



1

Through this module you will:

1. Learn how to perform daily and monthly point-of-care quality assurance testing
2. Develop knowledge of lab policy and procedure for general specimen collection and quality assurance practices
3. Obtain specific knowledge and skill of obtaining specimens, and which requisitions are used for:
 - Routine Blood work (onsite/ offsite)
 - Microbiology, Public Health
 - Oral Glucose Tolerance Testing (OGTT)
 - In-clinic testing: point of care tests
4. Transportation of Laboratory Specimens
5. Sexual Assault Evidence Kit

Learning Objectives

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2 of 52

2



Clinic Lab Facilities

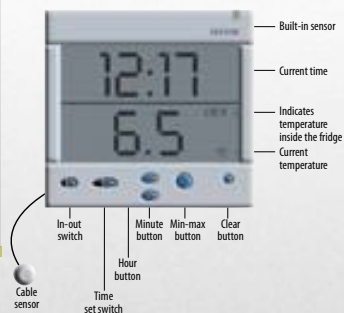
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3 of 52

3

Vaccine Temperature Log Book

Month: January, 2011 Office/Facility: ABC Family Practice

Week 1	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Time	AM	PM	AM	PM	AM	PM	PM
Current Temp	5.8	7.0	5.6	5.7	6.8	3.2	5.3
Max Temp	6.8	6.5	6.0	6.8	6.7	7.1	10.4
Min Temp	3.4	3.5	2.9	3.3	3.4	4.0	2.5
Initials	AB	AB	AA	AA	AA	AA	AA



- Nurse on first call notes Maximum/Minimum temperatures twice daily: first thing in the morning, and at the end of the clinic day.
- Always reset your maximum/ minimum thermometer after recording the temperature readings.
- Out-of-Range temperatures – any temperature readings below +2°C and/or above +8°C must be reported to your public health unit immediately.

Vaccine Fridge Temperature Log

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4 of 52

4

- Daily calibration of several instruments done
- Performed prior to the start of clinic day.
- Generally done or delegated by the 1st nurse on call for that day
- All HemoCue and Blood Glucose Monitors in the clinic can be done at the same time.
- Once per month, a lab sample sent for correlation. (note on req and sample "QA")
- Once per month, equipment should be cleaned.



Point of Care Quality Assurance

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5 of 52

5

Sioux Lookout Zone Nursing Office, Health Canada - First Nations Inuit Health
HemoCue Quality Control Log

Month/Year: _____ Station: _____
Meter # or location: _____
Controls: Cuvette Value _____ OR Solution: High _____ Low _____
Results should not deviate from assigned control value more than +/- 0.3g/dL; 0.2 mmol/L
P = Pass, F = Fail

Test Date	Result	P	F	Initials	Test Date	Result	P	F	Initials
1	132	✓			17	JS			
2					18				
3					19				
4					20				
5					21				
6					22				
7					23				
8					24				
9					25				
10					26				
11					27				
12					28				
13					29				
14					30				
15					31				
16									

Verification with lab: Date drawn _____ Lab Result _____ Meter Pass / Fail _____
(Lab result should be within +/- 10% of HemoCue result)

Maintenance on machine & control cuvette (monthly): Date: _____
Keep Original in station x 2 years
HemoCue® Operating Manual in Laboratory Manual R: Dec08

Sioux Lookout Zone Nursing Office, Health Canada - First Nations Inuit Health
Glucometer Quality Control Testing Log

Month/Year: _____ Station Name: _____
Control Range: _____
Glucosemeter #, name or location: _____
High/Low values on each test strip bottle

Test Date	Result HI		Result Low		Initials	Test Date	Result HI		Result Low		Initials
	Pass	Fail	Pass	Fail			Pass	Fail	Pass	Fail	
1	14.8		3.1		JS	17					
2						18					
3						19					
4						20					
5						21					
6						22					
7						23					
8						24					
9						25					
10						26					
11						27					
12						28					
13						29					
14						30					
15						31					
16											

Monthly Verification/Correlation with lab: Date drawn _____ Lab Result _____
Meter: Pass / Fail _____
(Lab result should be within +/- 20% of Glucometer result)
Keep Original in station x 2 years - Send copy to NPC monthly October 2014

HemoCue and Glucose Quality Control Log (monthly)

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6 of 52

6

- Blood work done in the morning, to ensure completion before afternoon flight.
- Fasting patients should be done first.
- Check the weather, and consult with NIC/ reception staff to find out if flights may be cancelled
- VacuTainer products used, exam rooms should be restocked on admin day.
- Straight needles preferred, as samples taken with butterfly needles are prone to hemolysis. (they remain available for use with patients who are 'difficult sticks')



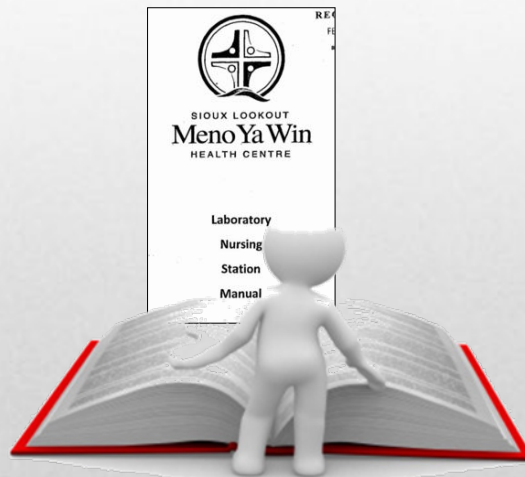
Routine Bloodwork

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7 of 52

7

Lets take a look at the “Nursing Station Laboratory
Manual”

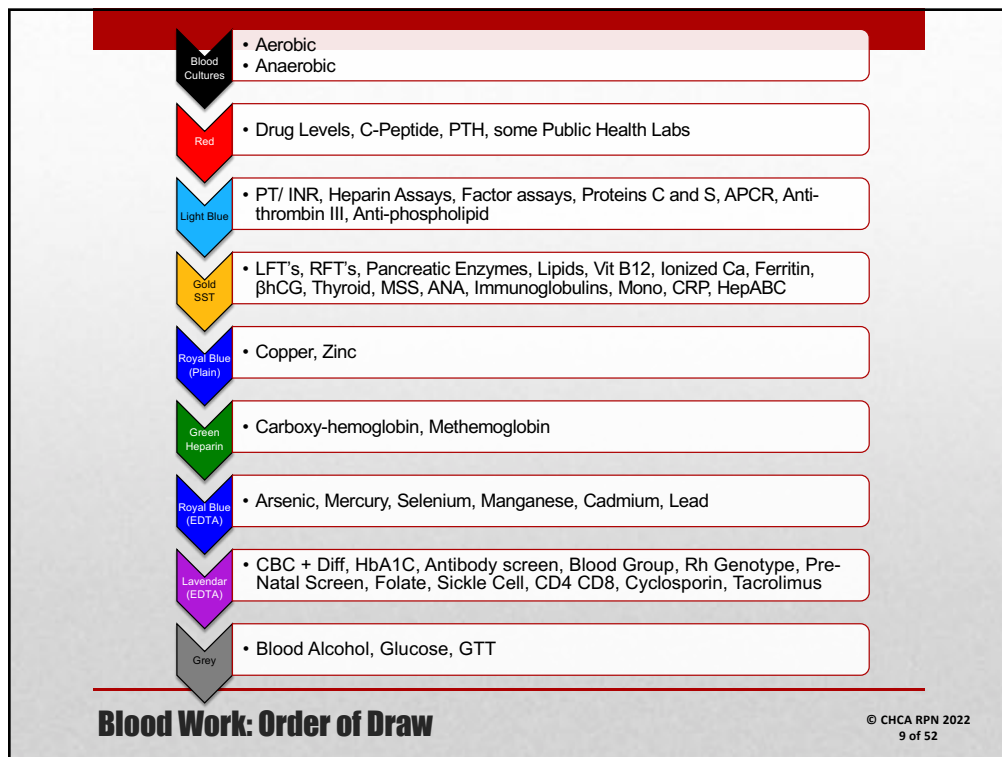
AKA: Your “best friend”



Blood Work: Onsite / Offsite

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8 of 52

8



9



10

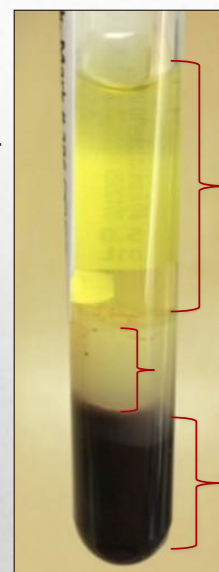


Remember to balance your tubes!

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11 of 52

11

- All specimens transported as soon as possible: monitor for delays due to weather, and have patients return if needed
- Gold - SST specimens must first be allowed to clot vertically for 10-15 min; then centrifuged at 3000rpm for 10 min
- Avoid specimen exposure to light
- Keep tubes closed
- Volume must be sufficient – allow vacuum to pull blood volume into tube.
- Examine plasma and serum for red cells, which should be entirely separated by buffy coat layer
- Do not re-centrifuge – redraw specimen.
- **Pour- off serum or Pipette** into clear tube with white cap. Label this tube. Freeze or refrigerate if delay is expected.



Handling Serum/ Plasma (Sioux Lookout Zone)

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12 of 52

12

- **CBC** can be refrigerated 24-48hours without affecting cell counts or morphology
- **Coagulation:** must be received within 24 hours of venipuncture; **if delay**, then can be centrifuged and plasma separated and frozen (labeled PLASMA)
- **Chemistry:** separated serum/plasma shall not remain at room temperature for more than 8 hours. Samples must be stored at 4°C or frozen in order to preserve the concentration of analytes.

Collection Guidelines

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13 of 52

13

#1 Meno Ya Win Way
P.O. Box 900
Sioux Lookout, ON
P6T 1M6 807-337-3030 x400
Fax: 807-337-3254

**Laboratory Requisition
ON-SITE TESTING**

PLEASE ENSURE THAT ALL AREAS OF THIS FORM ARE COMPLETED

Ordering Physician: Patient Location: <input type="checkbox"/> Report To: <input type="checkbox"/> North Pod <input type="checkbox"/> ER <input type="checkbox"/> South Pod <input type="checkbox"/> Maternity <input type="checkbox"/> Prenatal Clinic <input type="checkbox"/> HAC <input type="checkbox"/> Ext Care <input type="checkbox"/> Apt Clinic - PHCU <input type="checkbox"/> Com Care <input checked="" type="checkbox"/> Nursing Station <input type="checkbox"/> Other: _____ Date Collected: _____ Time Collected: _____ Collected By: _____		REQUIRED INFORMATION: Name: _____ Date of Birth: _____ Health Card Number: _____	
Clinical Information: Female: <input type="checkbox"/> YES <input type="checkbox"/> NO Gender: <input type="checkbox"/> MALE <input type="checkbox"/> FEMALE <input type="checkbox"/>		HEMATOLOGY <input type="checkbox"/> CBC/DIFF (No DIFF if specimen > 24hrs) <input type="checkbox"/> RETIC	
CHEMISTRY <input type="checkbox"/> Glucose, Fasting <input type="checkbox"/> Glucose, random <input type="checkbox"/> Glucose, 2 hr po <input type="checkbox"/> Glucose, 1 hr post 50g <input type="checkbox"/> Glucose, 75g GTT Pregnancy (Fing. 1hr, 2hr) <input type="checkbox"/> Glucose, 75g GTT (Fst, 2hr) <input type="checkbox"/> BUN/Urea <input type="checkbox"/> Creatinine (eGFR) <input type="checkbox"/> Lymes <input type="checkbox"/> Sodium <input type="checkbox"/> Potassium <input type="checkbox"/> Chloride <input type="checkbox"/> Carbon Dioxide/Bicarb <input type="checkbox"/> CK <input type="checkbox"/> LDH <input type="checkbox"/> AST <input type="checkbox"/> ALT <input type="checkbox"/> ALP <input type="checkbox"/> GGT <input type="checkbox"/> Bilirubin <input type="checkbox"/> Bilirubin (reuben) <input type="checkbox"/> Total Protein <input type="checkbox"/> Albumin <input type="checkbox"/> Calcium <input type="checkbox"/> Ionized Calcium (Gold top, apun, unspun) <input type="checkbox"/> Phosphorus <input type="checkbox"/> Magnesium <input type="checkbox"/> Lipase <input type="checkbox"/> Uric Acid <input type="checkbox"/> CRP <input type="checkbox"/> Osmolality: Serum <input type="checkbox"/> Osmolality: Urine <input type="checkbox"/> Osmolar Gap <input type="checkbox"/> Lactate (Lactic Acid) (On-Site Only) <input type="checkbox"/> FFE (Fetal Fibronectin) (On-Site Only) <input type="checkbox"/> Vancomycin trough <input type="checkbox"/> Gentamicin D1 trough <input type="checkbox"/> Peak <input type="checkbox"/> Random		BLOOD GASES (On-Site Only) <input type="checkbox"/> Cord Arterial pH <input type="checkbox"/> Cord Venous pH <input type="checkbox"/> Arterial (collected by physician) <input type="checkbox"/> Venous <input type="checkbox"/> Capillary CARDIAC MARKERS <input type="checkbox"/> Troponin PREGNANCY TEST <input type="checkbox"/> Preg Test (Pos or Neg) Urine <input type="checkbox"/> Preg Test (Pos or Neg) Serum <input type="checkbox"/> Quantitative (Total HUGO) BODY FLUIDS (On-Site Only) <input type="checkbox"/> CSF <input type="checkbox"/> Cell Count <input type="checkbox"/> Glucose (CSF only) <input type="checkbox"/> Protein (CSF only)	
TRANSFUSION MEDICINE <input type="checkbox"/> Routine <input type="checkbox"/> Stat <input type="checkbox"/> Prenatal <input type="checkbox"/> 1st Visit <input type="checkbox"/> 2nd Visit <input type="checkbox"/> 28 Week <input type="checkbox"/> Other Estimated Date of Confinement: _____ <input type="checkbox"/> Win Rho <input type="checkbox"/> Albumin, dosage <input type="checkbox"/> RBC, dosage <input type="checkbox"/> ABO and Rh Type <input type="checkbox"/> Antibody Screen <input type="checkbox"/> Direct Coombs <input type="checkbox"/> Cross Match (On-Site Only) <input type="checkbox"/> # of units <input type="checkbox"/> Reason for transfusion: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> # of Previous Pregnancies: _____		COAGULATION Is patient on anti-coagulant therapy? <input type="checkbox"/> Yes, specify: _____ <input type="checkbox"/> No <input type="checkbox"/> PT (INR) <input type="checkbox"/> APTT <input type="checkbox"/> D-DIMER <input type="checkbox"/> Anti-XA SEMI-FLUID <input type="checkbox"/> Fertility <input type="checkbox"/> Post Vagotomy <input type="checkbox"/> Date and Time Collected: _____	
URINE CHEMISTRY <input type="checkbox"/> Volume: _____ (Required) <input type="checkbox"/> Creatinine Clearance (Requires Serum Sample) <input type="checkbox"/> Urine Protein <input type="checkbox"/> Random <input type="checkbox"/> 24hr <input type="checkbox"/> Urine Creatinine <input type="checkbox"/> Random <input type="checkbox"/> 24 hr <input type="checkbox"/> Urine Sodium <input type="checkbox"/> Random <input type="checkbox"/> 24 hr <input type="checkbox"/> Urine Potassium <input type="checkbox"/> Random <input type="checkbox"/> 24 hr		URINALYSIS <input type="checkbox"/> Occult Blood (Shed) <input type="checkbox"/> Routine Urinalysis (On-Site Only) <input type="checkbox"/> Date and Time Collected: _____	

AP-29 Revised: Feb 8/05; Nov 06; Nov 09; Apr 13; Sept 15; Jan 14; Sept 14; Sept 15; Feb 16

CONTROLLED DOCUMENT. Online copies of this document are current. Any other copies must not be used as definitive references.

Sioux Lookout Meno-Ya-Win – General Requisition

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14 of 52

14

Prenatal: YES NO	
CHEMISTRY	
<input type="checkbox"/>	Glucose, Fasting
<input type="checkbox"/>	Glucose, random
<input type="checkbox"/>	Glucose, 2 hr pc
<input type="checkbox"/>	Glucose, 1 hr post 50g
<input type="checkbox"/>	Glucose, 75g GTT Pregnancy (Fstg, 1hr, 2hr)
<input type="checkbox"/>	Glucose, 75g GTT (Fst, 2hr)
<input type="checkbox"/>	BUN/Urea
<input type="checkbox"/>	Creatinine (eGFR)
<input type="checkbox"/>	Lytes
<input type="checkbox"/>	Sodium
<input type="checkbox"/>	Potassium
<input type="checkbox"/>	Chloride
<input type="checkbox"/>	Carbon Dioxide/Bicarb
<input type="checkbox"/>	CK
<input type="checkbox"/>	LDH
<input type="checkbox"/>	AST
<input type="checkbox"/>	ALT
<input type="checkbox"/>	Alk Phos
<input type="checkbox"/>	GGT
<input type="checkbox"/>	Bilirubin
<input type="checkbox"/>	Bilirubin (newborn)
<input type="checkbox"/>	Total Protein
<input type="checkbox"/>	Albumin
<input type="checkbox"/>	Calcium
<input type="checkbox"/>	Ionized Calcium (Gold top, spun, unopened)
<input type="checkbox"/>	Phosphorus
<input type="checkbox"/>	Magnesium
<input type="checkbox"/>	Lipase
<input type="checkbox"/>	Uric Acid
<input type="checkbox"/>	CRP
<input type="checkbox"/>	Osmolality: Serum
<input type="checkbox"/>	Osmolality: Urine
<input type="checkbox"/>	Osmolar Gap
<input type="checkbox"/>	Lactate (Lactic Acid) (On-Site Only)
<input type="checkbox"/>	FEF (Fetal Fibronectin) (On-Site Only)
<input type="checkbox"/>	Vancomycin trough
<input type="checkbox"/>	Gentamicin <input type="checkbox"/> Trough <input type="checkbox"/> Peak <input type="checkbox"/> Random

HEMATOLOGY	
<input type="checkbox"/>	CBC/DIFF (No DIFF if specimen > 24hrs)
<input type="checkbox"/>	RETIC

COAGULATION	
Is patient on anti-coagulant therapy?	
<input type="checkbox"/>	Yes, specify _____
<input type="checkbox"/>	No
<input type="checkbox"/>	PT/INR
<input type="checkbox"/>	APTT
<input type="checkbox"/>	D-DIMER
<input type="checkbox"/>	Anti-XA

Meno-Ya-Win Requisition

- Tests done in Sioux Lookout
- Run in-hospital
- Cheaper than sending to Life Labs or provincial labs

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15 of 52

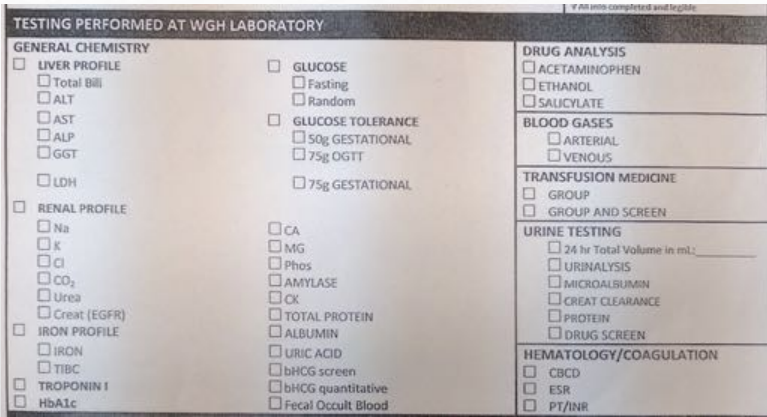
15

WEENEEBAYKO GENERAL HOSPITAL LABORATORY REQUISITION		LAST NAME: FIRST NAME:	
ROUTINE <input type="checkbox"/> AMP <input type="checkbox"/> STAT <input type="checkbox"/>		DOB: CHART #:	SEX: M <input type="checkbox"/> F <input type="checkbox"/>
ADDRESS: CITY: PROVINCE: POSTAL CODE:		HOME PHONE:	
DOCTOR: DIAGNOSIS: LOCATION:		COLLECTION CHECKLIST: * Patient ID verified according to policy * Specimen for drug therapy indicated * Urine for culture and sensitivity	
COLLECTION DATE: COLLECTION TIME:		COLLECTED BY:	
TESTING PERFORMED AT WGH LABORATORY			
GENERAL CHEMISTRY <input type="checkbox"/> Liver Profile <input type="checkbox"/> Total Bil <input type="checkbox"/> ALT <input type="checkbox"/> AST <input type="checkbox"/> ALP <input type="checkbox"/> GGT <input type="checkbox"/> LDH <input type="checkbox"/> Renal Profile <input type="checkbox"/> Na <input type="checkbox"/> K <input type="checkbox"/> Cl <input type="checkbox"/> CO ₂ <input type="checkbox"/> Urea <input type="checkbox"/> Creat (eGFR) <input type="checkbox"/> Iron Profile <input type="checkbox"/> Iron <input type="checkbox"/> TIBC <input type="checkbox"/> Transferrin % <input type="checkbox"/> Ferritin <input type="checkbox"/> Other Tests Not Listed:		<input type="checkbox"/> Glucose <input type="checkbox"/> Fasting <input type="checkbox"/> Random <input type="checkbox"/> Glucose Tolerance <input type="checkbox"/> 15g Gestational <input type="checkbox"/> 75g GTT <input type="checkbox"/> 75g Gestational <input type="checkbox"/> CA <input type="checkbox"/> Mg <input type="checkbox"/> Phos <input type="checkbox"/> Amylase <input type="checkbox"/> Cr <input type="checkbox"/> Total Protein <input type="checkbox"/> Albumin <input type="checkbox"/> Uric Acid <input type="checkbox"/> BUN screen <input type="checkbox"/> BUN quantitative <input type="checkbox"/> Fasting Creat Blood	
REFERRED OUT - TIMMINS LAB <input type="checkbox"/> Lith <input type="checkbox"/> PERNITIN <input type="checkbox"/> Lipo Profile <input type="checkbox"/> Chol <input type="checkbox"/> TRIG <input type="checkbox"/> HDL <input type="checkbox"/> VIT B12 <input type="checkbox"/> FFA <input type="checkbox"/> Folate <input type="checkbox"/> RBC Folate		REFERRED OUT - LIFELABS <input type="checkbox"/> Carbamazepine <input type="checkbox"/> Disoxin <input type="checkbox"/> Lithium <input type="checkbox"/> Phenyton <input type="checkbox"/> Valproic Acid <input type="checkbox"/> Gentamicin <input type="checkbox"/> Vancomycin <input type="checkbox"/> Amikacin <input type="checkbox"/> Lipase <input type="checkbox"/> APTT <input type="checkbox"/> D-DIMER (TOP SCREEN)	
COMMENTS:		LAB USE ONLY:	

Moose Factory Weeneebayko – General Requisition

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16 of 52

16

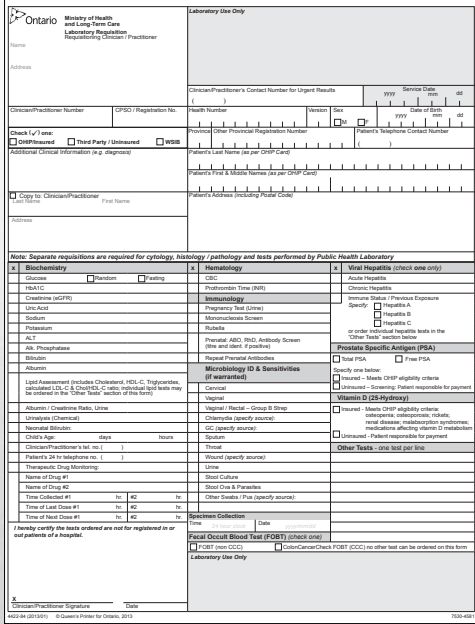


Weeneebayko Requisition

- Tests done in Moose Factory
- Run in-hospital
- Cheaper than sending to Life Labs or Provincial labs

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17 of 52

17



Ministry Requisition

- Only used for those tests not found on SL or MF req's.
- Most common: HbA1C, Ferritin, Iron studies, Vitamin B12 and Lipids/Cholesterol.
- Can also write in tests under "other" (eg. If ordered by rheumatology pre-follow up visit)

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18 of 52

18

19

20

- Provide labeled collection cup
- Collect or have client collect specimen
- Label the Urine Preservative Tube (UPT seen on the right, red top)
- Transfer urine using sterile pipette or syringe/needle up to fill window/ line
- Close and invert 3-4 times to ensure reagent mixes with urine
- **Routine urinalysis:** will be accepted up to 4 hours after time of collection
- **Urine culture:** will be accepted up to 24 hours from time of collection if refrigerated



Urine Culture & Sensitivity

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21 of 52

21

Meno-Ya-Win

- General Microbiology
- Urine
- Throat swabs
- Wound Swabs
- Vag – BV/ Yeast

• Make sure to note if you started the pt. on antibiotics and which under “comments”

#1 Meno Ya Win Way
P.O. Box 909
Sault Ste. Marie, ON
P6T 1B4
807-737-3030 x4800



MICROBIOLOGY REQUISITION

PATIENT LOCATION:

- ☐ ER ☐ North Pod ☐ South Pod
☐ Maternity ☐ Prenatal Clinic
☐ Nursing Station
☐ Appt Clinic – PHCU ☐ HAC
☐ Ext Care ☐ Com Care
☐ Other _____

Gender: Male ☐ Female ☐

Prenatal: YES ☐ NO ☐

Antibiotic Therapy: Y / N

If “Yes”, please specify:

Date Collected:

Time Collected:

Collected by:

Addressograph

Physician:

Clinical Diagnosis:

Type of Specimen (Source):

- ☐ Throat ☐ Stool ☐ Vag -BV, Yeast Or Trich
☐ Blood Culture ☐ CSF ☐ Vag /Anorectal -GpB Strep
☐ Ear ☐ Nasal -MRSA ☐ Quick Strep
☐ Eye ☐ Rectal -MRSA/VRE ☐ Other _____

☐ Urine

Catheter: Y / N

If “Yes”, please specify:

☐ Wound – Site (please specify): _____

Comments:

Microbiology

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22 of 52

22

Microbiology

Tear off portion at the bottom with identifiers

MICROBIOLOGY REQUISITION for C&S
 Timmins and District Hospital
 700 Ross Ave E, Timmins, ON P4N 3P2
 Tel.: (705) 267-6326

Patient Information: (print or affix label)
 Name (Last, First): _____ Date (DD/MM/YY): _____ Time (24h): _____
 DOB (DD/MM/YY): _____ Sex (M or F): _____ Collected by: _____
 Health Card #: _____ Ordering Site/Location: _____
 Ordering Physician: _____

PLEASE NOTE: ONLY ONE SPECIMEN PER REQUISITION

BLOOD AND OTHER STERILE FLUIDS <input type="checkbox"/> Blood culture # _____ <input type="checkbox"/> CSF culture _____ <input type="checkbox"/> Dialysate fluid _____ <input type="checkbox"/> Fluid culture (specify): _____ CLINICAL HISTORY: <input type="checkbox"/> Endocarditis <input type="checkbox"/> Fever of unknown origin <input type="checkbox"/> Other (specify): _____ EYES AND EARS <input type="checkbox"/> Eye swab: <input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Eye Other (specify): _____ <input type="checkbox"/> Ear swab: <input type="checkbox"/> Left <input type="checkbox"/> Right GENITAL <input type="checkbox"/> Vaginal swab (for BV, Trichomonas, Yeast) <input type="checkbox"/> Vaginal swab (for culture) <input type="checkbox"/> Vaginal/Anorectal swab for Group B Strept (Prenatal) <input type="checkbox"/> Cervical swab (for N. gonorrhoeae) <input type="checkbox"/> Urethral swab (for N. gonorrhoeae) <input type="checkbox"/> External Genital: <input type="checkbox"/> Vulva <input type="checkbox"/> Penis <input type="checkbox"/> Other _____ <input type="checkbox"/> Other (specify): _____ URINE/STOOL <input type="checkbox"/> Urine: <input type="checkbox"/> Midstream <input type="checkbox"/> Catheter <input type="checkbox"/> Suprapubic Aspirate <input type="checkbox"/> Cystoscopy <input type="checkbox"/> Other (specify): _____ CLINICAL INFORMATION: <input type="checkbox"/> Pregnant <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Stool (faeces)	RESPIRATORY TRACT SPECIMENS <input type="checkbox"/> Sputum (expectorated) <input type="checkbox"/> ETT suction <input type="checkbox"/> Bronchial washing <input type="checkbox"/> Throat swab <input type="checkbox"/> Mouth swab <input type="checkbox"/> Oral Abscess swab <input type="checkbox"/> Nasal swab (for N. meningitidis) <input type="checkbox"/> Other (specify): _____ CLINICAL HISTORY: <input type="checkbox"/> Cystic Fibrosis <input type="checkbox"/> Other (specify): _____ SPECIFIC ORGANISM REQUESTS <input type="checkbox"/> MDRO (MSSA/VRE) Screen (only): _____ <input type="checkbox"/> USHL Screen (only): _____ <input type="checkbox"/> Naal swab (for MSSA/MRSA only) <input type="checkbox"/> Other (specify): _____ WOUND/SKIN/ABSCESS/SURGICAL SITE (specify): _____ SPECIMEN: <input type="checkbox"/> Swab <input type="checkbox"/> Aspirate <input type="checkbox"/> Tissue <input type="checkbox"/> Drainage (swab or fluid) <input type="checkbox"/> Catheter tip <input type="checkbox"/> Other (specify): _____ CLINICAL INFORMATION: <input type="checkbox"/> Abscess <input type="checkbox"/> Ulcer <input type="checkbox"/> Burn <input type="checkbox"/> Surgical <input type="checkbox"/> Superficial wound (< 1cm deep) <input type="checkbox"/> Deep wound (> 1cm deep) <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Anaerobic Culture (must be in Anaerobic Transport Media)
---	---

Microbiology

LABEL w / REQ# 005844
 PT Name: _____ DOB: _____
LABEL w / REQ# 005844
 PT Name: _____ DOB: _____
LABEL w / REQ# 005844
 PT Name: _____ DOB: _____
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 23 of 52

23

Public Health Requisition

Public Health Ontario / Santé publique Ontario

Date received: _____ PHCL No.: _____

General Test Requisition


ALL Sections of this Form MUST be Completed

1 - Submitter Counter Code: _____ Provide Return Address: Name: _____ Address: _____ City & Province: _____ Postal Code: _____ Clinician Initial / Surname and CHSP / CPSO Number: _____ Tel: _____ Fax: _____	2 - Patient Information Health No.: _____ Sex: _____ Date of Birth: _____ Medical Record No.: _____ Patient's Last Name (per CHSP card): _____ First Name (per CHSP card): _____ Patient Address: _____ Postal Code: _____ Patient Phone No.: _____ Submitter Lab No.: _____ Public Health Unit Outbreak No.: _____
cc Doctor Information Name: _____ Tel: _____ Lab/Clinic Name: _____ Fax: _____ CPSO #: _____ Address: _____ Postal Code: _____	Public Health Investigator Information Name: _____ Health Unit: _____ Tel: _____ Fax: _____
3 - Test(s) Requested (Please use descriptions on reverse) Test Enter test descriptions below: _____ _____ _____ _____ _____	Hepatitis Serology Reason for test (Check (✓) only one box) <input type="checkbox"/> Immune status <input type="checkbox"/> Acute infection <input type="checkbox"/> Chronic infection Anti specific viruses (Check (✓) all that apply) <input type="checkbox"/> Hepatitis A <input type="checkbox"/> Hepatitis B <input type="checkbox"/> Hepatitis C (testing only available for acute or chronic infection, no test for asymptomatic persons) (see PHCL for details)
4 - Specimen Type and Site <input type="checkbox"/> Blood / serum <input type="checkbox"/> Saliva <input type="checkbox"/> nasopharyngeal <input type="checkbox"/> Urine <input type="checkbox"/> sputum <input type="checkbox"/> vaginal swab <input type="checkbox"/> Unfractionated <input type="checkbox"/> serum <input type="checkbox"/> BAL <input type="checkbox"/> Other: (specify) _____	Patient Setting <input type="checkbox"/> physician office/clinic <input type="checkbox"/> EIT (not admitted) <input type="checkbox"/> inpatient (ward) <input type="checkbox"/> inpatient (ICU) <input type="checkbox"/> Institution
5 - Reason for Test <input type="checkbox"/> Diagnostic <input type="checkbox"/> Immune status <input type="checkbox"/> Date collected: _____ <input type="checkbox"/> Acute illness <input type="checkbox"/> Follow-up <input type="checkbox"/> Date: _____ <input type="checkbox"/> Chronic condition <input type="checkbox"/> Date: _____ <input type="checkbox"/> Immunocompromised <input type="checkbox"/> Date: _____ <input type="checkbox"/> Post-vaccination <input type="checkbox"/> Date: _____ <input type="checkbox"/> Other: (specify) _____	Clinical Information <input type="checkbox"/> Fever <input type="checkbox"/> splenomegaly <input type="checkbox"/> respiratory symptoms <input type="checkbox"/> STI <input type="checkbox"/> headache / stiff neck <input type="checkbox"/> vesicular rash <input type="checkbox"/> pregnant <input type="checkbox"/> encephalitis / meningitis <input type="checkbox"/> maculopapular rash <input type="checkbox"/> jaundice <input type="checkbox"/> other: (specify) _____ <input type="checkbox"/> Influenza high risk - (specify) _____ <input type="checkbox"/> Recent travel - (specify location) _____

Public Health Labs

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 24 of 52

24



- STI Tests
- Collection (urine vs. swabs)
- non-GU sites
- Requisitions
- Interpretation/ Contact tracing
- Treatment
- Follow up

STI Testing

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27 of 52

27

- Ensure that you have labeled specimen
- Ensure that you have the correct requisitions
- Ensure specimen is placed in the correct area
- Faxing requisitions to laboratory – helps with staffing planning at the lab.
- Requisition placed in area outside of bag
- Recording specimen on shipping sheet

“Unlabeled specimens submitted without an accompanying laboratory requisition will be rejected!”

Sending Specimens

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28 of 52

28

- Specimen volume inadequate
- Specimens stored improperly
- Specimens not properly mixed
- Grossly haemolysed
- Excessive delay
- Leaking/contaminated
- Improper client preparation
- Unsuitable specimen for type of request



Common Problems/ Reasons for Rejection

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29 of 52

29

Smith, Jane
DOB: 09/23/1969
Band: 2040556101
Date: 10 April 2016 09:30
Test: Serum VR

- 3 identifiers
- Today's date/ time
- Identify test or specimen
- Your initials

Labeling Specimens

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30 of 52

30

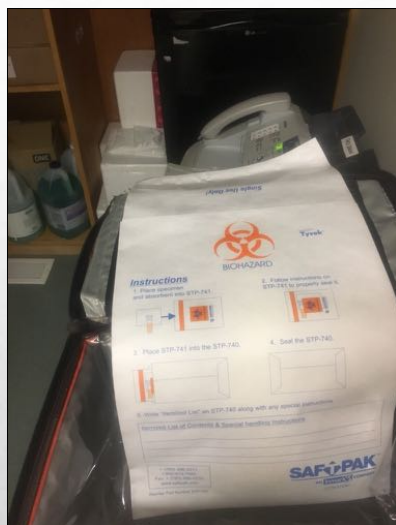


- FAX one requisition per patient to the lab (helps with staffing planning)
- Tally the number of specimen tubes you have (blood/ serum/ urine/ etc.)
- Record number on transport tally sheets x2
- Ensure absorbent sheet in each bag.
- Combine all tubes from the same requisition into one bag, fold req with patient identifiers visible, and place in outside pocket.
- If specimen must be kept frozen (eg. INR), complete a separate requisition for this test and package separately
- Place specimens into Tyvec envelope for transport.

Bagging Specimens

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31 of 52

31



1. All sealed bagged specimens go into the Saf-T-Pak (leak proof) envelope, then into the lab cooler bag.

Transportation of Lab Specimens

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32 of 52

32

The image shows two identical 'Tally Sheet for Lab Bag' forms. Each form has a header section with 'Health Facility' (SARIGO LAKE), 'Delivery Name' (Albert McKay), and 'Phone Number' (809-595-2500). Below the header is a table with columns: 'Date', 'Type of Specimen', 'Quantity of Specimen', 'Container Labelled', 'Date of Collection', and 'Time of Collection'. The table is filled with handwritten entries: 'Serum', 'urine', 'Swabs', and 'Blood'.

2. Tally sheet for lab bag (2 copies per bag)
3. Make sure to tally each serum/ blood tube, urine container and swab in duplicate.

Transportation of Lab Specimens

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33 of 52

33

4. One copy of tally sheet goes inside the lab cooler, the second copy goes in the pocket on the outside of the lab bag.
5. Sealed white envelope goes into the lab bag, and zippers get zip-tied shut.



Transportation of Lab Specimens

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34 of 52

34

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35 of 52

35



Point-of-Care Collection Procedures

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36 of 52

36

- Rapid Strep Throat Swabs
- i-Stat machine*
- Capillary Blood Glucose
- Urine Analysis
- Pregnancy Testing
- Hemoglobin
- Urine Drug Screening*
- H. Pylori
- Troponin*



*require a consult and order from MD/NP.

Point of Care Tests

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37 of 52

37

- Lancet – fingerpoke
- Use gravity to your advantage
- Wipe first drop of blood
- First drop for glucometer
- Second drop for HemoCue



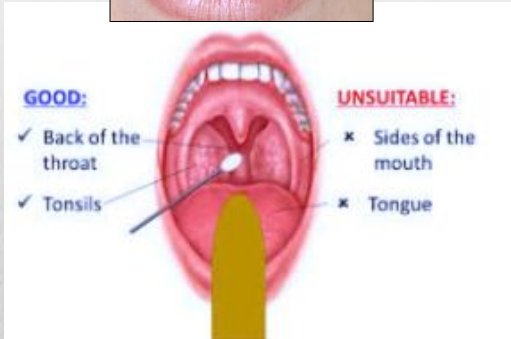

Point of Care Testing - HemoCue, Glucometer

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38 of 52

38

- Test for the presence of Group A Streptococcal Pyrogenes
- Based on Clinical Findings* and MD/ NP consult:
 - Sore Throat
 - Fever/ Malaise
 - Exudate on Tonsils
 - Absence of Cough
- Swab to obtain sample of exudate from both tonsils
- **IF NEGATIVE:** send a standard charcoal swab for C&S to the lab for confirmation.

* Can include, but not limited to these findings



Point of Care Testing - Rapid Strep

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39

- Found in most Nursing Stations in Northern Ontario
- Requires additional Continuing Education training / certification
- **MD Order required for testing**
- Venous draw using Green Heparinized tube
- Cartridges are refrigerated
- Quality Control testing needs to be done daily



Point of Care Testing - iStat

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40 of 52

40

- Urinalysis
- β hCG (pregnancy)
- Drug Screen

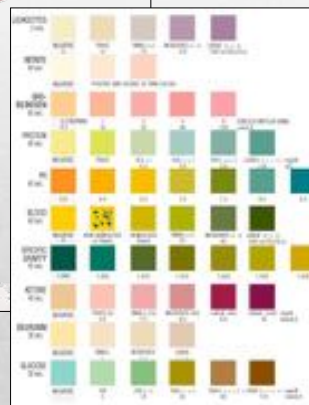


- **ENSURE:** sterile specimen is prepared in C&S container either by pouring, or using a sterile syringe, prior to using dipstick or pipette for POC testing to prevent contamination

Urine Point-of-Care (dipstick)

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41 of 52

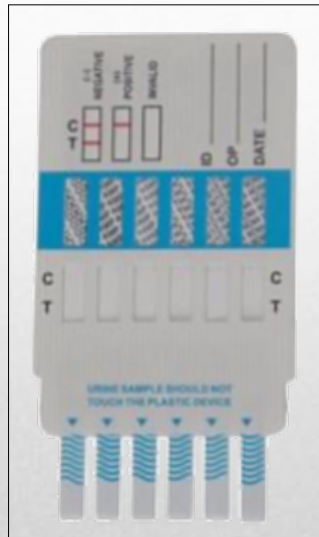
41



Urinalysis (dipstick)

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42 of 52

42



- **MUST have a MD/NP Order for Urine Drug Screen**
- Often part of community-based Suboxone program
- Tests for several substances:
 - Cocaine
 - Morphine
 - Bupropion
 - Benzodiazepines
 - Oxycodone
- Be aware that test results read opposite to a urine pregnancy test:
 - ONE line is positive
 - TWO lines is negative.

Urine Drug Screen

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43 of 52

43

- Initial Prenatal Tests
 - Complete Blood Count (CBC) – including Hemoglobin, MCV (Purple Top)
 - Screens for Anemia, thalassemia
 - ABO/ Rh(D) – blood group and screen (Purple Top)
 - Rubella (German measles) (check MMR titre) - positive screen warrants additional testing (Red Top)
 - Mother may require additional Immunoprophylaxis postpartum
 - Hepatitis (HBsAg), Syphilis (VDRL) (Red Top)
 - HIV (consent needed) (Red Top)
 - Chlamydia and Gonorrhea – rescreen as needed (Urine or Swab)
 - Urine C&S – Screen for asymptomatic bacteriuria (ABU) (Urine)
 - Treat Group B Strep bacteriuria, and treat as GBS positive when in labour



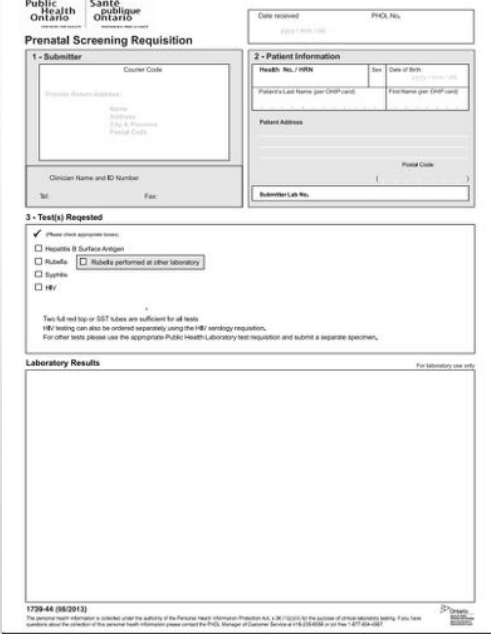
Routine Prenatal Testing at every visit:

- Fingerpoke glucose
- HemoCue
- Urine Dipstick

Prenatal Blood Work – Initial Prenatal visit

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44 of 52

44



- Two full Red top or SST tubes are sufficient for all public health tests
- HIV Testing ordered on a separate requisition (consent)
- Other PHL tests on a separate requisition

Prenatal Blood Work – Public Health Labs

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45 of 52


45

Follow up Testing

- Oral Glucose Tolerance Test (20-24wks)
- Group and Screen (28 wks)

Additional Tests with MD/NP Consultation:

- Hepatitis C
- TST
- Repeat HIV
- Varicella Titre etc.



Prenatal Blood Work – Additional Prenatal Screening

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46 of 52

46

50 Gram Load

- Non-fasting
- Drink 50g solution
- Time x 1 hour
- Ensure patient stays in clinic
- Venous sample



75 Gram Load

- Fasting sample
- Drink 75g solution
- Time x 1 and 2 hours
- Ensure patient stays in clinic
- Venous sample at 1 hour post drink and 2 hours post drink.

Oral Glucose Tolerance Testing

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47 of 52

47

- **Integrated Prenatal Screening (IPS)**
 - First Trimester (11-13+6/7wks)
- **Maternal Serum Screening (MSS)**
 - Second Trimester (15-20+6/7wks)
 - Trisomy 13
 - Down Syndrome
 - Neural Tube Defects



- **IPS and MSS testing require informed consent, and consultation with MD/NP.**

The Genetics



Education Project

Prenatal Blood Work – Additional Prenatal Screening

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48 of 52

48

- Prenatal screening for Down syndrome, Trisomy 18 and Open Neural Tube Defects
- Nuchal Translucency (NT) ultrasound must be booked by referring healthcare provider

Prenatal Genetic Screening

NORTH YORK GENERAL
Making a World of Difference

PRENATAL SCREENING for Down syndrome, Trisomy 18 and Open Neural Tube Defects
NT ultrasound must be booked by referring healthcare provider

External Blood Collection Centres: Send sample & requisition to: MGS Laboratory, 4001 Leslie Street, 3rd Floor Southeast, Toronto, ON M2K 1E1. Fax: (416) 756-4108

Accurate information is necessary for a valid interpretation.

• Patients with a family history of open neural tube defects or Down syndrome should be referred to a genetics centre.
• Prenatal screening requires patient education and should proceed only with the informed choice of the patient.

Test Requested (choose one only):

☐ Integrated Prenatal Screen (NT required)
☐ Part 1 (11w - 13w6d) [CRL 41-84 mm or BPD (25mm)]
☐ Part 2 (15w - 18w6d) Time for 2nd sample

☐ Serum Integrated Prenatal Screen (No NT)
☐ Part 1 (11w - 13w6d) [CRL 41-84 mm or BPD (25mm)]
☐ Part 2 (15w - 18w6d) Time for 2nd sample

☐ First Trimester Screen (11w - 13w6d)
[CRL 41-84 mm or BPD (25mm)]

☐ Maternal Serum Screen (15w - 20w6d)
☐ Maternal Serum AFP only (15w - 20w6d)

Ultrasound (U/S) Information Sonographer or ordering provider to complete. Identify U/S operator code only if doing IPS or FTS.

Singleton/Twin A: CRL: ☐ on mm BPD: ☐ mm NT: ☐ mm
U/S Date: Open-Rump Length: ☐ mm

Twin B: ☐ dichorionic; ☐ monochorionic; ☐ uncertain CRL: ☐ on mm BPD: ☐ mm NT: ☐ mm
Open-Rump Length: ☐ mm

U/S Operator Code: Initials: U/S site: U/S phone #:

Ordering Provider:
Address:
Phone: () **FAX:** ()
Signature: **Bitting #:**

Additional Report To:
Address:
Phone: () **FAX:** ()

For Collection Centres Use Only
Send 2 mL of serum to the laboratory in a gel barrier tube (serum separator tube preferred). Do not anticoagulate or freeze blood. Centrifuge. Send primary tube to laboratory if there is a gel barrier, otherwise aliquot.

Collection Centre: **Specimen Date:**

Phone #: (416) 756-4108

www.nygh.on.ca (Areas of Care > Genetics > Laboratories)

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49 of 52

49

Sexual Assault Nurse Examiners are recommended for adult cases, and mandatory for paediatric cases. Consult MD/ NP for a med or schedevac.

Timeline for collecting Samples: Can be collected up to 12 days post-assault

- All relevant samples: up to 24 hours
- All relevant samples, except prepubertal/ oral: 24-48 hours
- **Do Not collect steps 3, 4, 7, and 8 if patient has showered or bathed**



Sexual Assault Evidence Kit

- Patient must give consent
- Medical care such as STI/ Pregnancy prophylaxis must be documented in the patient chart
- Consent to release evidence must be signed by both the patient/guardian, and the police officer receiving the completed kit.
- Once the kit is opened, never leave it unattended.
- Once complete, close and secure with SAEK seal.

Review Sexual Assault Policy on LMS

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50 of 52

50

Sexual Assault - Paediatric Considerations



- ALL paediatric sexual assault cases must be sent by Medevac to the nearest sexual assault assessment centre
- Parent/ guardian or Child Protective Services must provide consent.

Sexual Assault Evidence Kit – Paediatric Considerations

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51 of 52

51



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52 of 52

52