4 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	The Factor 9 activity is a measure of the functional level of coagulation Factor 9 (Factor IX) in the patient's plasma. Factor 9 is a factor in the intrinsic pathway. Factor activity is measured in percent, where 100% represents the average normal activity in healthy patients. For most coagulation factors in adults, the reference range is approximately 50% to 150%. in adults, a factor level of 50% is considered normal and will not lead to abnormal bleeding or abnormal results on coagulation tests (e.g. aPTT). In children, the reference range will depend on the patient's age. A low level of Factor 9 may be seen in patients with congenital deficiency (so-called Hemophilia B), with vitamin K deficiency, in patients with hepatic failute, or with D.I.C Low Factor 9 activity is also seen with coagulation inhibitors, which may be specific to Factor 9 (as in Hemophilia B with inhibitors) or nonspecific inhibitors (such as lupus anticoagulant). In cases where a specific Factor 9 inhibitor is suspected, please contact the Hematopathologist.



Test Name	Factor 9 Inhibitor
Synonym(s)	Factor 9 Bethesda
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Factor 9 inhibitors are seen most commonly in patients with Hemophilia B (congenital deficiency of Factor 9) who develop antibodies against the exogenous Factor 9 with which they are treated. Younger patients and patients with more severe hemophilia are more likely to develop these antibodies.



Factor V Leiden
Sendaway
2-4 weeks
Urgent TAT: N/A
STAT TAT: N/A
Blood
0-1/2y: Map EDTA 1/2y-150y: EDTA
Please refer to the Non-Micro Collection Quick Reference Guide
in <u>APPENDIX B</u>
HMC
 Factor 5 Leiden (abbreviated F5L or FVL) is the most common inherited prothrombotic disorder. In normal individual, activated Protein C (aided by Protein S) cleaves Factor 5 and Factor 8; this inhibits clot formation. In patients with F5L, however, the mutant Factor 5 resists this cleavage. Therefore this mutation leads to an increased clotting tendency. The F5L mutation is the most important cause of "activated protein C resistance". F5L is implicated primarily in deep venous thrombosis and pulmonary embolism, rather than arterial thrombosis. Other venous thromboses (e.g. cerebral, mesenteric) are also



Test Name	Fibrinogen Activity
Synonym(s)	Fbg, Fg
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Fibrinogen (Factor 1) is a factor in the common pathway. It is converted by thrombin (activated factor 2) into fibrin monomers, which are in turn linked by Factor 13a into fibrin polymers. These fibrin polymers form the stable clot which is the end result of the coagulation cascade. This measurement of the fibrinogen level is an activity measurement. A low level of fibrinogen can be caused by acquired or inherited fibrinogen deficiency, or by dysfunctional fibrinogen (dysfibrinogenemia). Fibrinogen deficiency is most commonly caused by excessive consumption, as in D.I.C Reduced fibrinogen production is less common, and may be inherited or acquired (e.g. end-stage hepatic failure).



Test Name	Fibrinogen Antigen
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Glucose-6-PD Quantitative
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA, Map EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Glucose-6-PD Screen
Synonym(s)	G6PD screen
Testing Status	In-House
Routine TAT	Routine TAT: 3 d
Urgent TAT	Urgent TAT: 24h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Heinz Body Stain
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Hematopathologist's Review
Synonym(s)	Blood Film Review, Peripheral Smear Review
Testing Status	In-House
Routine TAT	Routine TAT: 24 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: 1 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	The hematopathologist peripheral smear review is performed automatically in the lab for abnormal CBC specimens which meet certain criteria, whether or not the smear review has been ordered by the clinician. If the smear review is separately ordered by the clinician, then the hematopathologist will report on the blood smear morphology whether or not the CBC is abnormal. This test should be ordered when the differential diagnosis includes undiagnosed clinically significant blood cell diseases, including hemolysis, leukemia, sickle cell disease, platelet function disorders, and so on.



Test Name	Hemoglobin Variant Investigation
Synonym(s)	Hb A2, Hb Electrophoresis, Hb F, Hb S
Testing Status	In-House
Routine TAT	Routine TAT: 2 weeks
Urgent TAT	Urgent TAT: 24h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Heparin PF4 Antibody
Synonym(s)	HIT Screen, PF4 Antibody
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Micro Plain 1/2y-150y: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	JAK2 V617F Mutation
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Lupus Anticoagulant
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	"Lupus anticoagulant" refers to a family of antiphospholipid and antiphosphoprotein autoantibodies which interfere with coagulation testing in the laboratory (i.e. they act in vitro as anticoagulants). In the patient, they do not usually act as anticoagulants: in adults they frequently have a prothrombotic effect, while in children they generally are clinically insignificant. These autoantibodies are often seen in patients with autoimmune diagnoses, such as lupus, but may be seen in other clinical situations such as following a viral infection (particularly in children). This test relies on a clotting assay called the Dilute Russell Viper Venom Time (DRVVT), which is particularly sensitive to the presence of lupus anticoagulant, as well as the aPTT which is somewhat less sensitive. The test is not 100% sensitive, so not all lupus anticoagulants will be identified by this method. Furthermore, the test does not indicate the clinical severity of the antibody in the patient: it only reveals the presence of the antibody. Clinical correlation is required.



Test Name	Leucocyte Adhesion Deficiency Screen
Synonym(s)	LAD Screen
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Collect Sun-Thurs only, before 10 am
Clinical Information	



Test Name	Lymphocyte Subsets
Synonym(s)	B and T Cell Subsets
Testing Status	In-house
Routine TAT	4 days
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Collect Sun-Thurs only, before 10 am
Clinical Information	



Test Name	Malaria Screen
Synonym(s)	Thick and Thin Smear
Testing Status	In-House
Routine TAT	8 hours
Urgent TAT	2 hours
STAT TAT	1 hour
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Manual Diff-Count
Synonym(s)	
Testing Status	In-House
Routine TAT	24 hours
Urgent TAT	8 hours
STAT TAT	2 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Mononucleosis Screen
Synonym(s)	Glandular Fever
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Morphology
Synonym(s)	
Testing Status	In-House
Routine TAT	24 hours
Urgent TAT	8 hours
STAT TAT	2 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	



Test Name	MTHFR
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Oncology Flow Cytometry
Synonym(s)	Onc Flow
Testing Status	In House
Routine TAT	2 working days
Urgent TAT	Preliminary report might be released within 8 hours for acute leukemia
STAT TAT	N/A
Specimen Type(s)	Blood or Bone marrow
Container(s)	EDTA
	On rare occasions, CSF or other body fluids may be processed.
	Please discuss with duty Hematopathologist or Clinical Scientist
	before collection
Collection volume	1 – 2mL EDTA
Special Handling	For requests over the WEEKEND please notify the
	Hematopathologist or Clinical Scientist.
Clinical Information	For investigation of acute leukemia



Test Name	Plasminogen Activator Inhibitor
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Plasminogen Assay
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Platelet Function Test – PFA200 (In Vitro Bleeding Time)
Synonym(s)	PFA
Testing Status	In House
Routine TAT	1 working day
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	 Two tubes 1.8mL Citrate Blood sample filled up to the mark on the tube label. (Blue top tube, 3.2% Citrate) In case of high hematocrit (>55%) contact the lab before extracting blood for all coagulation testing because special tube(s) will be provided.
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	 You must contact the Hematology-Coagulation Lab (Ext. 32961) before collecting the specimen as the sample has 4 hours validity. Do not cerntrifuge
Patient Preparation	 Patient must avoid aspirin, all NSAID and antiplatelet drugs for 7-10 days prior to collection. Patients must refrain from eating chocolate, triglyceride, caffeine, garlic, ginger, purple grape juice, tomato, wine, green tea, berries, turmeric, vitamin E and gingko biloba supplements for 8-10 hours prior to the blood collection as these can interfer with test results.
Clinical Information	



Test Name	Protein C Activity
Synonym(s)	
Testing Status	In-House
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Protein C is a vitamin K dependent enzyme which (when
	activated, and with the assistance of Protein S) acts in an
	antithrombotic manner: it cleaves Factor 5, thereby opposing the
	coagulation cascade.
	If Protein C activity is reduced, the patient is somewhat more
	likely to clot. Protein C deficiency is one of the more common
	inherited causes of venous thromboembolism, along with Factor
	5 Leiden, Prothrombin gene mutation, Protein S deficiency, and
	Antithrombin deficiency. Most deficiencies are mild, and the
	corresponding increase in thrombotic risk is mild. Rarely a
	newborn will have a severe homozygous mutation and will
	present with neonatal purpura fulminans.
	Protein C activity may also be reduced in various acquired states,
	including liver failure, vitamin K deficiency, and sepsis.



Test Name	Protein C Antigen
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Protein S Activity
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	Protein S is a vitamin K dependent enzyme which (working
	together with activated Protein C, aPC) acts in an antithrombotic
	manner. Protein S is a cofactor for aPC-mediated cleavage of
	Factor 5, thereby opposing the coagulation cascade.
	If Protein S activity is reduced, the patient is somewhat more
	likely to clot. Protein S deficiency is one of the more common
	inherited causes of venous thromboembolism, along with Factor
	5 Leiden, Prothrombin gene mutation, Protein C deficiency, and
	Antithrombin deficiency.
	Protein S activity may also be reduced in various acquired states,
	including pregnancy and with oral contraceptive use. It is also
	often reduced in patients with liver failure, vitamin K deficiency,
	D.I.C., H.I.V., and nephrotic syndrome.



Test Name	Protein S Antigen - Free
Synonym(s)	
Testing Status	In-House
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	Prothrombin Gene Mutation
Synonym(s)	G20210A
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	НМС
Clinical Information	



Test Name	Prothrombin Time
Synonym(s)	INR, PT
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	PT Mixing Study
Synonym(s)	
Testing Status	In-House
Routine TAT	8 hours
Urgent TAT	4 hours
STAT TAT	2 hours
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	In a patient with a prolonged PT, the PT mixing study is used to determine the mechanism for this prolongation: factor deficiency (e.g. a deficiency of factor 7, 10, 5, 2, or 1) or inhibitor (e.g. due to heparin or lupus anticoagulant). For the mixing study to work, the patient's PT must be at least moderately prolonged: with mildly prolonged aPTTs the mixing study cannot be interpreted. In the mixing study, plasma from the patient is mixed 50/50 with plasma from a normal person. Then we compare the PT from the patient with the PT from the mixed patient/normal plasma. If mixing "corrects" the patient's PT back to normal, then the patient's prolongation is likely due to a factor deficiency (which the addition of normal plasma has corrected). If mixing does not "correct" the patient's prolonged PT, then the prolongation is likely due to an inhibitor (such as heparin or a lupus anticoagulant). The mixing study is a screening tool only. It does not provide a final diagnosis, and some complex patients may give atypical mixing study results. Mixing studies are reflex ordered within the laboratory and cannot be ordered directly from PowerChart.



Test Name	PT Mixing Study-CareSet
Synonym(s)	
Testing Status	In House
Routine TAT	8 hours
Urgent TAT	4 hours
STAT TAT	2 hours
Specimen Type(s)	
Container(s)	
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Pyruvate Kinase Quantitative
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	



Test Name	Pyruvate kinase screen
Synonym(s)	PK screen
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Reticulocyte Count
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 8 h
Urgent TAT	
STAT TAT	
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Reticulocytes are immature red blood cells (RBCs) which may be differentiated from mature RBCs because they contain excess RNA. It usually takes approximately 1 day in the peripheral blood for a reticulocyte to lose its RNA and become a fully mature RBC. Under normal circumstances, approximately 1% of a patient's RBCs are reticulocytes. The reticulocyte count is a measure of how well the bone marrow is responding to anemia. In a patient with anemia, an elevated reticulocyte count means the marrow is responding appropriately, and the anemia is therefore likely due to blood loss or hemolysis. If an anemic patient has a low or normal reticulocyte count, then the anemia may be due instead to impaired RBC production in the bone marrow. Note that it can take up to 24h for an appropriate reticulocyte response to occur in an acutely anemic patient. For assistance in interpreting reticulocyte count results, please contact the lab.



Test Name	Sickle Cell Solubility Test
Synonym(s)	Hemoglobin S Solubility
Testing Status	In-House
Routine TAT	8 hours
Urgent TAT	2 hours
STAT TAT	30 minutes
Specimen Type(s)	Blood
Container(s)	0-1/2y: Map EDTA 1/2y-150y: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Thrombin Time
Synonym(s)	TT
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	von Willebrand Factor Multimer Assay
Synonym(s)	
Testing Status	Sendaway
Routine TAT	2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Fill to line
Clinical Information	



Test Name	von Willebrand Panel
Synonym(s)	vWF
Testing Status	In-House
Routine TAT	Routine TAT: 7 d
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: Citrate 1/2y-150y: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Deliver in 30 min
Clinical Information	von Willebrand disease (VWD) is the most common inherited bleeding disorder, affecting approximately 1% of individuals worldwide. It leads to a bleeding tendency which may vary from trivial to severe. In VWD, the patient is deficient in von Willebrand factor (VWF), or has a dysfunctional VWF. In normal patients, VWF cross-links platelets to exposed subendothelial collagen, thereby promoting the formation of the platelet plug at the site of a vascular injury. VWF also protects circulating Factor 8 from proteolytic degradation. In the absence of normal levels of VWF, the patient's ability to form the platelet plug is impaired, and levels of Factor 8 may be reduced. The von Willebrand panel includes a measurement of VWF activity and a measurement of the level of the VWF protein in the blood. Rarely a more elaborate assessment of VWF (the "VWF multimer assay") will also be performed, only if necessary.



Immunology

Test Name	Acetylcholine Receptor Binding Antibody
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	ADAMTS13 Activity and Inhibitor
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Citrate
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	Adrenal Antibodies
Synonym(s)	21 Hydroxylase Antibodies
Testing Status	Sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	Allergen
Synonym(s)	
Testing Status	Dependent on allergen being tested
Routine TAT	In House: 7 days
	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Allergen-specific IgE tests are listed in Powerchart. If the allergen
	required is not listed, order "Allergen, Other" and specify your
	request in "Order Comments."



Test Name	Anti-Beta2 Glycoprotein Antibodies
Synonym(s)	Beta 2 glycoprotein IgG/IgM
Testing Status	In-house
Routine TAT	1 week
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Anti-Cyclic Citrullinated Peptide Antibody
Synonym(s)	Anti-CCP
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Anti-Enterocyte Antibodies
Synonym(s)	Anti-Goblet Cell Antibody
Testing Status	Sendaway
Routine TAT	6-10 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	MML
Clinical Information	



Test Name	Anti-Gastric-Parietal Cell Ab
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	HMC
Clinical Information	



Test Name	Antiglomerular Basement Membrane Antibody
Synonym(s)	Anti-GBM
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Anti-IgA Antibody
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	Anti-LKM
Synonym(s)	LKM Antibodies
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Plain
	2y-150y: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	НМС
Clinical Information	



Test Name	Antimitochondrial Antibody
Synonym(s)	Mitochondrial Antibody
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Antinuclear Antibody Profile
Synonym(s)	ANA
Testing Status	In-house
Routine TAT	1 week
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Anti-Smooth Muscle Ab
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	HMC
Clinical Information	



Test Name	Antistreptolysin O Titre
Synonym(s)	ASO
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Auto-Immune Encephalitis Evaluation
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	C3/C4 Complement	
Synonym(s)		
Testing Status	In-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole blood	
Container(s)	0-2 years: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling		
Clinical Information		



Test Name	Cardiolipin Antibody Profile
Synonym(s)	
Testing Status	In-house
Routine TAT	1week
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Complement Total
Synonym(s)	CH50
Testing Status	Sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Send to lab immediately - MML
Clinical Information	



Test Name	DNA Antibody (Double-stranded)
Synonym(s)	Anti DS-DNA
Testing Status	In-house
Routine TAT	1 week
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	ENA
Synonym(s)	
Testing Status	In-house
Routine TAT	1-2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Only performed for Rheumatology, or if ANA positive



Test Name	Endomysial Antibody IgA
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	Added routinely by Pathology to new positive IgA tTG results.
	Otherwise requesting limited to Gastroenterology.



Test Name	Gliadin Peptide Antibody Screen
Synonym(s)	Deamidated Gliadin Peptide Antibodies
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Test Name	Histone Antibody
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	HLA B27
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	HLA B51
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	HLA Typing
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Routine TAT: Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	IgG Subclasses
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	HMC
Clinical Information	



Test Name	Immunoglobulins Total	
Synonym(s)	lgA, lgG,lgM	
Testing Status	In-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole blood	
Container(s)	0-2 years: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling	НМС	
Clinical Information		



Test Name	Intrinsic Factor Antibody
Synonym(s)	
Testing Status	Sendaway
Routine TAT	Routine TAT: Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	НМС
Clinical Information	



Test Name	Neutrophil Cytoplasmic Abs
Synonym(s)	p ANCA /c ANCA, ANCA
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	НМС
Clinical Information	



Test Name	Neutrophil Cytoplasmic Antibody c ANCA
Synonym(s)	c ANCA
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Neutrophil Cytoplasmic Antibody p ANCA
Synonym(s)	p ANCA
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Neutrophil Function Test
Synonym(s)	Neutrophil Oxidative Burst; Phagoburst; DHR
Testing Status	In-House
Routine TAT	Routine TAT: 4 days
Urgent TAT	Urgent TAT: 8 h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	Please contact Immunology in advance at ext. 32960 or 32961 to
	provide clinical background.
	The sample can only be taken Sun-Thurs before 11am.
	Deliver sample tube within 30 min from venepuncture.
Clinical Information	Neutrophil oxidative burst function is measured by flow cytometry.
	Measurement of the neutrophil respiratory burst is used to
	identify patients with Chronic Granulomatous Disease (CGD) and
	carriers of this condition. CGD is an inherited disorder
	characterised by recurrent bacterial and fungal infections,
	formation of chronic granulomas and poor wound healing.
	Patients with CGD have mutations which affect the NADPH
	subunits resulting in defective superoxide generation and
	intracellular killing.



Test Name	Rheumatoid Factor	
Synonym(s)		
Testing Status	IN-House	
Routine TAT	3 days	
Urgent TAT	8 hours	
STAT TAT	N/A	
Specimen Type(s)	Whole Blood	
Container(s)	0-2 yrs: Lithium heparin	2-150 years: SST
Collection minimum volume	0-2 years: 0.5 mL	2-150 years: 1 mL
Special Handling		
Clinical Information		



Test Name	Striated Muscle Antibodies
Synonym(s)	Skeletal Muscle Antibodies
Testing Status	Sendaway
Routine TAT	Sendaway: up to 2 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	MML
Clinical Information	



Test Name	Tissue Transglutaminase Ab IgA
Synonym(s)	Anti-TTG, TTG
Testing Status	In House
Routine TAT	7 days
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-2y: Micro SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	This order is for IgA TTG only. The IgG TTG will be tested in cases
	of IgA deficiency only.



Test Name	Total IgE
Synonym(s)	
Testing Status	In House
Routine TAT	7 days
Urgent TAT	N/A
STAT TAT	N/A
Specimen Type(s)	Blood
Container(s)	0-2y: SST
	2y-150y: SST
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Type 1 DM Antibody Evaluation
Synonym(s)	Anti-GAD65 Antibody, Anti-insulin Antibody, Anti-islet Cell
	Antibody
Testing Status	sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	MML
Clinical Information	



Transfusion Medicine

Test Name	ABORh
Synonym(s)	Blood Type
Testing Status	In-House
Routine TAT	Routine TAT: 3 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	The ABO and Rh typing indicates the presence of specific red cell
	antigens of 2 of the various blood group systems. Determination
	of blood type and possible presence of antibody in patients who
	may require future transfusions.

Test Name	ABORh Retype
Synonym(s)	Blood Type
Testing Status	In-House
Routine TAT	Routine TAT: 3 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 45 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	The ABO and Rh typing indicates the presence of specific red cell antigens of 2 of the various blood group systems. Determination of blood type and possible presence of antibody in patients who may require future transfusions.



Test Name	Antibody Screen
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 3 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 45 min
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Transfusion and pregnancy are the primary means of sensitization
	to red cell antigens. 3% of the general population possess
	irregular red cell alloantibodies. Such antibodies may cause
	hemolytic disease of the newborn or hemolysis of transfused
	donor red blood cells.
	Autoantibodies react against the patient's own red cells as well as
	the majority of cells tested. Autoantibodies can be clinically
	benign or can hemolyze the patient's own red blood cells, such as
	in cold agglutinin disease or autoimmune hemoyltic anemia.



Test Name	Cord Blood Type and DAT
Synonym(s)	Fetal Blood Type and DAT, Newborn Blood Group and DAT
Testing Status	In-House
Routine TAT	Routine TAT: 3 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: 1 h
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Crossmatch RBCs
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Direct Antiglobulin Test
Synonym(s)	Coombs Test, DAT Poly
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 2 h
STAT TAT	STAT TAT: 1 h
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	IgG antibody or complement components secondary to the action
	of IgM antibody may be present on the patient's own RBCs or on
	transfused RBCs



Test Name	Fetomaternal Hemorrhage
Synonym(s)	
Testing Status	In-house
Routine TAT	Routine TAT: 3 d
Urgent TAT	Urgent TAT: 24h
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-150 years: EDTA
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	Fetomaternal hemorrhage (FMH) occurs normally throughout pregnancy in minute amounts with increasing volumes during the later stages of gestation. A significant difference in the RBC antigenicity between the fetus and mother can result in allosensitization of the maternal immune system either before or after parturition. The maternal antibodies to the fetal RBC antigens may be clinically silent or cause life-threatening autoimmune sequelae for the current or subsequent pregnancies. Such sensitization can occur with any RBC antigen mismatch, but the highest frequency and profound clinical consequences occur with Rh or D-antigen mismatches. Detection and enumeration of fetal RBCs is an essential part of the management of those patients with FMH treated with Rh immune globulin (RhIG) preparations. The use of RhIG prophylaxis is a universal practice, but dosing amounts and schedules have regional variations. Hence, the sensitivity and specificity of detection assays for FMH is a critical factor in therapeutic efficacy and subsequent clinical outcome.



Test Name	Group and Screen
Synonym(s)	Group and Save, Type and Screen
Testing Status	In-House
Routine TAT	Routine TAT: 3 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 45 min
Specimen Type(s)	
Container(s)	
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfusion Medicine Interpretation
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 1-7 d
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Referred Transfusion Test
Synonym(s)	
Testing Status	sendaway
Routine TAT	Sendaway: 2-4 weeks
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	TML Review
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	Blood
Container(s)	0-1/2y: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfuse Cryoprecipitate Product
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfuse Fetus RBCs Product
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 4 h
STAT TAT	STAT TAT: 2 h
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfuse MTP Products
Synonym(s)	Transfuse MTP 1, Transfuse MTP 2, Transfuse MTP 3
Testing Status	In-House
Routine TAT	No TAT available
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: 10 min
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfuse Plasma Product
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	



Test Name	Transfuse Platelets product
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfuse RBCs Product
Synonym(s)	
Testing Status	In-House
Routine TAT	Routine TAT: 4 h
Urgent TAT	Urgent TAT: 1 h
STAT TAT	STAT TAT: 30 min
Specimen Type(s)	Blood
Container(s)	0-150 years: Blood Product
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	



Test Name	Transfusion Reaction Workup
Synonym(s)	
Testing Status	In-House
Routine TAT	5 – 10 Days
Urgent TAT	Urgent TAT: N/A
STAT TAT	STAT TAT: N/A
Specimen Type(s)	
Container(s)	
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide
	in <u>APPENDIX B</u>
Special Handling	
Clinical Information	

Division of Microbiology and Virology





Microbiology

Test Name	Bacterial Vaginosis Gram Stain
Division	Microbiology and Virology
Synonyms & Care Sets	B Vag Prep, BV Score
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Vaginal Swab
Specimen Requirement	Vaginal Swab: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Blood Component Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Blood Unit, Other, Platelets
Specimen Requirement	Anaero BACTEC (Volume: 8 - 10 mL)
	Aero BACTEC (Volume: 8 - 10 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	



Test Name	Blood Culture Adult
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Blood Broviac, Blood CVC, Blood Peripheral, Blood PICC, Blood
	Port-A-Cath, Blood Triple Lumen, Hickman Line, Other, Quinton
	Permcath
Specimen Requirement	Anaero BACTEC (Volume: 8 - 10 mL)
	Aero BACTEC (Volume: 8 - 10 mL)
Additional Collection	Pafer to PPO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.



Test Name	Blood Culture Pediatric
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Blood Broviac, Blood CVC, Blood Peripheral, Blood PICC, Blood
	Port-A-Cath, Blood Triple Lumen, Hickman Line, Other, Quinton
	Permcath
Specimen Requirement	Peds Plus BACTEC (Volume: 1 - 3 mL; Neonates: 0.5 mL)
Additional Collection	Pafar to PBO O Microhiology Specimon Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.



Test Name	Body Fluid Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Amniotic Fluid, Ascitic Fluid, Breast Milk, Dialysate Fluid, Other, Pericardial Fluid, Peritoneal Fluid, Pleural Fluid, Synovial Fluid
Specimen Pequirement	Sterile Container (Min. Vol.: 1 mL)
Specimen Requirement	
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Acter to the o microbiology specificit concetion
Special Handling	Transport to the lab immediately.



Test Name	Bone Marrow Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Bone Marrow, Other
Specimen Requirement	Aero BACTEC (Min. Vol.: 1 mL)
Additional Collection	Pater to DPO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.



Test Name	Brucella Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Brucella Blood Culture, Brucella Culture Bottle
Testing Status	In-House
Turn-Around Time	Routine TAT: 10 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	Blood, Body Fluid, Bone Marrow, Other, Tissue/Biopsy
Specimen Requirement	Blood: Aero BACTEC (Min. Vol.: 1 mL)
	Blood: Anaero BACTEC (Min. Vol.: 1 mL)
	Body Fluid: Aero BACTEC (Min. Vol.: 1 mL)
	Body Fluid: Anaero BACTEC (Min. Vol.: 1 mL)
	Bone Marrow: Sterile Container (Min. Vol.: 1 mL)
	Other: Sterile Container
	Tissue/Biopsy: Sterile Container
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab immediately.



Test Name	Candida auris Screen
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 2 days
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Axilla-Groin
Specimen Requirement	Axilla-Groin: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Catheter Tip Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Cath Tip Culture, IV Tip Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	CSF Shunt Tip, Other, Umbilical Catheter Tip, Vascular Catheter
	Тір
Specimen Requirement	Sterile Container
Additional Collection	Refer to DBO O Microhiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	CPO Screen
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Perianal Swab, Rectal Swab, Stool
Specimen Requirement	Perianal Swab: ESwab
	Rectal Swab: ESwab
	Stool: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Refer to PRO-O-IVIICIODIOIOgy Specifient Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Cryptococcal Antigen Detection
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	Sendaway
Turn-Around Time	Sendaway: 6-8 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	CSF, Serum
Specimen Requirement	CSF: CSF Tube (Min. Vol.: 1 mL)
	Serum: SST (Min. Vol.: 1 mL)
Additional Collection	Defer to DDO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.



Test Name	CSF Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Cerebrospinal Fluid Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive informed immediately
Specimen Type	CSF, Other
Specimen Requirement	Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Defente DDO O Microhiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.



Test Name	Cystic Fibrosis Respiratory Culture
Division	Microbiology and Virology
Synonyms & Care Sets	CF Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Bronchial Biopsy, Bronchial Brush, Bronchial Wash,
	Nasopharyngeal Swab, Nasopharyngeal Wash, Other, Sinus,
	Sputum, Sputum Induced, Throat Swab, Transtracheal Aspirate,
	Transtracheal Biopsy
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Biopsy: Sterile Container
	Bronchial Brush: Sterile Container
	Bronchial Wash: Sterile Container (Min. Vol.: 1 mL)
	Nasopharyngeal Swab: ESwab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 1 mL)
	Other: Eswab/Sterile Container
	Sinus: Sterile Container (Min. Vol.: 1 mL)
	Sputum: Sterile Container (Min. Vol.: 1 mL)
	Sputum Induced: Sterile Container (Min. Vol.: 1 mL)
	Throat Swab: ESwab
	Transtracheal Aspirate: Sterile Container (Min. Vol.: 1 mL)
	Transtracheal Biopsy: Sterile Container
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Ear Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Ear Canal, External Ear, Mastoid Sinus, Other, Tympanic Fluid
Specimen Requirement	Ear Canal: ESwab
	External Ear: ESwab
	Mastoid Sinus: Eswab/Sterile Container
	Other: Eswab/Sterile Container
	Tympanic Fluid: Eswab/Sterile Container
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Environmental Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Other
Specimen Requirement	Eswab/Sterile Container
Additional Collection Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Moisten Swabs before sampling. Transport to the lab within 2 hours.



Test Name	Eye Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Anterior Chamber, Conjuctival Swab, Contact Lens, Cornea,
	Corneal Scraping, Eye Lid, Eye Socket Swab, Eye Swab, Other,
	Posterior Chamber, Vitreous Fluid
Specimen Requirement	Anterior Chamber: Sterile Container (Min. Vol.: 1 mL)
	Conjuctival Swab: ESwab
	Contact Lens: Sterile Container
	Cornea: Sterile Container
	Corneal Scraping: Eswab/Sterile Container
	Eye Lid: ESwab
	Eye Socket Swab: ESwab
	Eye Swab: ESwab
	Other: Eswab/Sterile Container
	Posterior Chamber: Sterile Container (Min. Vol.: 1 mL)
	Vitreous Fluid: Eswab/Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Pafer to PPO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Request Media/Plate on Site. Transport to the lab immediately



Test Name	Fungal Culture
Division	Microbiology and Virology
Synonyms & Care Sets	C Fungal Culture, Calcofluor, KOH
Testing Status	In-House
Turn-Around Time	Routine TAT: 4 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Weekly reports.
Specimen Type	Abdominal Fluid, Amniotic Fluid, BAL, Bronchial Biopsy, Bronchial
	Brush, Bronchial Wash, Burn Swab, CSF, Cyst Fluid, Ear Swab, Eye,
	Genital, Mouth Swab, Other, Pericardial Fluid, Peritoneal Fluid,
	Placenta, Pleural Fluid, Sputum, Synovial Fluid, Throat Swab, Tissu
Specimen Requirement	Abdominal Fluid: Sterile Container (Min. Vol.: 1 mL)
	Amniotic Fluid: Sterile Container (Min. Vol.: 1 mL)
	BAL: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Biopsy: Sterile Container
	Bronchial Brush: Sterile Container
	Bronchial Wash: Sterile Container (Min. Vol.: 1 mL)
	Burn Swab: ESwab
	CSF: Sterile Container (Min. Vol.: 1 mL)
	Cyst Fluid: Sterile Container (Min. Vol.: 1 mL)
	Ear Swab: ESwab
	Eye: Eswab/Sterile Container
	Genital: ESwab
	Mouth Swab: ESwab
	Other: Eswab/Sterile Container
	Pericardial Fluid: Sterile Container (Min. Vol.: 1 mL)
	Peritoneal Fluid: Sterile Container (Min. Vol.: 1 mL)
	Placenta: Eswab/Sterile Container
	Pleural Fluid: Sterile Container (Min. Vol.: 1 mL)
	Sputum: Sterile Container (Min. Vol.: 1 mL)
	Synovial Fluid: Sterile Container (Min. Vol.: 1 mL)
	Throat Swab: ESwab
	Tissue/Biopsy: Sterile Container
	TPN Fluid (for M. furfur): Sterile Container (Min. Vol.: 1 mL)
	Tracheal Asp: Sterile Container (Min. Vol.: 1 mL)
	Urine: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Fungal Culture Blood
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 4 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Weekly reports.
Specimen Type	Blood, Bone Marrow, Other
Specimen Requirement	Myco BACTEC (Min. Vol.: 1 mL)
Additional Collection	Defer to DDO O Microhiology Creating on Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.



Test Name	Fungal Culture Skin, Hair, Nails
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 4 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Weekly reports.
Specimen Type	Hair, Nail, Paronychia, Skin
Specimen Requirement	Sterile Container
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	GC Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Neisseria Gonorrhoeae Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Bartholin's Gland, Endocervix, Eye, IUD, Other, Penis, Urethra,
	Vagina, Vaginal-Anal, Vaginal-Rectal
Specimen Requirement	Bartholin's Gland: ESwab
	Endocervix: ESwab
	Eye: ESwab
	IUD: Sterile Container
	Other: Eswab/Sterile Container
	Penis: ESwab
	Urethra: ESwab
	Vagina: ESwab
	Vaginal-Anal: ESwab
	Vaginal-Rectal: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	הכובו נט רמט-ט-ועוונו טטוטוטצע אפנוווופוו נטוופננוטוו
Special Handling	Transport to the lab within 2 hours



Test Name	Genital Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Culture Genital
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Bartholin's Gland, Endocervix, IUD, Other, Penis, Prostatic
	Secretions, Semen, Ulcer, Urethral swab, Vagina, Vaginal-Anal,
	Vaginal-Rectal
Specimen Requirement	Bartholin's Gland: Eswab/Sterile Container
	Endocervix: ESwab
	IUD: Sterile Container
	Other: Eswab/Sterile Container
	Penis: ESwab
	Prostatic Secretions: Sterile Container (Min. Vol.: 1 mL)
	Semen: Sterile Container (Min. Vol.: 1 mL)
	Ulcer: ESwab
	Urethral swab: ESwab
	Vagina: ESwab
	Vaginal-Anal: ESwab
	Vaginal-Rectal: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab immediately



Test Name	Group B Strep Culture
Division	Microbiology and Virology
Synonyms & Care Sets	GBS Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Other, Urine, Vaginal-Anal, Vaginal-Rectal
Specimen Requirement	Other: Eswab/Sterile Container
	Urine: Sterile Container (Min. Vol.: 1 mL)
	Vaginal-Anal: ESwab
	Vaginal-Rectal: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Helicobacter pylori Antigen Stool
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Stool
Specimen Requirement	Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Insect Identification
Division	Microbiology and Virology
Synonyms & Care Sets	Hashara ID, Lice ID, Scabies ID
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Insect, Unknown
Specimen Requirement	Sterile Container
Additional Collection	Defer to DDO O Microhiology Creating a Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Legionella Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	Sendaway
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Bronchial Aspirate, Bronchial Brush, Bronchial Wash, Other,
	Sputum Induced, Tracheal Aspirate, Transtracheal Aspirate, Urine
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Aspirate: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Brush: Sterile Container
	Bronchial Wash: Sterile Container (Min. Vol.: 1 mL)
	Other: Eswab/Sterile Container
	Sputum Induced: Sterile Container (Min. Vol.: 1 mL)
	Tracheal Aspirate: Sterile Container (Min. Vol.: 1 mL)
	Transtracheal Aspirate: Sterile Container (Min. Vol.: 1 mL)
	Urine: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.



Test Name	Legionella Urine Antigen
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	Sendaway
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Urine
Specimen Requirement	Sterile Urine Container (Min. Vol.: 0.5 mL)
Additional Collection	Defer to DDO O Missekielery Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.



Test Name	MRSA Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Axilla, Exit Site, Groin, Nares, Open Wound, Perianal, Rectal, Skin
	Swab, Throat, Umb
Specimen Requirement	Red top double swab
Additional Collection	Refer to DBO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Occult Blood Gastric Fluid
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Gastric Fluid
Specimen Requirement	Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Occult Blood Stool
Division	Microbiology and Virology
Synonyms & Care Sets	Guaiac Stool, Hemoccult, Stool Guaiac, Stool Occult Blood
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Stool
Specimen Requirement	Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Defente DDO O Missehieler: Creaimer Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Ova & Parasites
Division	Microbiology and Virology
Synonyms & Care Sets	O & P
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Other, Stool, Urine
Specimen Requirement	Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Defente DDO O Missehielers Greeinen Cellertien
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Pinworm Prep
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Paddle, Scotch Tape
Specimen Requirement	Paddle: Pinworm Paddle
	Scotch Tape: Scotch Tape
Additional Collection	Pafer to PPO O Microbiology Chapting Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Respiratory Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Bronchial Aspirate, Bronchial Brush, Bronchial Wash,
	Nasopharyngeal Swab, Nasopharyngeal Wash, Other, Sinus,
	Sputum
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Aspirate: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Brush: Sterile Container
	Bronchial Wash: Sterile Container (Min. Vol.: 1 mL)
	Nasopharyngeal Swab: ESwab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 1 mL)
	Other: Eswab/Sterile Container
	Sinus: Sterile Container (Min. Vol.: 1 mL)
	Sputum: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Pafer to PPO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Sterility Culture
Division	Microbiology and Virology
Synonyms & Care Sets	C Sterility Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Bone Chip, Cornea, Other
Specimen Requirement	Bone Chip: Sterile Container
	Cornea: Sterile Container
	Other: Eswab/Sterile Container
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Neter to FNO-O-Wild obiology specifien collection
Special Handling	Transport to the lab within 2 hours



Test Name	Stool Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Fecal Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Other, Rectal Swab, Stool
Specimen Requirement	Other: Eswab/Sterile Container
	Rectal Swab: ESwab
	Stool: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Refer to PRO-O-Wild obiology specifient collection
Special Handling	Transport to the lab within 2 hours



Test Name	Streptococcus pyogenes rapid antigen
Division	Microbiology and Virology
Synonyms & Care Sets	Strep Rapid Antigen
Testing Status	In-House
Turn-Around Time	STAT TAT: 1 hour
Additional Information	
Specimen Type	Throat Swab
Specimen Requirement	Red top double swab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Refer to FNO-O-Wilciobiology Specifien Collection
Special Handling	Transport to the lab immediately, all antigen tests are followed
	up by a confirmatory culture



Test Name	Throat Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Group A Strep Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Throat Swab
Specimen Requirement	ESwab
Additional Collection	Defer to DDO O Microhiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Tissue/Biopsy Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Daily reports. Positive smear/cultures reported as soon as
	detected.
Specimen Type	Bone, Brain, Endometrium, Fine Needle Asp, Fistula, Graft,
	Granuloma, Kidney, Liver, Lung, Lymph Node, Nodule, Other,
	Peritoneum, Placenta, Sinus, Skin, Sternal Wound, Surgical Swab,
	Tissue/Biopsy
Specimen Requirement	Bone: Sterile Container
	Brain: Sterile Container
	Endometrium: Sterile Container
	Fine Needle Asp: Sterile Container
	Fistula: Sterile Container
	Graft: Sterile Container
	Granuloma: Sterile Container
	Kidney: Sterile Container
	Liver: Sterile Container
	Lung: Sterile Container
	Lymph Node: Sterile Container
	Nodule: Sterile Container
	Other: Eswab/Sterile Container
	Peritoneum: Sterile Container
	Placenta: Sterile Container
	Sinus: Sterile Container
	Skin: Sterile Container
	Sternal Wound: Eswab/Sterile Container
	Surgical Swab: ESwab
	Tissue/Biopsy: Sterile Container
Additional Collection Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.



Test Name	Trichomonas Prep
Division	Microbiology and Virology
Synonyms & Care Sets	Wet Prep
Testing Status	In-House
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: 1 h
Additional Information	Stat only
Specimen Type	Vaginal Swab
Specimen Requirement	ESwab
Additional Collection	Defer to DDO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.



Test Name	Tuberculosis Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Acid Fast Bacilli Culture, AFB Culture, Mycobacterial Culture
Testing Status	Sendaway
Turn-Around Time	Sendaway: 6-8 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Positive smear/cultures reported as soon as detected.
Specimen Type	BAL, Bronchial Brush, CSF, Other, Pleural Fluid, Sputum, Synovial,
	Tissue/Biopsy, Trach Aspirate
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 1 mL)
	Bronchial Brush: Sterile Container
	CSF: CSF Tube (Min. Vol.: 1 mL)
	Other: Sterile Container
	Pleural Fluid: Sterile Container (Min. Vol.: 1 mL)
	Sputum: Sterile Container (Min. Vol.: 1 mL)
	Synovial: Sterile Container (Min. Vol.: 1 mL)
	Tissue/Biopsy: Sterile Container
	Trach Aspirate: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.



Test Name	Urine Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Clean Catch, Cystoscopy, Indwelling Catheter, In-Out Cath,
	Nephrostomy, Nephrostomy L Kidney, Nephrostomy R Kidney,
	Pedi-Bag Urine, Suprapubic
Specimen Requirement	Sterile Urine Container (Min. Vol.: 1 mL)
Additional Collection	Pafer to PBO O Microbiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	VRE Screen
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 3 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Perianal, Rectal Swab, Stool
Specimen Requirement	Perianal: ESwab
	Rectal Swab: ESwab
	Stool: Sterile Container (Min. Vol.: 1 mL)
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	Refer to PRO-O-IVIICIODIOIOgy Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Worm Identification
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Unknown, Worm
Specimen Requirement	Sterile Container
Additional Collection	Defente DDO O Microhiology Creating Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Test Name	Wound Culture
Division	Microbiology and Virology
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 5 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Abscess Fluid, Abscess Swab, Aspirate Fluid, Bite, Blister, Boil,
	Burn, Cellulitis, C-section Swab, Decubitus, Drainage, Episiotomy,
	Eschar Swab, Exit Site Swab, Exudate, Fistula Swab, Incision,
	Lesion, Other, Pustule, Skin Swab, Suture, Ulcer, Wound Deep
Specimen Requirement	Abscess Fluid: Sterile Container (Min. Vol.: 1 mL)
	Abscess Swab: ESwab
	Aspirate Fluid: Sterile Container (Min. Vol.: 1 mL)
	Bite: ESwab
	Blister: ESwab
	Boil: ESwab
	Burn: ESwab
	Cellulitis: ESwab
	C-section Swab: ESwab
	Decubitus: ESwab
	Drainage: Sterile Container (Min. Vol.: 1 mL)
	Episiotomy: ESwab
	Eschar Swab: ESwab
	Exit Site Swab: ESwab
	Exudate: ESwab
	Fistula Swab: ESwab
	Incision: ESwab
	Lesion: ESwab
	Other: Eswab/Sterile Container
	Pustule: ESwab
	Skin Swab: ESwab
	Suture: ESwab
	Ulcer: ESwab
	Wound Deep/Surgical: ESwab
	Wound Superficial: ESwab
Additional Collection	Refer to PRO-O-Microbiology Specimen Collection
Instructions	
Special Handling	Transport to the lab within 2 hours



Test Name	Yeast Culture
Division	Microbiology and Virology
Synonyms & Care Sets	Candida Culture
Testing Status	In-House
Turn-Around Time	Routine TAT: 2 weeks
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Genital, Mouth Swab, Skin Swab, Throat Swab, Urine, Vaginal
Specimen Requirement	Genital: ESwab
	Mouth Swab: ESwab
	Skin Swab: ESwab
	Throat Swab: ESwab
	Urine: Sterile Container (Min. Vol.: 1 mL)
	Vaginal: ESwab
Additional Collection	Pafer to PBO O Microhiology Specimen Collection
Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours



Serology

Test Name	Antenatal Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	Panel includes the following tests:
	Hepatitis B Surface Antigen
	Hepatitis C Antibody Screen
	HIV Antigen & Antibody Screen
	Syphilis Antibody Screen
	Varicella zoster IgG Antibody
	Rubella IgG Antibody
	CMV IgG Antibody
	Toxoplasma IgG Antibody
Specimen Type	Blood
Specimen Requirement	SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Anti-Bacterial Antibodies
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Panel includes the following tests:
	Pneumococcal Antibodies
	H. influenzae type B Antibodies
	Tetanus Antibodies
	Diphtheria Antibodies
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Blood Borne Exposure - Employee
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	BBE- Employee, Needle Stick Injury - Employee
Testing Status	In-House
Turn-Around Time	Routine TAT: 4 h
	Urgent TAT: 2 h
	STAT TAT: 2 h
Additional Information	Panel includes the following tests:
	Hepatitis B Surface Antibody
	Hepatitis C Antibody Screen
	HIV Antigen & Antibody Screen
Specimen Type	Blood
Specimen Requirement	SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Blood Borne Exposure - Source
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	BBE- Source, Needle Stick Injury - Patient
Testing Status	In-House
Turn-Around Time	Routine TAT: 4 h
	Urgent TAT: 2 h
	STAT TAT: 2 h
Additional Information	Panel includes the following tests:
	Hepatitis B Surface Antigen
	Hepatitis C Antibody Screen
	HIV Antigen & Antibody Screen
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Brucella Antibody Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 2 d
	STAT TAT: 2 d
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	CMV IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	CMV IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	CMV Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	CMV Antibody Screen
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	Panel includes the following tests:
	CMV IgG Antibody
	CMV IgM Antibody
	CMV IgG Avidity (if necessary)
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	COVID-19 Serology
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	COVID-19 Antibody
	SARS-2 Serology
	SARS-2 Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 12 h
	STAT TAT: 6 h
Additional Information	Please contact Microbiology Section to request urgent processing
	outside routine hours.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: 3.5ml SST
	Recommended volume: ≥0.5 mL
Special Handling	Not applicable



est Name	Dengue Fever Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1 d
	Urgent TAT: 2 h
	STAT TAT: 1 h
Additional Information	Panel includes the following tests:
	Dengue fever IgG Antibody
	Dengue fever IgM Antibody
	Dengue fever NS1 Antigen
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	EBV Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	EBNA, Epstein Barr Virus Screen
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	Panel includes the following tests:
	EBV VCA IgG Antibody
	EBV VCA IgM Antibody
	EBV NA (EBNA) IgG Antibody
	EBV EA IgG Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Echinococcus Antibody Profile
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Entamoeba Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Amoeba Antibody, Amoeba Serology
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Fecal Calprotectin
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Stool
Specimen Requirement	Stool: Sterile Container
	Recommended volume: Pea-size sample
Special Handling	



Test Name	Galactomannan Antigen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Aspergillus Serology
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 2 d
	STAT TAT: 24 h
Additional Information	
Specimen Type	BAL, Blood
Specimen Requirement	BAL: Sterile Container
	Blood:
	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Hepatitis A Antibody (Total)
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HAV Antibody, Viral Hepatitis Serology Panel
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Test detects both IgG and IgM Antibody present in the sample.
	A Hepatitis A IgM Antibody test will be performed automatically
	for any Positive result.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis A IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HAV IgM Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis A Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HAV Antibody Screen
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Hepatitis A (Total) Antibody
	Hepatitis A IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Hepatitis Acute Infection Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Acute Hepatitis Serology
Testing Status	In-House
Turn-Around Time	Routine TAT: 2 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Hepatitis A IgM Antibody
	Hepatitis B Surface Antigen
	Hepatitis B Core IgM Antibody
	Hepatitis Be Antigen
	Hepatitis C Antibody Screen
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Hepatitis B Core Antibody Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	Test detects both IgG and IgM Antibody present in the sample.
	A Hepatitis B Core IgM Antibody test will be performed
	automatically for any Positive result.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis B Core IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HBcAb IgM, HBV Core IgM Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis B Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HBV Serology Panel, Hepatitis B Markers
Testing Status	In-House
Turn-Around Time	Routine TAT: 2 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Hepatitis B Surface Antigen
	Hepatitis B Surface Antibody
	Hepatitis B Core (Total) Antibody
	Hepatitis B Core IgM Antibody
	Hepatitis Be Antigen
	Hepatitis Be Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Hepatitis B Surface Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HBsAb, HBV Immunization Status, HBV Post Vaccination, HBV
	Surface Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis B Surface Antigen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HBsAg, HBV Surface Antigen, Viral Hepatitis Serology Panel
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	Any Positive result will have Confirmatory testing performed
	before results are released.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Hepatitis Be Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis Be Antigen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Hepatitis C Antibody Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HCV Antibody Screen, Viral Hepatitis Serology Panel
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	Any Positive result will have Confirmatory testing performed
	before results are released.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Hepatitis D Antibody IgM
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Hepatitis E Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HEV Antibody Screen
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Panel includes the following tests:
	Hepatitis E IgG Antibody
	Hepatitis E IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	HIV Antigen & Antibody Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	HIV Serology
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	Test includes the following:
	HIV-1 Antibody
	HIV-2 Antibody
	p-24 Antigen
	Any Positive result will have Confirmatory testing performed
	before results are released.
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	HSV 1/2 IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	HSV 1/2 IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Herpes Simplex 1/2 IgM
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	HSV 1/2 Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Herpes Simplex 1/2 Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	HSV 1/2 IgG Antibody
	HSV 1/2 IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Hydatid Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Leishmania Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Lyme Disease Antibody Profile
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (Mayo)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Panel includes the following tests:
	Lyme Disease IgG Antibody
	Lyme Disease IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Measles IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Measles IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Measles Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Measles IgG Antibody
	Measles IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	MMR Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	MMR Post Vaccination
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Measles IgG Antibody
	Mumps IgG Antibody
	Rubella IgG Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Mumps IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Mumps IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Mumps Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Mumps IgG Antibody
	Mumps IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Parvovirus B19 IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Parvovirus Antibody IgG
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Parvovirus B19 IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Parvovirus Antibody IgM
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Parvovirus B19 Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Parvovirus IgG Antibody
	Parvovirus IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Procalcitonin
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	PCT
Testing Status	In-House
Turn-Around Time	Routine TAT: 6 h
	Urgent TAT: 4 h
	STAT TAT: 3 h
Additional Information	Critical result: >10
Specimen Type	Blood (serum)
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.6 mL
Special Handling	



Test Name	Q Fever Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (Mayo)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	Panel includes the following tests:
	Q Fever IgG Antibody
	Q Fever IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Quantiferon Gold - TB
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Latent Tuberculosis Testing
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 2 d
	STAT TAT: 2 d
Additional Information	
Specimen Type	Blood
Specimen Requirement	Lithium Heparin x2
	Recommended volume: 4.0 mL
Special Handling	Must collect 2 full tubes



Test Name	Rubella IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Rubella Immunity
Testing Status	In-House
Turn-Around Time	Routine TAT: 2 d
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Rubella IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Rubella Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	Rubella Antibody Screen
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Rubella IgG Antibody
	Rubella IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Schistosoma Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Syphilis Antibody Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	RPR-syphilis screen, Treponema Pallidum Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	ToRCH Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Toxoplasma IgG Antibody
	Toxoplasma IgM Antibody
	Rubella IgG Antibody
	Rubella IgM Antibody
	CMV IgG Antibody
	CMV IgM Antibody
	HSV 1/2 IgG Antibody
	HSV 1/2 IgM Antibody
	Parvovirus B19 IgG Antibody
	Parvovirus B19 IgM Antibo
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 3.5 mL
Special Handling	



Test Name	Toxocara Antibody IgG
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	Sendaway (Mayo)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Toxoplasma IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Toxoplasma IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Toxoplasma Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	<i>Toxoplasma</i> IgG Antibody
	Toxoplasma IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	Varicella Zoster IgG Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	VZV IgG Antibody, VZV Immunization Status, VZV Post
	Vaccination
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Varicella Zoster IgM Antibody
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	VZV IgM Antibody
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 0.5 mL
Special Handling	



Test Name	Varicella Zoster Serology Panel
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 6 h
Additional Information	Panel includes the following tests:
	Varicella zoster IgG Antibody
	Varicella zoster IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	



Test Name	VDRL
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	VDRL Serology
Testing Status	Sendaway (HMC)
Turn-Around Time	No TAT available
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	CSF
Specimen Requirement	CSF: Sterile Container
	Recommended volume: 2.0 mL
Special Handling	



Test Name	Zika Virus Screen
Division	Microbiology and Virology (Serology)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 7 d
	Urgent TAT: 24 h
	STAT TAT: 24 h
Additional Information	Panel includes the following tests:
	Zika virus IgG Antibody
	Zika virus IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST
	>2 Years: SST
	Recommended volume: 1.0 mL
Special Handling	

Division of Pathology Genetics



Pathology Genetics

Test Name	PG Genetic Test
Synonym(s)	Sanger sequencing, targeted sequencing, exon sequencing, gene
	sequencing, gene panels, whole exome sequencing, molecular
	karyotype, microarray
Testing Status	In-house, plus sendaway
Routine TAT	Routine TAT: 8-12 weeks
Urgent TAT	Urgent TAT: 2-4 weeks
STAT TAT	N/A
Specimen Type(s)	Blood; Bone Marrow; Cord Tissue; DNA External; Placental Tissue;
	Skin; Tissue- Other
Container(s)	EDTA; Sterile container
Collection volume	Blood:
	Adult: 2.0 mL (preferred 4.0 mL)
	Pediatric: 1.0 mL (preferred 2.5 mL)
	Neonate (1-30 days): 0.5 mL (preferred 1.5 mL)
	Tissues:
	Specimens to be kept fresh at room temperature in sterile
	container containing saline.
Special Handling	Transport all specimens at room temperature within 24-48 hours.
	If necessary specimens can be refrigerated overnight/over
	weekend for transport at room temperature the following day.
Clinical Information	This orderable includes DNA extraction and storage for molecular
	testing: both sequence-based and whole genome dosage analysis
	(deletions/duplications). Include reasons for referral (clinical
	phenotype), family history of disease (if any), and consanguinity.
	A suspected diagnosis should be included in Order Comments,
	together with previous genetic results if they are available.
	Requests for Whole Exome Sequencing (WES) require a consultation with Clinical Genetics staff.
	This orderable is NOT for conventional karyotype and FISH
	studies; please use PG G-Banding/FISH (Genetic Test).
	studies, please use PO O-dalidilig/FISH (Genetic Test).



PG Family Study (Genetic Test)

Test Name	PG Family Study (Genetic Test)
Synonym(s)	Sanger sequencing, targeted sequencing, exon sequencing, gene
	sequencing, gene panels, whole exome sequencing, molecular
	karyotype
Testing Status	In-house, plus sendaway
Routine TAT	Routine TAT: 8-12 weeks
Urgent TAT	Urgent TAT: 2-4 weeks
STAT TAT	N/A
Specimen Type(s)	Blood; DNA External
Container(s)	EDTA; Sterile container
Collection volume	Blood:
	Adult: 2.0 mL (preferred 4.0 mL)
	Pediatric: 1.0 mL (preferred 2.5 mL)
	Neonate (1-30 days): 0.5 mL (preferred 1.5 mL)
Special Handling	Transport all specimens at room temperature within 24-48 hours.
	If necessary specimens can be refrigerated overnight/over
	weekend for transport at room temperature the following day.
Clinical Information	This orderable is for collecting family members' DNAs to inform
	whole exome sequencing (WES) of a proband, as well as reflex
	testing of family members for known sequence-based or whole
	genome dosage (deletion/duplication) events.
	Critical information is required regarding the proband's MRN,
	relationship to proband, consanguinity, family history of genetic
	variant (if known), required for WES study (or unknown at the
	time of collection), and clinical status of family member.



PG G-Banding/FISH (Genetic Test)

Test Name	PG G-Banding/FISH (Genetic Test)
Synonym(s)	Cytogenetics, Fluorescence in situ hybridization (FISH); Karyotype
Testing Status	Sendaway to HMC
Routine TAT	Routine TAT: 4 weeks
Urgent TAT	Urgent TAT: 2 weeks (48 hours if requesting aneuploidy (trisomy) exclusion)
STAT TAT	N/A
Specimen Type(s)	Blood; Bone Marrow
Container(s)	Sodium heparin
Collection volume	Adult: 5.0 mL
	Pediatric: 3.0 mL
	Neonate (1-30 days): 2 mL
Special Handling	Transport all bloods at room temperature within 24-48 hours.
Clinical Information	This orderable is for G-banding of metaphase chromosomes in the case of a clinical suspicion of chromosome re-arrangements, targeted FISH analysis of defined genomic regions, sex chromosome aneuploidy and trisomy exclusion. Critical information is required regarding HC number, the reason(s) for referral (recurrent miscarriages), family history of chromosomal abnormality, and consanguinity. It is advisable to add a companion order (PG Genetic Test) for DNA banking and possible reflex testing.



PG Amnio (Genetic Test)

Test Name	PG Amnio (Genetic Test)
Synonym(s)	Cytogenetics, rapid FISH, aneuploidy screening, Sanger
	sequencing, exon sequencing, gene sequencing, molecular
	karyotype, microarray
Testing Status	Sendaway to HMC
Routine TAT	N/A as all requests should be urgent
Urgent TAT	Urgent TAT: 2-3 weeks
STAT TAT	N/A
Specimen Type(s)	Amniotic fluid
Container(s)	Draw into two sterile containers (or syringes)
Collection volume	Total collection volume: 20mL
Special Handling	Transport all amniotic fluid at room temperature within 24-48
	hours.
Clinical Information	This orderable is for chromosome analysis of low as well as high-
	risk pregnancies. Analyses include rapid FISH (aneuploidy
	screening of chromosomes 13, 18, 21, X and Y, which can be
	undertaken within 2 days), molecular karyotype, as well as G-
	banding of metaphase chromosomes of cultured cells.
	Critical information is required regarding HC number, the
	reason(s) for referral (abnormal scan findings, confirmation of
	NIPT), family history of genetic abnormality (if any), and
	consanguinity.
	This orderable includes an automatic companion orderable (PG
	Genetic Test) for a maternal blood collection in order to
	determine if there is maternal cell contamination of the
	amniotic fluid.



PG CVS (Genetic Test)

Test Name	PG CVS (Genetic Test)
Synonym(s)	Cytogenetics, rapid FISH, aneuploidy screening, Sanger
	sequencing, exon sequencing, gene sequencing, molecular
	karyotype
Testing Status	Sendaway to HMC
Routine TAT	N/A as all requests should be urgent
Urgent TAT	Urgent TAT: 2-3 weeks
STAT TAT	N/A
Specimen Type(s)	Chorionic Villus sample
Container(s)	Sterile container
Collection volume	30mg in Collection Medium
Special Handling	Transport all CVS at room temperature within 24-48 hours. If necessary specimens can be refrigerated overnight/over weekend for transport at room temperature the following day.
Clinical Information	This orderable is for chromosome analysis of low as well as high- risk pregnancies. Analyses include rapid FISH (aneuploidy screening of chromosomes 13, 18, 21, X and Y, which can be undertaken within 2 days), molecular karyotype, as well as G- banding of metaphase chromosomes of cultured cells. Critical information is required regarding HC number, the reason(s) for referral (abnormal scan findings, confirmation of NIPT), family history of genetic abnormality (if any), and consanguinity. This orderable includes an automatic companion orderable (PG Genetic Test) for a maternal blood collection in order to determine if there is maternal cell contamination of the CVS.



PG NIPT (Genetic Test)

Test Name	PG NIPT (Genetic Test)
Synonym(s)	Non Invasive Prenatal Testing
Testing Status	Sendaway to Manchester
Routine TAT	N/A as all requests should be urgent
Urgent TAT	Urgent TAT: 2 weeks
STAT TAT	N/A
Specimen Type(s)	Blood
Container(s)	Cell-Free DNA BCT CE tubes (contact Pathology Genetics 32994)
Collection volume	2 X 10mL (Tubes MUST be full; Invert gently 10X)
Special Handling	Transport samples at room temperature as soon as they are
	drawn
Clinical Information	This orderable determines the risk that a fetus will be born with
	certain genetic abnormalities. This testing analyzes small
	fragments of DNA that are circulating in a pregnant woman's
	blood. NIPT primarily looks for Down syndrome (trisomy 21,
	caused by an extra chromosome 21), trisomy 18 (caused by an
	extra chromosome 18), trisomy 13 (caused by an extra
	chromosome 13), and extra or missing copies of the X
	chromosome and Y chromosome (the sex chromosomes). The
	accuracy of the test varies by disorder.
	Critical information is required regarding the reason(s) for
	referral: family history of genetic disease, prior pregnancy with
	chrom/genetic disease, sex determination, BMI, gestational age,
	pregnancy status and chorionicity, if twins.



Division of Pathology Sciences



Molecular Infectious Diseases

Test Name	Adenovirus PCR - Qualitative
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	ADV Qualitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Bone Marrow, Bronchial Wash, CSF, Nasopharyngeal
	Flocked Swab, Nasopharyngeal Wash, Pericardial Fluid, Pleural
	Fluid, Stool, Throat Gargle, Tissue, Tracheal Aspirate, Tracheal
	Wash, Urine
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Bone Marrow: EDTA (Min. Vol.: 2 mL)
	Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)
	CSF: Sterile Container (Min. Vol.: 2 mL)
	Nasopharyngeal Flocked Swab: Viral Swab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Pericardial Fluid: Sterile Container (Min. Vol.: 2 mL)
	Pleural Fluid: Sterile Container (Min. Vol.: 2 mL)
	Stool: Sterile Container (Min. Vol.: 2 mL)
	Throat Gargle: Sterile Container (Min. Vol.: 2 mL)
	Tissue: Sterile Container
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
	Urine: Sterile Container (Min. Vol.: 10 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	Keen and Canal Defricemented
Special Handling	Keep and Send Refrigerated



Test Name	Adenovirus PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to _Appendix A
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Gastroenteritis PCR Panel
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	Gastroenteritis PCR Panel includes: <i>Campylobacter coli/jejuni/lari, Clostridium difficile,</i> Plesiomonas shigelloides, <i>Salmonella</i> spp., <i>Shigella</i> spp./Enteroinvasive <i>E. coli, Yersinia enterocolitica, Vibrio</i> <i>(parahaemolyticus, vulnificus, and cholerae), Vibrio cholera,</i> <i>Enteroaggregative E. coli, Enteropathogenic E. coli,</i> <i>Enterotoxigenic E. coli, Shiga-like toxin-producing E. coli</i> <i>(stx1/stx2)</i> /E. coli 0157), Cryptosporidium, Cyclospora cayetanensis, <i>Entamoeba histolytica, Giardia lamblia,</i> <i>Adenovirus F40/41, Astrovirus, Norovirus GI/GII, Rotavirus</i> <i>A, Sapovirus (I, II, IV, and V)</i>
Specimen Type	Other, Rectal Swab, Stool
Specimen Requirement	Other: Sterile Container
	Rectal Swab: ESwab
	Stool: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to _Appendix A
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	BK Virus PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	BK Polyomavirus PCR - Viral Load, BKV Quant PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood, Urine
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Urine: Sterile Container (Min. Vol.: 5 mL)
Additional Collection	Refer to Appendix A
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Bordetella pertussis PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Bronchial Wash, Nasopharyngeal Flocked Swab, Nasopharyngeal
	Aspirate, Nasopharyngeal Swab, Nasopharyngeal Wash, Other,
	Throat Gargle, Throat Swab, Tracheal Aspirate, Tracheal Wash
Specimen Requirement	Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)
	Nasopharyngeal Flocked Swab: Viral Swab
	Nasopharyngeal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Nasopharyngeal Swab: Viral Swab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Other: Sterile Container
	Throat Gargle: Sterile Container (Min. Vol.: 2 mL)
	Throat Swab: ESwab
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Brucella PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood, Urine
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Urine: Sterile Container (Min. Vol.: 5 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Chlamydia - Gonorrhoea PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	CT - NG PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Endocervical Swab, Other, Rectal Swab
Specimen Requirement	Endocervical Swab: CT/NG Swab
	Other: CT/NG Swab
	Rectal Swab: CT/NG Swab
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Clostridium difficile PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	C. difficile PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Stool
Specimen Requirement	Stool: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	CMV PCR - Qualitative
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Cytomegalovirus PCR - Qualitative
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	
Specimen Type	Amniotic Fluid, BAL, Blood, Blood Spot, Bone Marrow, CSF, Other, Pericardial Fluid, Pleural Fluid, Tissue, Tracheal Aspirate, Tracheal Wash, Urine, Vitreous Fluid
Specimen Requirement	Amniotic Fluid: Sterile Container (Min. Vol.: 2 mL) BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood: <2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL) Blood Spot: Filter Paper
	Bone Marrow: EDTA (Recommended Vol.: 3.0 mL) CSF: Sterile Container (Min. Vol.: 1 mL)
	Other: Sterile Container
	Pericardial Fluid: Sterile Container (Min. Vol.: 2 mL)
	Pleural Fluid: Sterile Container (Min. Vol.: 2 mL)
	Tissue: Sterile Container
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
	Urine: Sterile Container (Min. Vol.: 2 mL)
	Vitreous Fluid: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	CMV PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Cytomegalovirus Quantitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	EBV PCR - Qualitative
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to Appendix A
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	EBV PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Epstein-Barr Virus Quantitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Enterovirus PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Coxsackie Virus PCR, Echovirus PCR, Poliovirus PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Bronchial Wash, CSF, Nasopharyngeal Flocked Swab, Nasopharyngeal Wash, Other, Stool, Throat Gargle, Tissue, Tracheal Aspirate, Tracheal Wash
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL) Blood: <2 Years: Map EDTA (Recommended Vol.: 1.0 mL) >2 Years: EDTA (Recommended Vol.: 3.0 mL) Bronchial Wash: Sterile Container (Min. Vol.: 2 mL) CSF: Sterile Container (Min. Vol.: 1 mL) Nasopharyngeal Flocked Swab: Viral Swab Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL) Other: Sterile Container Stool: Sterile Container (Min. Vol.: 2 mL) Throat Gargle: Sterile Container (Min. Vol.: 2 mL) Tissue: Sterile Container Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL) Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Group B Strep PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	GBS PCR, S. agalactiae PCR, Streptococcus agalactiae PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Blood, Cervical Swab, CSF, Other, Rectal Swab, Recto-Vaginal
	Swab, Urethral swab, Vaginal Swab
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Cervical Swab: ESwab
	CSF: Sterile Container (Min. Vol.: 1 mL)
	Other: Sterile Container
	Rectal Swab: ESwab
	Recto-Vaginal Swab: ESwab
	Urethral swab: ESwab
	Vaginal Swab: ESwab
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	HBV PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Hepatitis B Virus Quantitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	HCV PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Hepatitis C Virus Quantitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 4 h
Additional Information	This viral load test must be collected in its own tube.
Specimen Type	Blood
Specimen Requirement	Blood: EDTA (Min. Vol.: 3 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	HIV-1 PCR - Qualitative
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Human Immunodeficiency Virus-1 PCR
Testing Status	Sendaway
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: N/A
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	HIV-1 PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	HIV-1 Quantitative PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	This viral load test must be collected in its own tube.
Specimen Type	Blood
Specimen Requirement	Blood: EDTA (Min. Vol.: 3 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	HSV-1/2 PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Herpes Simplex Virus 1/2 PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Bronchial Wash, CSF, Eye Swab, Genital, Mouth Swab,
	Nasopharyngeal Swab, Rectal Swab, Skin Swab, Throat Swab,
	Tissue, Tracheal Aspirate, Tracheal Wash, Urine, Vitreous Fluid
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)
	CSF: Sterile Container (Min. Vol.: 2 mL)
	Eye Swab: ESwab
	Genital: ESwab
	Mouth Swab: ESwab
	Nasopharyngeal Swab: ESwab
	Rectal Swab: ESwab
	Skin Swab: ESwab
	Throat Swab: ESwab
	Tissue: Sterile Container
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
	Urine: Sterile Container (Min. Vol.: 5 mL)
	Vitreous Fluid: Sterile Container (Min. Vol.: 0.5 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Human Herpesvirus 6 PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	HHV-6 PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Bone Marrow, Bronchial Wash, CSF, Tissue, Tracheal
	Aspirate, Tracheal Wash
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Bone Marrow: EDTA (Min. Vol.: 1 mL)
	Bronchial Wash: Sterile Container (Min. Vol.: 1 mL)
	CSF: Sterile Container (Min. Vol.: 2 mL)
	Tissue: Sterile Container
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Human Papillomavirus PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	HPV PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Cervical
Specimen Requirement	Cervical: Sterile Container
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Influenza - RSV PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Flu - RSV PCR, Respiratory Syncytial Virus - Flu PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	BAL, Bronchial Wash, Nasal Swab, Nasopharyngeal Flocked Swab,
	Nasopharyngeal Wash, Other, Sputum, Throat Gargle, Tracheal
	Aspirate, Tracheal Wash
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)
	Nasal Swab: Viral Swab
	Nasopharyngeal Flocked Swab: Viral Swab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Other: Sterile Container
	Sputum: Sterile Container (Min. Vol.: 2 mL)
	Throat Gargle: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Malaria PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Plasmodium PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Min. Vol.: 2 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Measles Virus PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Nasopharyngeal Flocked Swab, Nasopharyngeal Wash, Other,
	Throat Swab, Urine
Specimen Requirement	Nasopharyngeal Flocked Swab: Viral Swab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Other: Sterile Container
	Throat Swab: Viral Swab
	Urine: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	MERS-CoV PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Coronavirus PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Nasal Aspirate, Nasopharyngeal Flocked Swab,
	Nasopharyngeal Wash, Oropharyngeal Swab, Other, Pleural Fluid,
	Sputum, Stool, Throat Gargle, Tissue, Tracheal Aspirate, Tracheal
	Wash, Urine
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
	Nasal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Nasopharyngeal Flocked Swab: Viral Swab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Oropharyngeal Swab: Viral Swab
	Other: Sterile Container
	Pleural Fluid: Sterile Container (Min. Vol.: 2 mL)
	Sputum: Sterile Container (Min. Vol.: 2 mL)
	Stool: Sterile Container (Min. Vol.: 2 mL)
	Throat Gargle: Sterile Container (Min. Vol.: 2 mL)
	Tissue: Sterile Container
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Urine: Sterile Container (Min. Vol.: 2 mL)
Instructions	Refer to <u>Appendix A</u>
	Keen and Send Pefrigerated
Special Handling	Keep and Send Refrigerated



Test Name	MRSA PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 2 h
Additional Information	
Specimen Type	Axilla, Groin, Hairline, Nasal Swab, Perianal Swab, Perineal Swab,
	Rectal Swab
Specimen Requirement	Axilla: ESwab
	Groin: ESwab
	Hairline: ESwab
	Nasal Swab: ESwab
	Perianal Swab: ESwab
	Perineal Swab: ESwab
	Rectal Swab: ESwab
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Mumps Virus PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Buccal Swab, CSF, Nasopharyngeal Flocked Swab, Nasopharyngeal
	Wash, Throat Swab, Urine
Specimen Requirement	Buccal Swab: Viral Swab
	CSF: Sterile Container (Min. Vol.: 1 mL)
	Nasopharyngeal Flocked Swab: ESwab
	Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL)
	Throat Swab: Viral Swab
	Urine: Sterile Container (Min. Vol.: 5 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Parvovirus B19 PCR - Viral Load
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-7 d
	Urgent TAT: 1-4 d
	STAT TAT: N/A
Additional Information	If this test is ordered together with other viral load PCR tests
	(except HCV and HIV), please collect into a single tube and affix
	the labels for each test onto the same tube before sending it to
	the laboratory.
Specimen Type	Blood
Specimen Requirement	Blood:
	<2 Years: Map EDTA (Recommended Vol.: 1.0 mL)
	>2 Years: EDTA (Recommended Vol.: 3.0 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Respiratory Pathogen PCR Panel
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	Respiratory Pathogen PCR Panel includes: Influenza A Virus, Influenza A Virus H1N1, Influenza B Virus, Rhinovirus, Coronavirus NL63, Coronavirus 229E, Coronavirus OC43, Coronavirus HKU1, Parainfluenza virus- 1, Parainfluenza virus-2, Parainfluenza virus-3, Parainfluenza virus-4, RSV A/B, Adenovirus, Enterovirus, Parechovirus, <i>Mycoplasma pneumoniae, Chlamydophila</i> <i>pneumoniae</i> , Human metapneumovirus A/B
Specimen Type	BAL, Nasal Aspirate, Nasopharyngeal Flocked Swab, Nasopharyngeal Wash, Pleural Fluid, Sputum, Throat Gargle, Tracheal Aspirate, Tracheal Wash
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL) Nasal Aspirate: Sterile Container (Min. Vol.: 2 mL) Nasopharyngeal Flocked Swab: Viral Swab Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL) Pleural Fluid: Sterile Container (Min. Vol.: 2 mL) Sputum: Sterile Container (Min. Vol.: 2 mL) Throat Gargle: Sterile Container (Min. Vol.: 2 mL) Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL) Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	TB PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Mycobacterium tuberculosis PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h
	Urgent TAT: 4 h
	STAT TAT: 4 h
Additional Information	TB PCR includes: Mycobacterium tuberculosis, Rifampin
	Resistance
Specimen Type	BAL, Bronchial Wash, CSF, Culture, Other, Pleural Fluid, Sputum,
	Tracheal Aspirate, Tracheal Wash
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL)
	Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)
	CSF: Sterile Container (Min. Vol.: 1 mL)
	Culture: Sterile Container
	Other: Sterile Container
	Pleural Fluid: Sterile Container (Min. Vol.: 2 mL)
	Sputum: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)
	Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Trichomonas vaginalis PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 4 h
	STAT TAT: N/A
Additional Information	
Specimen Type	Endocervical Swab, Rectal Swab, Urethral swab, Urine, Vaginal
	Swab
Specimen Requirement	Endocervical Swab: CT/NG Swab
	Rectal Swab: CT/NG Swab
	Urethral swab: CT/NG Swab
	Urine: Sterile Urine Container (Min. Vol.: 2 mL)
	Vaginal Swab: CT/NG Swab
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	CSF PCR Panel
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d Urgent TAT: 24 h STAT TAT: N/A
Additional Information	CSF PCR Panel includes: Escherichia coli K1, Haemophilus influenzae, Listeria monocytogenes, Neisseria meningitides, Streptococcus agalactiae, Streptococcus pneumonia CMV, EV, HSV1, HSV2, HHV6, Parechovirus, VZV, Cryptococcus neoformans/gattii
Specimen Type	CSF
Specimen Requirement	CSF: Sterile Container (Min. Vol.: 1 mL)
Additional Collection Instructions	Refer to <u>Appendix A</u>
Special Handling	Keep and Send Refrigerated



Test Name	VZV - HSV PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Varicella - Herpes Simplex Virus PCR, Vesicular Rash PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	VZV - HSV PCR includes: VZV, HSV1, HSV2
Specimen Type	Other, Skin, Skin Swab, Vesicular Fluid, Vesicular Swab
Specimen Requirement	Other: Sterile Container
	Skin: Sterile Container
	Skin Swab: Viral Swab
	Vesicular Fluid: Sterile Container (Min. Vol.: 2 mL)
	Vesicular Swab: Viral Swab
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	VZV PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	Varicella-Zoster Virus PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 1-4 d
	Urgent TAT: 24 h
	STAT TAT: N/A
Additional Information	
Specimen Type	BAL, Blood, Bronchial Wash, CSF, Eye Swab, Other, Skin Scraping, Skin Swab, Tissue, Tracheal Aspirate, Tracheal Wash, Vitreous Fluid
Specimen Requirement	BAL: Sterile Container (Min. Vol.: 2 mL) Blood: <2 Years: Map EDTA (Recommended Vol.: 1.0 mL) >2 Years: EDTA (Recommended Vol.: 3.0 mL) Bronchial Wash: Sterile Container (Min. Vol.: 2 mL) CSF: Sterile Container (Min. Vol.: 1 mL) Eye Swab: ESwab Other: Sterile Container Skin Scraping: Sterile Container (Min. Vol.: 1 mL) Skin Swab: Viral Swab Tissue: Sterile Container Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL) Tracheal Wash: Sterile Container (Min. Vol.: 2 mL) Vitreous Fluid: Sterile Container (Min. Vol.: 0.5 mL)
Additional Collection	Refer to <u>Appendix A</u>
Instructions	
Special Handling	Keep and Send Refrigerated



Test Name	Covid-19 PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	SARS-CoV-2 PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 12 - 18 h Urgent TAT: 6 - 8 h (for samples received in the lab by 7pm) STAT TAT: 90 - 180 min (for samples received in the lab by 11pm) Clinical units MUST call the Microbiology Laboratory (33011) prior to sending STAT specimens Clinical units MUST notify the laboratory if the sample is likely to
	be positive due to clinical symptoms or exposure to COVID-19 Failure to notify the laboratory will result in longer TAT
Additional Information	
Specimen Type	Prefered specimen:Nasopharyngeal Flocked Swab Other acceptible specimens: Nasopharyngeal Wash, Sputum, Throat Gargle, Tracheal Aspirate, Tracheal Wash, Nasal Aspirate, Saliva, Stool
Specimen Requirement	Nasal Aspirate: Sterile Container (Min. Vol.: 2 mL) Nasopharyngeal Flocked Swab: Viral Swab Nasopharyngeal Wash: Sterile Container (Min. Vol.: 2 mL) Sputum: Sterile Container (Min. Vol.: 2 mL) Throat Gargle: Sterile Container (Min. Vol.: 2 mL) Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL) Tracheal Wash: Sterile Container (Min. Vol.: 2 mL) Salvia: Sterile Container (Min. Vol.: 2 mL) Stool: Sterile Container (Min. Vol.: 2 mL)
Additional Collection Instructions	Refer to <u>Appendix A</u>
Special Handling	Double bag – Do NOT use Pneumatic Tube System Keep and Send Refrigerated



APPENDIX A – MICROBIOLOGY COLLECTION QUICK REFERENCE GUIDE

Microbiology Collection Quick Reference Guide [with Lawson Catalog Numbers]							
Blood Culture Bottles							
Adult Aerobic and Anaerobic [10010510 and 10010511]	Pediatric [10010512]	Fungal or Acid Fast Bacilli (TB) [10010513]					
Required Volume: 8-10 ml	Required Volume: 1-3 ml	Required Volume: 1-5 ml					
Used for:	Used for:	Used for:					
Blood Culture	Blood Culture	AFB Blood Culture					
Body Fluid Culture Body Fluid Culture Fungal Culture Blood							
Bone Marrow Culture	Bone Marrow Culture						
Brucella Blood Culture	Brucella Blood Culture	<u> </u>					



Swabs							
ESwab Regular (Adult - w or MiniTip (Pediatric - gre		Red Top Double Swab [10005732]					
Adult							
Used for: CPO/ESBL Screen VRE Screen VZV - HSV PCR Wound Culture Throat Culture <i>Neisseria gonorrheae</i> Culture	Ear swab Eye swab Genital swab Nasal swab Rectal swab Skin swab Throat swab Environmental swab	Used for: MRSA Screen MRSA PCR GBS Screen GBS PCR					



Microbiology Collection Qu	uick Refere	ence Guide [with Lawsor	Catalog Numbers]				
Swabs		STD Collection Kits					
Viral Collection Kit [10045330]	STD Collection Ki (Urine) [10012782	it STD Collection Kit					
Viral Transport Tube The Mark Stranger Tube Nasophary Throat,							
Used for: Flu - RSV PCR Respiratory Pathogen PCR Panel Bordetella pertussis PCR Nasopharyngeal swab for all viral PCRs (e.g., Measles Virus PCR, MERS-CoV PC Buccal swab for Mumps Virus PCR	CR, etc.)		Gonorrhoea PCR s <i>vaginalis</i> PCR				
	Conta	iners					
Urine Cup (blue lid) [10008784]		e Container (red lid) Sputum Collection Ki [10004162] [10010514]					
Marie		MO- WARD TEST: DR: DATE					
Used for: Urine culture <i>Legionella</i> Urine Antigen <i>Streptococcus pneumoniae</i> Urine Antigen Other urine tests (including PCR)	Trachea Body Fl Tissue/ Stool C Ova & F <i>C. diffic</i>	oalveolar lavage al aspirate luid Culture Biopsy Culture	Used for: Sputum				



APPENDIX B – NON-MICRO COLLECTION QUICK REFERENCE GUIDE

Non-Micro Collection Quick Reference Guide																
Blood																
Tube name	Citrated/Light Blue Top	Plain/F	Red Top	SST/Ye	llow Top		rinized/ n Top		ST/ een Top		EDTA/ Lavender Top		EDTA/Pink Top	Trace Element Serum	Trace Element Plasma	NaF/Grey Top [10008782]
Lawson Number	10010499	10008780	10007229	10008781	10007226	10010503	10007227	10010502	10010501	10010498	10008787	10007225	10008779	10010504	10010505	10008782
Tube	Line and the series of ser	And and a second	MICCOTAINER Burd Tar	And a strain of the strain of	Lot resyster	Contraction of the second seco	ANGROUMINER Ber England The source of the	Bages and a second seco	A HADDOTAINER	With the second	In the second seco			The second s	The second	BD Vinne BD Vinne DD Vinne BD Vinne DD Vinne DD Vinne DD Vinne DD Vinne DD Vinne DD
Required volume	1.8mL	1-4mL	250 - 500µL		400 - 600µL	4mL	200 - 400μL	1.5-3.5mL	400 - 600μL	2-4mL	1-2mL	375–500µL	2-6mL	2-6mL	2-6mL	2mL
Inversions	4		5		5		8		8		8		8	8	8	8
Used for	Coagulation studies, PT, APTT, vWD Panel, D- Dimer	Immunological alternative to E tests		For serum de Biochemistry Serology, Ot monitoring	, Immunology,					Hematological Tests, HBA1C, Molecular Microbiology, other PCR		Blood bank, Crossmatching	Toxicology, Zinc, Copper	Toxicology, Lead	Glucose, Lactic Acid	
Note	A discard tube must be used when collecting with vacutainer system. Must be filled with exact volume of the tube.			Can also be glucose test.												
								Non-blo	od							
Container name	Universal Con	tainer (red lid)		Sterile Contair wrapped, s	ner (red lid, ind sterile inside &	ividually out)	Lumbar	puncture tray	/ tubes							
Lawson Number	10004162				1018996											
Container	LEADER CONTINUE (C	Tes Date														
Required volume	Va	ried			Varied			0.5-1mL								
Used for	CSF, Fresh tissue, Body f	fluids	CS	SF, Fresh tissue,	Body fluids		CSF, Body flui	ds								
Note			be	or use when a lun ing used and cor e outside			Numbered 1-4									



APPENDIX C - QUICK REFERENCE GUIDE: GENERAL PATHOLOGY SPECIMEN LABELLING REQUIREMENTS

Specimen type	Acceptable	Not Acceptable				
All serum / Plasma 3.5 ml Tube	 Cerner barcode – Place the label directly over the tube label Ensure there is a gap to visibly see the blood 	 Winkled barcode Barcode wrapped around the tube 				
Serum / Plasma Pediatric Tube	Cerner Label placed vertical on the tube	Label wrapped around tube				
Urinalysis, Urine C&S, stool, sputum container 100 ml cup	 Patient Hospital label with time and date of collection Also label with Cerner Barcode 					
Urinalysis 10 ml Aliquot	 Cerner Barcode Place the label directly over the tube label 	Do not wrap label around the tube or place to high or low				



Specimen type	Acceptable	Not Acceptable
24 Hour Urine	 Label with 24hr Urine Label and ensure start date and time as well as finished date and time is complete. If no label available, write on bottle and label with hospital label Once sample is received, label with Cerner barcode PATIENT AND TEST INFORMATION FOR 24-HOUR URINE COLLECTION Patient New: Rel + Test Rel With 	 Required information not completed Missing start date and time or a finish date and time
Handwritten labels	 Label with Cerner barcode when available Do not cover the handwritten name with the barcode 	 Cerner label over the original hand- written label
Blood Culture Bottles	The label must be vertical so it is easier to scan into the instrument and the label must not cover the barcode	Not acceptable – when the label covers the bottle barcode
All Swabs	 Cerner Label with initials Must write collection site on the label as well as the time and date of collection 	 No time or date of collection or site of collection