



Pathology Laboratory
Specimen Collection Guide
Version 12.0

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Collection Information

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

Document Name	Location
PRO-O-Blood Collection	Sidra Portal
PRO-O-Microbiology Specimen Collection	Sidra Portal

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 FNA Cytology
Collection Instructions	Transport samples to Lab the same day and within 2 hours of sampling if urgent. Request should identify if air dried smears or fixed smears are submitted. Smears alone are discouraged. Satisfactory sampling should include FNA material placed in an NG ThinPrep vial.
Specimen Type	<u>Smears</u> Labelled, air-dried and / or wet-fixed smears accepted. <u>FNA in NG ThinPrep vial</u> is acceptable for clinically satisfactory samples. Excessive blood can interfere with the processing of the sample.
Specimen Handling	<u>Clinical handling</u> Direct Smears onto glass slides and / or samples washed into NG ThinPrep vial are accepted. Ensure vial lid is closed securely to avoid specimen leakage. Incomplete labelling can lead to delays in processing and results.
Turnaround Time	<u>Routine</u> – 4 calendar days <u>Urgent</u> - Provisional report in 4 hours.

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Gyn Cytology
Collection Instructions	Transport samples to Lab the same day or within 24 hours. Urgent samples should be expedited. ThinPrep samples require that the sample brush is not sent with the sample but rinsed very thoroughly in the vial and removed. Ensure sample pot lids are securely closed. Use of lubricant is not recommended but if required should be minimized and not transferred to the vial.
Specimen Type	20 ml ThinPrep PreservCyt vial for Cervical Cytology.
Specimen Handling	<u>Clinical handling</u> Incomplete labelling can lead to delays in processing and results. <u>Laboratory handling</u> ThinPrep slides are prepared and material retained for HPV DNA testing as required. ThinPrep Imaging System and manual microscopic review is the standard protocol for Cervical Cytology.
Turnaround Time	<u>Routine</u> – 7 calendar days <u>Urgent</u> 2 business days (excludes HPV DNA testing)

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Non-Gyn Cytology
Collection Instructions	Transport samples to Lab the same day and within 2 hours of sampling (BAL and other urgent samples should be expedited). Ensure sample pot lids are securely closed
Specimen Type	<u>Scanty sample</u> Direct smear(s) onto glass slides <u>Small volume sample</u> Add to 20 ml ThinPrep NG Vial <u>Large sample</u> Provide sample of native fluid eg. pleural / ascitic fluid, up to 20 ml volume in a Sterile container.
Specimen Handling	<u>Clinical handling</u> Use Biohazard stickers as required. Incomplete labelling can lead to delays in processing and results. <u>Lab handling</u> Cytospin, Direct smears, Indirect smears, ThinPrep slides and Cellient cell blocks as required.
Turnaround Time	<u>Routine</u> – 4 calendar days <u>Complex</u> – 7 calendar days <u>Urgent</u> - Provisional report in 4 hours.

Histopathology and Morgue

Test Name	Pathology Morgue Deceased Patient Request
Order Schedule	<p>AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday (H2M-24000)</p> <p>Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-33013)</p> <p>AP On-call (24/7): +974 3136 1305</p>
Order Information	<p>After death of liveborn, child or adult</p> <p>Ensure death notification or forensic case, legal documents, consideration of autopsy examination, and identification have been completed as on the ward checklist.</p> <p>Information required at the time of order:</p> <p>Collection date and time</p> <p>Clinical information</p> <p>CallBack Number</p> <p>Deceased Date/Time</p> <p>Infection Category</p> <p>Radioactive/Cytotoxic</p> <p>Medical/Police(Forensic)</p> <p>Location of Death</p> <p>Autopsy Consent</p> <p>Autopsy Type</p> <p>Reason for Autopsy</p> <p>Social Work contact</p> <p>Ordering Physician</p> <p>Order Date/Time</p> <p>Order Communication Type</p>

Pathology Laboratory Specimen Collection Guide

	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	<p>Order label (Julian label) printed x2 and attached to appropriate body tag.</p> <p>Infection status needs to be communicated to Morgue prior to transportation.</p> <p>Send to Morgue.</p>
Turnaround Time	<p>If autopsy:</p> <p>Preliminary report 2 working days after examination.</p> <p>Final report under 60 working days after examination.</p>

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Morgue Fetal Loss <20 Weeks Request
Order Schedule	<p>AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday (H2M-24000)</p> <p>Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-33013)</p> <p>AP On-call (24/7): +974 3136 1305</p>
Order Information	<p>Fetal loss <20 weeks</p> <p>Ensure consideration of autopsy examination and identification have been completed as on the ward checklist.</p> <p>Information required at the time of order:</p> <p>Collection date and time</p> <p>Clinical information (gestational age)</p> <p>CallBack Number</p> <p>Infection Category</p> <p>Medical/Police(Forensic)</p> <p>Autopsy Consent</p> <p>Autopsy Type</p> <p>Social Work contact</p> <p>Gestational age</p> <p>Order of Delivery</p> <p>Ordering Physician</p> <p>Order Date/Time</p> <p>Order Communication Type</p> <p>Orders placed (Duplicate, incorrect, or otherwise), where the body is not received in the Morgue within one (1) month of ordering will be cancelled.</p>

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Morgue Still Birth Request
Order Schedule	<p>AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday (H2M-24000)</p> <p>Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-33013)</p> <p>AP On-call (24/7): +974 3136 1305</p>
Order Information	<p>Fetal loss \geq 20 weeks</p> <p>Ensure fetal death notification, consideration of autopsy examination, and identification have been completed as on the ward checklist.</p> <p>Information required at the time of order:</p> <p>Collection date and time</p> <p>Clinical information (gestational age)</p> <p>CallBack Number</p> <p>Infection Category</p> <p>Medical/Police(Forensic)</p> <p>Autopsy Consent</p> <p>Autopsy Type</p> <p>Social Work contact</p> <p>Gestational age</p> <p>Order of delivery</p> <p>Ordering Physician</p> <p>Order Date/Time</p> <p>Order Communication Type</p> <p>Orders placed (Duplicate, incorrect, or otherwise), where the body is not received in the Morgue within one (1) month of ordering will be cancelled.</p>

Pathology Laboratory Specimen Collection Guide

Collection Instructions	<p>Order label (Julian label) printed x2 and attached to appropriate body tag.</p> <p>Infection status needs to be communicated to Morgue prior to transportation.</p> <p>Send to Morgue.</p>
Turnaround Time	<p>If autopsy:</p> <p>Preliminary report 2 working days after examination.</p> <p>Final report under 60 working days after examination.</p>

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Tissue Request
Order Schedule	<p>Tumors, frozen sections, IR liver biopsies, IR renal biopsies, and HD pull-throughs must be scheduled with the AP laboratory at least 24 hours in advance.</p> <p>AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday (H2M-24000)</p> <p>Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-33013)</p> <p>AP On-call (24/7): +974 3136 1305</p>
Order Information	<p>Information required at the time of order:</p> <p>Frozen Section: Y/N</p> <p>Danger of Infection / High Risk: Y/N</p> <p>Specimen Description: Site (and laterality, if required)</p> <p>Pre-operative diagnosis</p> <p>Clinical Information: Provide all relevant information</p> <p>CallBack Number: Physician's mobile number, in case of queries</p> <p>Orders placed (Duplicate, incorrect, or otherwise), where the specimen is not received in the laboratory within one (1) month of ordering will be cancelled.</p>
Collection Instructions	<p>1 Order = 1 Specimen site = 1 Pot</p> <p>Each pot must have a unique Julian Number/Label</p> <p>All specimens must include the (handwritten) date/time specimen was placed into pot.</p> <p>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.</p>

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	<p>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.</p> <p>See table below for specific specimen requirements.</p>
Turnaround Time	<p><u>Routine</u>: 7 calendar days</p> <p><u>Complex</u>: may take longer than 7 days</p> <p><u>Urgent</u>: As soon as possible depending on the histological techniques the tissue sample need to be subjected to.</p> <p><u>Frozen Section</u>: 30 minutes</p>
Tissue for disposal only	<p>Tissues not requiring pathology examination (e.g. Non-medical circumcision, routine placentas) should be disposed in surgical waste.</p> <p>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.</p> <p>NOTE: Fetuses should be sent with a Pathology Morgue Fetal Loss <20 Weeks Request.</p>

Pathology Laboratory Specimen Collection Guide

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 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

Pathology Laboratory Specimen Collection Guide

	<p>maintain chain of custody, specimens CANNOT be returned to their originating source for correction.</p> <p>See table below for specific specimen requirements.</p>
Turnaround Time	<p><u>Routine</u>: 7 calendar days</p> <p><u>Complex</u>: may take longer than 7 days</p> <p><u>Urgent</u>: As soon as possible depending on the histological techniques the tissue sample need to be subjected to.</p> <p><u>Frozen Section</u>: 30 minutes</p>

Pathology Laboratory Specimen Collection Guide

Test Name	Pathology Tissue Request - Multiple Samples
Order Schedule	<p>Tumors, frozen sections, IR liver biopsies, IR renal biopsies, and HD pull-throughs must be scheduled with the AP laboratory at least 24 hours in advance.</p> <p>AP Laboratory opening hours: 07:30-15:30 Sunday to Thursday (H2M-24000)</p> <p>Morgue opening hours 07:30-15:30 Sunday - Thursday (HM-33013)</p> <p>AP On-call (24/7): +974 3136 1305</p>
Order Information	<p>Tick the boxes of the specimens to be collected. The first box must be checked; Modify the specimen description of subsequent specimens, if necessary.</p> <p>Orders placed (Duplicate, incorrect, or otherwise), where the specimen is not received in the laboratory within one (1) month of ordering will be cancelled.</p>
Collection Instructions	<p>Additional training is required before usage, contact PEARL Team.</p> <p>1 Order = 1 Specimen site = 1 Pot</p> <p>Each pot must have a unique Julian Number/Label</p> <p>All specimens must include the (handwritten) date/time specimen was placed into pot.</p> <p>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.</p> <p>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</p>

Pathology Laboratory Specimen Collection Guide

	<p>maintain chain of custody, specimens CANNOT be returned to their originating source for correction.</p> <p>See table below for specific specimen requirements.</p>
Turnaround Time	<p><u>Routine</u>: 7 calendar days</p> <p><u>Complex</u>: may take longer than 7 days</p> <p><u>Urgent</u>: As soon as possible depending on the histological techniques the tissue sample need to be subjected to.</p> <p><u>Frozen Section</u>: 30 minutes</p>

Pathology Laboratory Specimen Collection Guide

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



Division of Clinical Biochemistry



Clinical Biochemistry

Test Orderable	17-d Hydroxyprogesterone
Synonym(s)	17OHP
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	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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	5 Aminolevulinic Acid Urine
Synonym(s)	
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	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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	5 HIAA 24 Hour Urine
Synonym(s)	5-hydroxyindoleacetic acid 24 Hr Urine
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	6 Thioguanine
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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							

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.

All detectable acetaminophen concentrations will be communicated.

Pathology Laboratory Specimen Collection Guide

Test Orderable	Adrenocorticotrophic Hormone
Synonym(s)	ACTH
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Albumin Level Urine
Synonym(s)	Microalbumin Urine, Urine Albumin 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	STAT TAT: N/A

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Aldolase
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Aldosterone
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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	Male	62	288	IU/L		
13 yrs	< 15 yrs	Female	130	534	IU/L		
15 yrs	< 17 yrs	Male	54	131	IU/L		
15 yrs	< 17 yrs	Female	90	377	IU/L		
17 yrs	< 19 yrs	Male	48	96	IU/L		
17 yrs	< 19 yrs	Female	59	168	IU/L		
19yrs	150 yrs	Both	43	115	IU/L		
19 yrs	< 50 yrs	Female	33	98	IU/L		
50 yrs	150 yrs	Female	43	115	IU/L		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Alkaline Phosphatase Isoenzymes
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Alpha 1 Acid Glycoprotein
Synonym(s)	Orosomucoid
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical 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.

Pathology Laboratory Specimen Collection Guide

Test Orderable	Alpha-1-Antitrypsin
Synonym(s)	A1AT, AAT
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Alpha-1-Antitrypsin phenotype
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Aluminium Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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.

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amino Acids (Plasma, Quantitative)
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 Limit	Upper Limit	Units	Critical Low	Critical 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 Limit	Upper Limit	Units	Critical Low	Critical 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 Limit	Upper Limit	Units	Critical Low	Critical High
0	150	Both	0	2	μmol/L		

Pathology Laboratory Specimen Collection Guide

Reference Intervals - Asparagine							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical 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 Limit	Upper Limit	Units	Critical Low	Critical 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 Limit	Upper Limit	Units	Critical Low	Critical High
0	<2	Both	0	4	μmol/L		
2	17	Both	0	3	μmol/L		
≥18	150	Both	0	2	μmol/L		

Pathology Laboratory Specimen Collection Guide

Reference Intervals – Glutamic Acid							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical 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		
2	17	Both	329	976	μmol/L		
≥18	150	Both	371	957	μmol/L		

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amino Acid Quantitative Urine
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amiodarone Level
Synonym(s)	Cordarone Lvl
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amitriptyline and Nortriptyline Levels
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical High
0	<1 month	Both	0	99	umol/L		>149
1month	less than 17 years	Both	0	49	umol/L		>149
17yrs	150 yrs	Both	18	72	umol/L		>149

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amphetamine Screen Urine
Synonym(s)	Urine Amphetamine 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection 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

Pathology Laboratory Specimen Collection Guide

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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Amylase Level Body Fluid
Synonym(s)	Body Fluid Amylase Level
Testing Location (if not Sidra)	HMC
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 Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Androstenedione
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Angiotensin Converting Enzyme
Synonym(s)	ACE
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Anti-Mullerian Hormone
Synonym(s)	AMH
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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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	Male	15	28	IU/L		>450
12 yrs	< 19 yrs	Female	16	37	IU/L		>450
19yrs	150 yrs	Male		<50	IU/L		>450
19yrs	150 yrs	Female		<35	IU/L		>450

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Benzodiazepine Screen Urine
Synonym(s)	Urine Benzodiazepine 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0 years	150 years	Female	0	5	IU/L	N/A	N/A

This test has only been validated for use in pregnancy

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Bile Acids Total
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 hrs
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	150 yrs	Both	0	10	umol/L	N/A	N/A

Note: All bile acid results greater than 10 umol/L will be phoned to the requesting clinician

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Biotinidase Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	C1 Esterase Inhibitor
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0 year	150 year	Female	0	35	kU/L	N/A	N/A

Pathology Laboratory Specimen Collection Guide

Test Orderable	CA 15-3
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	CA 19-9
Synonym(s)	
Testing Location (if not Sidra)	HMC
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	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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Calcitonin Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical 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.

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

Test Orderable	Carcinoembryonic Antigen
Synonym(s)	CEA
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Catecholamines Fractionated
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
Please refer to HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Catecholamines Fractionated Urine (Spot 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 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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Ceruloplasmin
Synonym(s)	Caeruloplasmin
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Chloride Level
Synonym(s)	Cl Lvl
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 To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0	< 19 yrs	Both	95	108	mmol/L		
19yrs	150 yrs	Both	95	108	mmol/L		

Pathology Laboratory Specimen Collection Guide

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	<1 year	Both	2	10	mmol/24hrs		
2 years	<5 years	Both	15	40	mmol/24hrs		
6 years	<10 years	Both	20	110	mmol/24hrs		
10 years	<14 years	Both	35	175	mmol/24hrs		
15 years	150 years	Both	110	250	mmol/24hrs		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Chloride Level Urine
Synonym(s)	Cl Level Urine, Urine Chloride Level
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Clozapine Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Cocaine Screen Urine
Synonym(s)	Urine Cocaine 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Comprehensive Metabolic Panel – (with Glucose)
Synonym(s)	CMP
Testing Location (if not Sidra)	
Specimen Type(s)	Blood
Container(s)	0-2y: Micro Li Hep Gel AND Micro Fluoride 2y-150y: SST and Fluoride Oxalate
Volume (recommended)	Microtainer: minimum 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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Conjugated Bilirubin
Synonym(s)	DBIL
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	4.0	8.8	umol/L		
15 d	< 1yr	Both	0.2	3.6	umol/L		
1 yr	< 9 yrs	Both	0.2	2.2	umol/L		
9 yrs	< 13 yrs	Both	0.2	3.4	umol/L		
13 yrs	< 19 yrs	Both	1	5	umol/L		
19yrs	150 yrs	Both	0	3	umol/L		

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Cortisol Free 24 Hour Urine
Synonym(s)	Urine Cortisol 24 Hour
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	Refrigerate during collection. Send Lab in 24hr
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							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	C-Peptide
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 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							

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0 yrs	150 yrs	Both	0	<7.5	mg/L		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Creatine Kinase
Synonym(s)	CK, CPK
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.

Pathology Laboratory Specimen Collection Guide

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	

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

Note pediatric reference values are per kilogram of patient weight.

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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				

Pathology Laboratory Specimen Collection Guide

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							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical 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.

Pathology Laboratory Specimen Collection Guide

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	Critical Low	Critical High
All ages male and female							
<p>Cyclosporine Trough Target range:100 – 300 mcg/L</p> <p>Toxic effects have been reported at concentrations of 400 mcg/L and above.</p> <p>Sample analyzed using Tandem Mass Spectrometry</p>							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Cystatin C
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Cystine 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 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							

Pathology Laboratory Specimen Collection Guide

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	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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Digoxin Level
Synonym(s)	Dig Level
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Dihydrotestosterone
Synonym(s)	DHT
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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).

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Estradiol Level
Synonym(s)	Oestradiol Lvl
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	193	pmol/L	N/A	N/A
1 year	<12 years	Both	0	70	pmol/L	N/A	N/A
12 years	<19 years	Female	20	728	pmol/L	N/A	N/A
12 years	<19 years	Male	0	157	pmol/L	N/A	N/A
19 years	150 years	Male	73	173	pmol/L	N/A	N/A
19 years	150 years	Female	100	450	pmol/L	N/A	N/A

Estradiol reference interval for females 12 to 18 years also includes ovulating women at all stages of their menstrual cycle.

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Ethosuximide
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Fatty Acid Profile
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Fecal alpha-1-antitrypsin
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Fecal Chymotrypsin
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Fecal Fat Quantitative
Synonym(s)	Faecal Fat Quantitative
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	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							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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	Lower Limit	Upper Limit	Units	Critical Low	Critical High
0 year	150 years	Both	See comment 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.'

Pathology Laboratory Specimen Collection Guide

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:

$$\text{FAI} = \text{Testosterone} / \text{SHBG} \times 100$$

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		%		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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	Lower Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Fructosamine
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

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			

Pathology Laboratory Specimen Collection Guide

Test Orderable	Gastrin Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0	15 yrs	Both	3.9	6	mmol/L	2.6	14.9
16 yrs	150 yrs	Both	3.9	6	mmol/L	2.6	19.9

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0	15 yrs	Both			mmol/L	<2.6	>14.9
16 yrs	150 yrs	Both			mmol/L	<2.6	>19.9

Pathology Laboratory Specimen Collection Guide

Test Orderable	Growth Hormone Level
Synonym(s)	GH
Testing Location (if not Sidra)	HMC
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 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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Haptoglobin
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Homocysteine Total
Synonym(s)	HCTX
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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	IGF Binding Protein-3
Synonym(s)	Insulin Like Growth Factor Binding Protein 3
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Infliximab Concentration
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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		

Pathology Laboratory Specimen Collection Guide

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 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		

Pathology Laboratory Specimen Collection Guide

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
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							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Kappa Lambda, Free Light Chains Blood
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Kappa Lambda, Free Light Chains 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Kidney Stone Analysis
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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	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
N/A							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Lead Level
Synonym(s)	Pb Level
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Element EDTA tube (Navy Blue top)
Volume (recommended)	6mL
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							

Pathology Laboratory Specimen Collection Guide

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		
1 yr	9 yrs	Both	5	31	IU/L		
10 yrs	19 yrs	Both	7	39	IU/L		
19 yrs	150 yrs	Both		<67	IU/L		

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Lithium Level
Synonym(s)	Li Lvl
Testing Location (if not Sidra)	HMC
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							

Pathology Laboratory Specimen Collection 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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Lysosomal and Peroxisomal Storage Disorders Screen
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Manganese Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
Specimen Type(s)	Blood
Container(s)	0-150 years: Trace Serum
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Metanephrines
Synonym(s)	Plasma Metanephrines
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
					umol/L		

For drug interpretation and management of dosing consult relevant oncology protocol on the portal:
 Management guidelines Acute lymphoblastic leukemia protocol “ON THE PORTAL “

Management Guidelines for ALL-BFM

2.2 Results of AIEOP-BFM ALL 2000 ... From 2000 to 2006, the AIEOP-BFM ALL Consortium performed the largest international trial (AIEOP-BFM ALL 2000) in which the stratification ...

<http://portal.sidra.org/medicaloperations/jci/SupportingDocs/COP/Evidence-BFM.docx>

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.

[Management Guidelines for ALL-BFM](#)

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Mycophenolic Acid Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Myoglobin
Synonym(s)	
Testing Location (if not Sidra)	HMC
Specimen Type(s)	Blood
Container(s)	0-150 years: Plain
Volume (recommended)	3 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							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Opiate Screen Urine
Synonym(s)	Urine Opiate 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Organic Acids Screen Urine
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	275	300	mOsm/kg H ₂ O		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0	150yrs	Both	50	1400	mOsm/kg H ₂ O		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Osteocalcin
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Pancreatic Polypeptide
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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)	Microtainer: 0.5 mL Plain: 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 years	Both	10	40	mg/L		>60

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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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

Reference Intervals					
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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Porphyrins Fecal
Synonym(s)	Faecal Porphyrins, Porphyrins Stool
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High

No reference interval quoted.

Pathology Laboratory Specimen Collection Guide

Test Orderable	Prealbumin
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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.

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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 notes			N/A	N/A

Prolactin reference interval for children provided next to result.

For adults greater than 19 years:

Male: 55 - 280 mIU/L

Female (pre-menopausal): 70 - 570 mIU/L

Female (post-menopausal): 6 - 420 mIU/L

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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		

Pathology Laboratory Specimen Collection Guide

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				

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

Test Orderable	Protein Electrophoresis Urine
Synonym(s)	Urine Protein Electrophoresis
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Protein Level Urine (Spot sample)
Synonym(s)	Urine Protein 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	N/A

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Pseudocholinesterase
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Renin Activity
Synonym(s)	
Testing Location (if not Sidra)	HMC
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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Salicylate 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.

Pathology Laboratory Specimen Collection Guide

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

Test Orderable	Selenium Level
Synonym(s)	Se
Testing Location (if not Sidra)	Mayo
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 Mayo Lab Guide							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
All ages, male and female.							
Trough Sirolimus Target Range:							
4.0 – 20.0 µg/L (Single therapy with Sirolimus)							
4.0 – 12.0 µg/L (Triple therapy with Cyclosporine, corticosteroids and Sirolimus)							
12.0 – 20.0 µg/L (Dual therapy with corticosteroids and Sirolimus)							
Analytical method: Liquid chromatography tandem mass spectrometry (LC-MS/MS)							

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High

No reference intervals quoted

Pathology Laboratory Specimen Collection Guide

Test Orderable	Soluble Transferrin Receptor Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 mL
Special Handling Requirements	<p>To increase the likelihood of collecting an adequate sweat specimen, patients should meet the following criteria:</p> <p>For asymptomatic newborns with positive screen or positive pre-natal genetic testing:</p> <ul style="list-style-type: none"> • Greater than 10 days old • Greater than 36 weeks gestation • Weigh > 2kg. <p>For symptomatic newborns (e.g. those with meconium ileus)</p> <ul style="list-style-type: none"> • 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. <p>Please contact pulmonology clinic to arrange an appointment for this procedure</p>
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

Pathology Laboratory Specimen Collection Guide

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	
STAT Turnaround Time	

Target Range							
Age From	Age To	Sex	Lower Limit	Upper Limit	Units	Critical Low	Critical High
All ages male and female.							
Trough Tacrolimus Target Range:							
7.0 – 21.0 mcg/L (Immediately after transplant)							
8.5 – 17.0 mcg/L (in stable liver and kidney transplant)							
Up to 20.0 mcg/L (in pancreas and bone marrow transplant)							
Sample analyzed using Tandem Mass Spectrometry							

Pathology Laboratory Specimen Collection Guide

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 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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Theophylline Level
Synonym(s)	Aminophylline Level
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	

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Thiopurine Methyltransferase
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical High
18 years	80 years	Both	0	10	kU/L	N/A	N/A

No reference interval quoted for children

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Tobramycin Level (Once Daily Pre)
Synonym(s)	Nebcin Lvl Once Daily Pre
Testing Location (if not Sidra)	Mayo
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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Tobramycin Level Peak
Synonym(s)	Nebcin Lvl Peak
Testing Location (if not Sidra)	Mayo
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	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)	Mayo
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

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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
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		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

Test Orderable	Triglycerides
Synonym(s)	TG, 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	STAT TAT: 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		>20
15 d	< 1 yr	Both	0.6	2.5	mmol/L		>20
1yr	< 19 yrs	Both	0.6	2.5	mmol/L		>20
19 yrs	< 150 yrs	Both			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

Pathology Laboratory Specimen Collection Guide

Test Orderable	Troponin-I Level
Synonym(s)	Tnl 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	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 month	150 years	Both	0	40	ng/L	N/A	N/A

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

Pathology Laboratory Specimen Collection Guide

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 (Birth day)	Day 1	Both	2.43	24.03	mIU/L		
Day 1	Day 2	Both	1.90	17.58	mIU/L		
Day 2	Day 3	Both	1.40	13.10	mIU/L		
Day 3	Day 4	Both	0.94	9.65	mIU/L		
Day 4	Day 5	Both	0.60	6.82	mIU/L		
Day 5	Day 7 (1 Week)	Both	0.58	5.58	mIU/L		
Day 7 (1 Week)	12 years	Both	0.76	4.64	mIU/L		
12 years	150 years	Both	0.38	5.33	mIU/L		

Pregnancy Related Reference Intervals					
Trimester	Lower Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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

Pathology Laboratory Specimen Collection Guide

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							

Pathology Laboratory Specimen Collection Guide

Test Orderable	Urea Nitrogen Urine
Synonym(s)	Urine Urea Nitrogen
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	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							

Pathology Laboratory Specimen Collection 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 Limit	Upper Limit	Units	Critical Low	Critical High
0	18 yrs	Both	0	0.21	mmol/kg/ 24 hrs		
19 yrs	150 yrs	Both	1.5	4.5	mmol/24 hrs		

Note pediatric reference values are per kilogram of patient weight

Pathology Laboratory Specimen Collection Guide

Test Orderable	Uric Acid Body Fluid
Synonym(s)	Body Fluid Uric Acid
Testing Location (if not Sidra)	HMC
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				

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical 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		

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High

No reference interval provided

Pathology Laboratory Specimen Collection Guide

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
pH	5.0 to 8.0
Protein	Negative, Trace
Glucose	Negative
Ketones	Negative
Bilirubin	Negative
Blood	Negative
Urobilinogen	Negative, Trace
Nitrite	Negative
Leukocyte Esterase	Negative

Pathology Laboratory Specimen Collection Guide

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 or renal epithelial cells	None
Bacteria	None
Yeast	None
Crystals	None
Casts	None

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

Test Orderable	Vancomycin Level – IV Continuous
Synonym(s)	Vancomycin -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 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 Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0	150 yrs	Both	10	20	mg/L		>20

- Sample to be taken pre-dose Children's Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=5428589>
- Adult Antibiotic Guidelines: <https://libguides.sidra.org/c.php?g=707624&p=7041807>

Pathology Laboratory Specimen Collection Guide

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	11 Years	both	0.7	1.75	mcmol/L	NA	NA
11 Years	150 Years	both	1.05	2.09	mcmol/L	NA	NA

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Pathology Laboratory Specimen Collection Guide

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'

Pathology Laboratory Specimen Collection Guide

Test Orderable	Vitamin B6 Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection 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

Pathology Laboratory Specimen Collection Guide

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 Limit	Upper Limit	Units	Critical Low	Critical High
0 minutes	13 year	both	4	24	mcmol/L	NA	NA
13 years	20 years	both	17	26	mcmol/L	NA	NA
20 years	150 years	both	15	46	mcmol/L	NA	NA

Pathology Laboratory Specimen Collection Guide

Test Orderable	Vitamin K Level
Synonym(s)	
Testing Location (if not Sidra)	Mayo
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							

Pathology Laboratory Specimen Collection Guide

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 HMC Lab Guide							

Point of Care

Test Orderable	Arterial Blood Gas POC, Capillary Blood Gas POC, Circuit Arterial Blood Gas POC, Circuit Venous Blood Gas POC, Mixed Venous Blood Gas POC, Umbilical Cord Arterial Blood Gas POC, Umbilical Cord Venous Blood Gas POC, Venous Blood Gas POC
Description	Blood Gas Analysis
Specimen	Fresh arterial, mixed venous, venous, capillary, cord, 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 pCO ₂ Sensor (pCO ₂), Amperometric (pO ₂), Enzymatic Biosensors (Glu, Lac), Conductivity Sensor (Hct), Optical System XO-Oximetry (Hb, O ₂ Hb, COHb, MetHb, HHb, SO ₂ , Bilirubin)
Parameters Measured	Blood Gas (pH, pCO ₂ , pO ₂), Electrolytes (Na, K, Cl, iCa), Metabolites (Glu, Lac), CO-Oximetry (Hb, O ₂ Hb, COHb, MetHb, HHb, Bilirubin)
Reference Interval	
Performing Test Location(s)	All Sidra

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC 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	
Reference Interval	
Performing Test Location(s)	Main OR, ICUs, Cath Lab

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC Amnisure
Description	
Specimen	Vaginal swab
Minimum Volume	N/A
Testing Interval	Immediate processing of the samples
Devices in Use	Amnisure ROM test kit
Method	Detection of ICFBP-1 and AFP proteins in cervical secretions
Parameters Measured	
Reference Interval	If both test and control lines are visible, test is positive If only control line is visible, test is negative
Performing Test Location(s)	Ob Triage, Women's Urgent Care, Antepartum

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC Creatinine
Description	iSTAT Creatinine
Specimen	Fresh arterial, mixed venous, venous, capillary, cord, 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 Interval	
Performing Test Location(s)	Diagnostic Imaging (Plaza OPC, Plaza Hospital, Interventional Radiology)

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC Glucose
Description	
Specimen	Fresh whole blood (arterial, venous, capillary)
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	
Reference Interval	Normal: 4 – 6 mmol/L
Performing Test Location(s)	All Sidra

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC 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	
Reference Interval	
Performing Test Location(s)	Endocrine Clinic

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC 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	
Reference Interval	
Performing Test Location(s)	Main OR, 3 rd and 4 th floor OR

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC iSTAT CG8+
Description	iSTAT CG8+
Specimen	Fresh arterial, mixed venous, venous, capillary, cord, 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, pCO ₂ , pO ₂ , Na, K, iCa, Glu)
Parameters Measured	Blood Gas (pH, pCO ₂ , pO ₂), Electrolytes (Na, K, Cl, iCa), Metabolites (Glu)
Reference Interval	
Performing Test Location(s)	All Sidra

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC Ketone
Description	
Specimen	Fresh whole blood (arterial, venous, capillary)
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	
Reference Interval	Critical: ≥ 3.0 mmol/L
Performing Test Location(s)	All Sidra

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC 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 Interval	
Performing Test Location(s)	All Sidra

Pathology Laboratory Specimen Collection Guide

Test Orderable	POC Urine Pregnancy
Description	
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	β hCG
Reference Interval	
Performing Test Location(s)	All Sidra



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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line Samples should be collected four (4) hours following heparin dose administration.
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>The aPTT does not test for the activity of Factor 13, and does not test platelet function.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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).</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection 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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.)</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	Erythrocyte Sedimentation Rate provides a very nonspecific measure of the patient's inflammatory status. It should be interpreted with caution.

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

Test Name	Factor 5 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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.)</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
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 elderly patients of either sex.

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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 failure, 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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
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.

Pathology Laboratory Specimen Collection Guide

Test Name	Factor V Leiden
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	HMC
Clinical Information	<p>Factor 5 Leiden (abbreviated F5L or FVL) is the most common inherited prothrombotic disorder.</p> <p>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".</p> <p>F5L is implicated primarily in deep venous thrombosis and pulmonary embolism, rather than arterial thrombosis. Other venous thromboses (e.g. cerebral, mesenteric) are also reasonably common in this condition.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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).</p> <p>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).</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	<p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>"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).</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Collect Sun-Thurs only, before 10 am
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Collect Sun-Thurs only, before 10 am
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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)	<p>Two tubes 1.8mL Citrate Blood sample filled up to the mark on the tube label. (Blue top tube, 3.2% Citrate)</p> <p>In case of high hematocrit (>55%) contact the lab before extracting blood for all coagulation testing because special tube(s) will be provided.</p>
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	<ul style="list-style-type: none"> You must contact the Hematology-Coagulation Lab (Ext. 32961) before collecting the specimen as the sample has 4 hours validity. Do not centrifuge
Patient Preparation	<ul style="list-style-type: none"> 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 ginkgo biloba supplements for 8-10 hours prior to the blood collection as these can interfere with test results.
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>Protein C activity may also be reduced in various acquired states, including liver failure, vitamin K deficiency, and sepsis.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	<p>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.</p> <p>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).</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	<p>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.</p> <p>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.</p> <p>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.</p>

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Fill to line
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Deliver in 30 min
Clinical Information	<p>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.</p> <p>In VWD, the patient is deficient in von Willebrand factor (VWF), or has a dysfunctional VWF.</p> <p>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.</p> <p>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.</p>

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
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."

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	Send to lab immediately - MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	Only performed for Rheumatology, or if ANA positive

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	Added routinely by Pathology to new positive IgA tTG results. Otherwise requesting limited to Gastroenterology.

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

Test Name	Immunoglobulins Total	
Synonym(s)	IgA, IgG, IgM	
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	HMC	
Clinical Information		

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	HMC
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
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.

Pathology Laboratory Specimen Collection Guide

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		

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	This order is for IgA TTG only. The IgG TTG will be tested in cases of IgA deficiency only.

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	MML
Clinical Information	

Transfusion Medicine

Test Name	ABORh
Synonym(s)	Blood Type
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: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
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.

Pathology Laboratory Specimen Collection Guide

Test Name	Antibody Screen
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: EDTA TML2 1/2y-150y: EDTA TML6
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	<p>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.</p> <p>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 hemolytic anemia.</p>

Pathology Laboratory Specimen Collection Guide

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: 4 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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
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

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	<p>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.</p>

Pathology Laboratory Specimen Collection Guide

Test Name	Group and Screen
Synonym(s)	Group and Save, Type and Screen
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)	
Container(s)	
Collection volume	Please refer to the Non-Micro Collection Quick Reference Guide in APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

Test Name	Hematopathologist 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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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: 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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

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 APPENDIX B
Special Handling	
Clinical Information	

Pathology Laboratory Specimen Collection Guide

Test Name	Transfusion Reaction Workup
Synonym(s)	
Testing Status	In-House
Routine TAT	No TAT available
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 APPENDIX B
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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.

Pathology Laboratory Specimen Collection Guide

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 Requirement	Sterile Container (Min. Vol.: 1 mL)
Additional Collection Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Tip
Specimen Requirement	Sterile Container
Additional Collection Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

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, Conjunctival 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) Conjunctival 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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Request Media/Plate on Site. Transport to the lab immediately

Pathology Laboratory Specimen Collection Guide

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, Tissue
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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately. Do not refrigerate.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately, all antigen tests are followed up by a confirmatory culture

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab immediately.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Test performed at HMC. Transport to the lab within 2 hours.

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to PRO-O-Microbiology Specimen Collection
Special Handling	Transport to the lab within 2 hours

Pathology Laboratory Specimen Collection Guide

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 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	

Pathology Laboratory Specimen Collection Guide

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 <i>H. influenzae</i> 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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

Test 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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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: <i>Toxoplasma</i> IgG Antibody <i>Toxoplasma</i> 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 Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST >2 Years: SST Recommended volume: 3.5 mL
Special Handling	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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 <i>Toxoplasma</i> IgM Antibody
Specimen Type	Blood
Specimen Requirement	<2 Years: Micro SST >2 Years: SST Recommended volume: 1.0 mL
Special Handling	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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	

Pathology Laboratory Specimen Collection Guide

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).

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 <i>in situ</i> 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	<p>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.</p> <p>It is advisable to add a companion order (PG Genetic Test) for DNA banking and possible reflex testing.</p>

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	<p>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.</p> <p>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.</p>

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	<p>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.</p> <p>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.</p>

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	<p>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.</p> <p>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.</p>



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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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</i> , <i>Clostridium difficile</i> , <i>Plesiomonas shigelloides</i> , <i>Salmonella</i> spp., <i>Shigella</i> spp./Enteroinvasive <i>E. coli</i> , <i>Yersinia enterocolitica</i> , <i>Vibrio</i> (<i>parahaemolyticus</i> , <i>vulnificus</i> , and <i>cholerae</i>), <i>Vibrio cholera</i> , <i>Enteropathogenic E. coli</i> , <i>Enterotoxigenic E. coli</i> , <i>Shiga-like toxin-producing E. coli</i> (<i>stx1/stx2</i> / <i>E. coli</i> O157), <i>Cryptosporidium</i> , <i>Cyclospora cayetanensis</i> , <i>Entamoeba histolytica</i> , <i>Giardia lamblia</i> , <i>Adenovirus F40/41</i> , <i>Astrovirus</i> , <i>Norovirus GI/GII</i> , <i>Rotavirus</i> <i>A</i> , <i>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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

Test Name	Clostridium difficile PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	<i>C. difficile</i> 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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

Test Name	Group B Strep PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	GBS PCR, <i>S. agalactiae</i> PCR, <i>Streptococcus agalactiae</i> 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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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	<p>BAL: Sterile Container (Min. Vol.: 2 mL)</p> <p>Blood:</p> <p><2 Years: Map EDTA (Recommended Vol.: 1.0 mL)</p> <p>>2 Years: EDTA (Recommended Vol.: 3.0 mL)</p> <p>Bronchial Wash: Sterile Container (Min. Vol.: 2 mL)</p> <p>CSF: Sterile Container (Min. Vol.: 2 mL)</p> <p>Eye Swab: ESwab</p> <p>Genital: ESwab</p> <p>Mouth Swab: ESwab</p> <p>Nasopharyngeal Swab: ESwab</p> <p>Rectal Swab: ESwab</p> <p>Skin Swab: ESwab</p> <p>Throat Swab: ESwab</p> <p>Tissue: Sterile Container</p> <p>Tracheal Aspirate: Sterile Container (Min. Vol.: 2 mL)</p> <p>Tracheal Wash: Sterile Container (Min. Vol.: 2 mL)</p> <p>Urine: Sterile Container (Min. Vol.: 5 mL)</p> <p>Vitreous Fluid: Sterile Container (Min. Vol.: 0.5 mL)</p>
Additional Collection Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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) Urine: Sterile Container (Min. Vol.: 2 mL)
Additional Collection Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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</i> , <i>Chlamydophila 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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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: <i>Mycobacterium tuberculosis</i> , 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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 pneumoniae 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 Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated

Pathology Laboratory Specimen Collection Guide

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 Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated




Pathology Laboratory Specimen Collection Guide

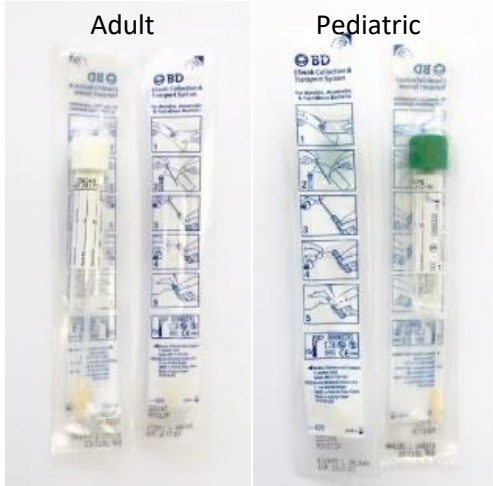

Test Name	Covid-19 PCR
Division	Pathology Sciences (Molecular Infectious Diseases)
Synonyms & Care Sets	SARS-CoV-2 PCR
Testing Status	In-House
Turn-Around Time	Routine TAT: 24 h Urgent TAT: 24 h STAT TAT: 90 minutes (except 1:00 am to 6:00 am)
Additional Information	
Specimen Type	Preferred specimen: Nasopharyngeal Flocked Swab Other acceptable 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/2 gram)
Additional Collection Instructions	Refer to Appendix A
Special Handling	Keep and Send Refrigerated





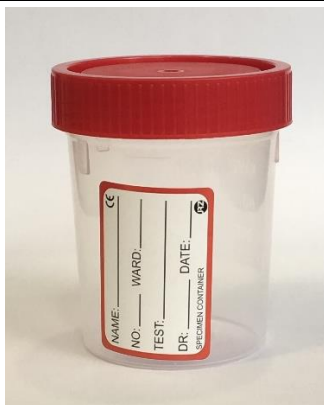

APPENDIX A – MICROBIOLOGY COLLECTION QUICK REFERENCE GUIDE

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]

Pathology Laboratory Specimen Collection Guide

		
Required Volume: 8-10 ml	Required Volume: 1-3 ml	Required Volume: 1-5 ml
Used for: Blood Culture Body Fluid Culture Bone Marrow Culture Brucella Blood Culture	Used for: Blood Culture Body Fluid Culture Bone Marrow Culture Brucella Blood Culture	Used for: AFB Blood Culture Fungal Culture Blood

Swabs		
ESwab Regular (Adult - white top) [10010515] or MiniTip (Pediatric - green top) [10010517]		Red Top Double Swab [10005732]
		
Used for: CPO/ESBL Screen VRE Screen VZV - HSV PCR Wound Culture Throat Culture <i>Neisseria gonorrhoeae</i> Culture		Used for: MRSA Screen MRSA PCR GBS Screen GBS PCR








Microbiology Collection Quick Reference Guide [with Lawson Catalog Numbers]		
Swabs	STD Collection Kits	
Viral Collection Kit [10045330]	STD Collection Kit (Urine) [10012782]	STD Collection Kit (Swab) [10012781]
		
Used for: Flu - RSV PCR Respiratory Pathogen PCR Panel <i>Bordetella pertussis</i> PCR Nasopharyngeal swab for all viral PCRs (e.g., Measles Virus PCR, MERS-CoV PCR, etc.) Buccal swab for Mumps Virus PCR	Used for: Chlamydia - Gonorrhoea PCR <i>Trichomonas vaginalis</i> PCR	
Containers		
Urine Cup (blue lid) [10008784]	Sterile Container (red lid) [10004162]	Sputum Collection Kit [10010514]
		
Used for: Urine culture <i>Legionella</i> Urine Antigen <i>Streptococcus pneumoniae</i> Urine Antigen Other urine tests (including PCR)	Used for: Bronchoalveolar lavage Tracheal aspirate Body Fluid Culture Tissue/Biopsy Culture Stool Culture Ova & Parasites <i>C. difficile</i> PCR Other stool tests	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/Red Top		SST/Yellow Top		Heparinized/ Green Top		PST/ Mint Green 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																
Required volume	1.8mL	1-4mL	250 - 500µL	1.5-3.5mL	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 tests, alternative to Biochemistry tests		For serum determination: Biochemistry, Immunology, Serology, Other drug monitoring		For tests requiring heparinized whole blood: Blood gas, Ammonia, Drug Monitoring, Quantiferon		For tests requiring heparinized Plasma. Used for biochemistry tests for patients < 2yrs.		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 used for glucose test.												
Non-blood																
Container name	Universal Container (red lid)			Sterile Container (red lid, individually wrapped, sterile inside & out)				Lumbar puncture tray tubes								
Lawson Number	10004162							1018996								
Container																
Required volume	Varied			Varied				0.5-1mL								
Used for	CSF, Fresh tissue, Body fluids			CSF, Fresh tissue, Body fluids				CSF, Body fluids								
Note				For use when a lumbar puncture tray is not being used and container must be sterile on the 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	<ul style="list-style-type: none"> Cerner barcode – Place the label directly over the tube label Ensure there is a gap to visibly see the blood 	<ul style="list-style-type: none"> Winkled barcode Barcode wrapped around the tube 
Serum / Plasma Pediatric Tube	<ul style="list-style-type: none"> Cerner Label placed vertical on the tube 	<ul style="list-style-type: none"> Label wrapped around tube 
Urinalysis, Urine C&S, stool, sputum container 100 ml cup	<ul style="list-style-type: none"> Patient Hospital label with time and date of collection Also label with Cerner Barcode 	
Urinalysis 10 ml Aliquot	<ul style="list-style-type: none"> Cerner Barcode Place the label directly over the tube label 	<ul style="list-style-type: none"> Do not wrap label around the tube or place to high or low 

Pathology Laboratory Specimen Collection Guide

Specimen type	Acceptable	Not Acceptable
24 Hour Urine	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Required information not completed Missing start date and time or a finish date and time
Handwritten labels	<ul style="list-style-type: none"> Label with Cerner barcode when available Do not cover the handwritten name with the barcode 	<ul style="list-style-type: none"> Cerner label over the original handwritten label
Blood Culture Bottles	<ul style="list-style-type: none"> The label must be vertical so it is easier to scan into the instrument and the label must not cover the barcode 	<ul style="list-style-type: none"> Not acceptable – when the label covers the bottle barcode 
All Swabs	<ul style="list-style-type: none"> Cerner Label with initials Must write collection site on the label as well as the time and date of collection 	<ul style="list-style-type: none"> No time or date of collection or site of collection