

**Nova Scotia Health Authority - Central Zone**  
**Department of Pathology and Laboratory Medicine**  
**Blood Transfusion, Clinical Chemistry and Hematology**  
**TURN-AROUND TIMES**

**KEY:** m-minutes h-hours d-days w-weeks

Date: December 7, 2016 Doc# 19231

From Collection to Reporting							
Order Priority			STAT	Urgent	Routine		
Division	Sub- Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province
<b>Blood Transfusion Service</b>							
	<b>Routine</b>	ABO and Rh typing	45 m	√	√	24 h	
		ABO,Rh typing; antibody screen and crossmatch	√	√	√	24 h	
		Crossmatch (type and screen previously completed)	15 m	√	√	24 h	
	<b>Specialized testing</b>	Antibody investigation		4 h		2 d	
		Cold Agglutinins				14 d	
		Thermal amplitude				28 d	
		Transfusion Reaction Investigation				4 d	
	<b>Issuing</b>	ABO unmatched blood	15 m				
		Plasma- thawed and issued	35 m	90 m			
		Platelet issue	15 m	90 m			
		Cryoprecipitate- thawed, pooled and issued	35 m	90 m			
		Manufactured product issue	30 m	90 m			
Note: Transportation of Blood Components from Halifax Infirmary to Victoria General site can take up to 1 hour.							
<b>Esoteric Chemistry</b>	<b>Toxicology</b>	10,11 Epoxide					Yes
		Amphetamine Screen Urine				3d	
		Barbiturate Screen					Yes
		Benzodiazepine Screen Urine				3d	

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Division	Sub-Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province
		Caffeine					Yes
		Cannabinoids Screen Urine				3 d	
		Catecholamines Urine				7 d	
		Cyclosporine A				24 hrs	
		Cocaine Screen Urine				3 d	
		Ethanol Screen Urine				3 d	
		Ethylene Glycol + Glycolic Acid	√	√	√		
		Mycophenolate				3 d	
		Nortriptyline					Yes
		Opiate Screen Urine				3 d	
		Phencyclidine Screen Urine				3 d	
		Phenobarbital					
		Tacrolimus				24 hrs	
		Sirolimus				24 hrs	
		Thiocyanate					Yes
		Tricyclic Screen					Yes
		Amitriptyline					Yes
		Clobazam				7 d	
		Clomipramine					Yes
		Clozapine				7 d	
		Copper					Yes
		Copper Liver					Yes
		Desipramine					Yes
		Doxepin					Yes
		Fluoxetine					Yes
		Gabapentin					Yes
		Iron Liver					Yes
		Lamotrigine				7 d	
		Lead					Yes
		Maprotiline					Yes
		Imipramine					Yes
		Paroxetine					Yes
		Protriptyline					Yes

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Division	Sub-Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province	
		Trimipramine					Yes	
Esoteric Hematology	Coagulation	Antithrombin III				7 d		
		Anti Xa				1 d		
		APCR (Activated Protein C Resistance)					4 w	
		Factor VIII					7 d	
		Factor IX					7 d	
		Factor X					7 d	
		Factor XI					7 d	
		Factor XII					7 d	
		Factor VIII Inhibitor					7 d	
		Factor IX Inhibitor					7 d	
		Factor II					7 d	
		HIT					7 d	
		LAC					7 d	
		PFA				√		
		Platelet Aggregation					7 d	
		Protein C					7 d	
		Protein S					7 d	
		vWF Agtigen					7 d	
		vWF Activity					7 d	
		Microscopy	Malarial Parasites				√	
Manual Differential					√			
Body Fluid Differential					√			
Bone Marrow Report					√	5 d		
CSF Differential			75 m	√	√			
Synovial Fluid Differential					√			
Eosinophil Nasal Smear					√			
Eosinophil Urine Smear					√			
Urine Hemosiderin					√			
Flow Cytometry	CD34 Harvest (PBSC)					√		
	CD34 Pre Count (Blood)			√				
	Leukemia/Lymphoma screens			24 hours	5 days			

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Division	Sub-Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province
		Immunodeficiency testing			5 days		
		Paroxysmal Nocturnal Hemoglobinuria testing			5 days		
		T Cell Subset			2 days		
	<b>Immunology</b>	C1 Inact				14 d	
		Cryoglobulin				7 d	
		Cryoglobulin Immunofixation				30 d	
		Hgb H			√		
		Hemoglobin Electrophoresis				14 d	
		Immunofixation				14 d	
		Protein Electrophoresis				14 d	
		Serum Free Light Chains				7 d	
		Urine Electrophoresis				14 d	
		Urine Immunofixation				14 d	
	<b>Molecular Diagnostics</b>						
	Hematology	FLT3/ NPM1				2 w	
		Inversion 16 or CBFβ-MYH11 gene fusion detection				2 w	
		JAK2V617F gene point mutation detection				2 w	
		Monitoring for residual host hematopoiesis (relapse) after bone marrow transplant				2 w	
		Rearrangement detection in the IgH gene of B-lymphocytes				2 w	
		Rearrangement detection in the T-cell receptor γ chain gene of T-lymphocytes				2 w	
		T(11;14), Bcl-1-IGH gene fusion detection				2 w	
		T(14;18), Bcl-2-IGH gene fusion detection				2 w	
		T(2;5), ALK-NPM gene fusion detection				2 w	
		T(9;22), BCR/abl gene fusion detection				2 w	

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		T(15;17) PML-RAR $\alpha$ gene fusion detection				2 w	
		T(8;21), AML1-ETO gene fusion detection				2 w	
		T(4;11), AF4-MLL gene fusion detection				2 w	
		CALR- Calreticulin mutation testing				2 w	
		MLPA for CLL				4 w	
	Solid Tumor	KRAS/ NRAS mutation testing				Reported within 2 weeks of receipt of specimen.	
		BRAF mutation testing				Reported within 2 weeks of receipt of specimen.	
		Microsatellite instability testing- screening for Lynch Syndrome				Reported within 3 weeks of receipt of specimen.	
		Lung cancer mutation testing				Reported within 2 weeks of receipt of specimen.	
		Ewing's and synovial sarcoma				Reported within 2 weeks of receipt of specimen.	

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Division	Sub- Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province
		ALK FISH				Reported within 2 weeks of receipt of specimen.	
		HER2 FISH				Reported within 3 weeks of receipt of specimen.	
	Inherited mutations	FV Leiden mutation detection				2 w	
		Prothrombin gene mutation detection				2 w	
		Acute intermittent porphyria mutation testing				2 w	
		MTHFR mutation testing				2 w	
		Hereditary hemochromatosis				2 w	
	HLA	HLA Typing (Multi Organ/Bone Marrow Donor and Recipients)				Reported within 2 weeks of receipt of specimen. Testing requiring immediate attention will be conducted within 5 business days, upon approval of the Medical Director.	
		HLA Typing for Auto immune Disease Association				Reported within 4 weeks of receipt of specimen with the exception of HLA-B*57:01 which is reported within 2 weeks of receipt of specimen.	
		HLA Antibody Identification				Reported within 2 weeks of receipt of specimen. Testing requiring immediate attention will be conducted within 5 business days, upon approval of the Medical Director.	
		HLA Crossmatch				Reported within 2 weeks of receipt of specimen.	

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Division	Sub-Division	TEST	1 hr	3 hr Urgent/ Discharge	8 hrs	Batch testing	Referred Out of Province
<b>Core Lab</b>							
	<b>Routine Chem</b>	A1C			√		
		AAT			√		
		Acetaminophen	√	√	√		
		Adrenocorticotrophic Hormone				7 d	
		Albumin		√	√		
		Albumin Globulin Ratio		√	√		
		Alcohol Level	√	√	√		
		Alkaline Phosphatase		√	√		
		Alpha Fetoprotein Tumor Marker			√		
		ALT		√	√		
		Ammonia Level	√	2 h			
		Amylase	√	√	√		
		Amylase Urine		√	√		
		Androstenedione				7 d	
		Angiotensin Converting Enzyme				7 d	
		Antithyroid Peroxidase Ab			√		
		ASOT			√		
		AST		√	√		
		Beta 2 Microglobulin				7 d	
		Beta hCG Qualitative or Quantitative	√	√	√		
		Bilirubin Direct, Indirect, Total		√	√		
		Blood Gases	30 m				
		C3C4			√		
		Calcitonin				7 d	
		Calcium	√	√	√		
		Calcium Level 24 Hour Urine			√		
		Calcium Level Ionized	30 m	√	√		
		Cancer Antigen 125			√		
		Cancer Antigen 19-9			√		
		Carbamazepine	√	√	√		
		Carbohydrate Antigen 15-3			√		
		Carboxyhemoglobin Level	30 m	√	√		

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		Carcinoembryonic Antigen			√		
		Ceruloplasmin			√		
		Chloride	√	√	√		
		Chloride Level 24 Hour Urine			√		
		Cholesterol, HDL, LDL		√	√		
		Cholinesterase		√	√		
		Citrate Level 24 Hour Urine				30 d	
		Cortisol			√		
		Cortisol 24 Hour Urine			√		
		C-Peptide				7 d	
		Creat Clearance 24 Hr Urine			√		
		Creatine Kinase	√	√	√		
		Creatinine	√	√	√		
		Creatinine 24 Hour Urine			√		
		CRP			√		
		Crystal Exam Body Fluid		√	√		
		Crystals: Synovial Fluid	√	√	√		
		Dehydroepiandrosterone Sulfate			√		
		Digoxin	√	√	√		
		eGFR		√	√		
		Electrolyte Panel	√	√	√		
		Erythropoietin Level				7 d	
		Estradiol			√		
		Ferritin			√		
		Folate			√		
		Follicle Stimulating Hormone			√		
		Gastrin				7 d	
		Gentamycin		√	√		
		GGT		√	√		
		Glucose (CSF)	√	√	√		
		Glucose (including Oral GTT)	√	√	√		
		Growth Hormone			√		
		Haptoglobin			√		



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		IgE			√		
		Immunoglobins (IgG, IgA, LgM)			√		
		Insulin			√		
		Insulin Like Growth Factor-1				7 d	
		Iron		√	√		
		Ketones	√	√	√		
		Lactate	30 m	√	√		
		Lactate Dehydrogenase		√	√		
		Lipase	√	√	√		
		Lithium	√	√	√		
		Luteinizing Hormone			√		
		Magnesium	√	√	√		
		Magnesium 24 Hour Urine			√		
		Methemoglobin Level	30 m	√	√		
		Methotrexate	√	√	√		
		Microalbumin		√	√		
		N-terminal pro Brain Natriuretic Peptide	√	√	√		
		Occult Blood Stool				4 d	
		Osmolality	√	√	√		
		Osmolality Urine	√	√	√		
		Osmolality Urine 24 Hour			√		
		Oxalate, Urine				30 d	
		Parathyroid Hormone Intact		√	√		
		pH 24 Hour Urine			√		
		pH Urine	√	√	√		
		Phenobarbital	√	√	√		
		Phenytoin	√	√	√		
		Phosphorus		√	√		
		Phosphorus, 24 Hour Urine			√		
		Potassium	√	√	√		
		Potassium, 24 Hour Urine			√		
		Prealbumin			√		
		Progesterone			√		

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		Prolactin			√		
		Prostate Specific Antigen			√		
		Prostate Specific Antigen Free			√		
		Red Cell Folate				7 d	
		RFQ			√		
		Salicylate	√	√	√		
		SHBG			√		
		Sodium	√	√	√		
		Sodium 24 Hour Urine			√		
		Specific Gravity 24 Hour Urine			√		
		Specific Gravity Body Fluid		√	√		
		Specific Gravity Urine	√	√	√		
		T3 Free			√		
		Testosterone Level			√		
		Theophylline	√	√	√		
		Thyroglobulin			√		
		Thyroglobulin Antibody			√		
		Thyroid Stimulating Hormone			√		
		Thyroxine Free			√		
		Tobramycin		√	√		
		Total Protein (CSF)	√	√	√		
		Total Protein (plasma)		√	√		
		Total Protein (urine)		√	√		
		Total Protein to creatinine Ratio Urine		√	√		
		Transferrin			√		
		Triglyceride		√	√		
		Troponin-T	√	√	√		
		Urea	√	√	√		
		Urea 24 Hour Urine			√		
		Uric Acid (Plasma)		√	√		
		Uric Acid (Urine)			√		
		Urinalysis	√	√	√		
		Valproic Acid	√	√	√		

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		Vancomycin		√	√		
		Vitamin B12 Level			√		
		Vitamin D Level			√		
	Routine Hem	CBC Auto Diff	75 m	√	√		
		Cell Count on Body Fluids		√	√		
		Cell Count on Synovial Fluid		√	√		
		Citrate for platelets			√		
		CSF Count	75 m	√	√		
		CSF Xanthochromia	75 m	√	√		
		D-Dimer	90 m	√	√		
		Eosinophil Count			√		
		ESR		√	√		
		Fibrinogen	90 m	√	√		
		Heinz Bodies			√		
		INR (Point of Care)			√		
		INR (PT)	90 m	√	√		
		Malarial Parasites		√	√		
		Plasma Hemoglobin Quantitative		√	√		
		PTT	90 m	√	√		
		Reticulocte Count		√	√		
		Sickle Cell Screen		√	√		
		Thrombin Time	90 m	√	√		