

IMMUNOLOGY DIVISION:

Serology:

-- RPR: Reactive in mother's serum sent from Labor & Delivery

-- VDRL: Reactive CSF

DRUG ASSAY LAB:

	<u>OVER</u>
Acetaminophen	50 mg/L
Alcohols	
Ethanol ³	300 mg/dL
Isopropanol	Any detected
Methanol	Any detected
Amobarbital	10 mg/L
Butalbital	10 mg/L
Carbamazepine	15 mg/L
Cyclosporine	1000 ng/mL
Digoxin	2.5 ng/mL
Lidocaine, serum	10 mg/L
Lidocaine, epidural	4 mg/L
Lithium	2 mEq/L
Methotrexate	10 micro moles/L
Pentobarbital	10 mg/L
Phenobarbital	50 mg/L
Phenytoin	30 mg/L
Phenytoin, unbound	3 mg/L
Primidone	25 mg/L
Procainamide	20 mg/L
N-Acetylprocainamide	30 mg/L
Procainamide and NAPA	30 mg/L
Quinidine	7 mg/L
Salicylate	300 mg/L
Secobarbital	5 mg/L
Theophylline	30 mg/L
Total Tricyclics	500 ng/mL
Valproic acid	200 mg/L
Vancomycin	80 mg/L
Aminoglycosides	mcg/mL
Amikacin	1 hr post-dose: 35, pre-dose: 10
Gentamicin	1 hr post-dose: 10, pre-dose: 2.5
Tobramycin	1 hr post-dose: 10, pre-dose: 2.5

³Adult ED exempted and not called.

2/11/2011

HEMATOLOGY

Oncology Call Protocol

Non-Oncology Call Protocol

<u>Analyte</u>	<u>Age</u>	<u>Value</u>	<u>Inpatients1</u>	<u>Outpatients2</u>	<u>Inpatients</u>	<u>Outpatients</u>
<u>HEME-8</u>						
WBC	<2 weeks	<6000/cu mm			once/72 hrs	every time
	= /> 2 weeks	<1200			once/72 hrs	every time
	all ages	>30,000			once/72 hrs	every time
HGB	0-2 weeks	<12.0 g/dl	every time	every time	every time	every time
	2-4 weeks	<10.0	every time	every time	every time	every time
	4-8 weeks	<8.0	every time	every time	every time	every time
	>8 weeks	<6.0	every time	every time	every time	every time
	all ages	>22.0	once/week	every time	once/week	every time
HCT	all ages	<18.0%	every time	every time	every time	every time
		>60.0	once/week	every time	once/week	every time
PLTS	all ages	<30K/cu mm			once/72 hrs	every time
		<10K	once/72 hrs	every time	once/72 hrs	every time
NEUTRO #	all ages	<500/cu mm			once/72 hrs	every time
ANC	all ages	<500/cu mm			once/72 hrs	every time

1 Includes patients on WGA-5, WGB-5, WGC-5 ,WGD-5, WGB-4, CMC-8 (pediatric onc. patients may be on other ped. units)

2 Includes patients in 257, 379, 383, 393, 449, GSONC clinics

2/11/2011

Oncology Call Protocol

Non-Oncology Call Protocol

<u>Analyte</u>	<u>Age</u>	<u>Value</u>	<u>Inpatients</u> ³	<u>Outpatients</u> ⁴	<u>Inpatients</u>	<u>Outpatients</u>
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MANUAL / ELECTRONIC DIFF

BANDS	all ages	>10%			once/week	every time
BLASTS	all ages	>1.0%			once/72 hrs	every time

CSF DIFF

CSF POLY-MORPHS	all ages	>3/cu mm	every time	every time	every time	every time
CSF MONO-NUCLEARS	<2 weeks =/>2 weeks	>30/cu mm >5	every time every time	every time every time	every time every time	every time every time

COAGULATION

INR	all ages	>5.0	every time	every time	every time	every time
APTT	all ages	>79.9 sec	every time	every time	every time	every time
Anti-Xa UFH	all ages	>0.7	every time	every time	every time	every time
Heparin PF4IgG	all ages	Positive (>0.399)	every time	every time	every time	every time

URINALYSIS

KETONES	all ages	Positive	every time	every time	every time	every time
MYOGLBN	all ages	Positive	every time	every time	every time	every time
PORPHOBIL.	all ages	Positive	every time	every time	every time	every time

3 Includes patients on WGA-5, WGB-5, WGC-5, WGD-5, WGB-4, CMC-8 (pediatric onc. patients may be on other ped. units)

4 Includes patients in 257, 379, 383, 393, 449, GSONC clinics

2/11/2011

Oncology Call Protocol

Non-Oncology Call Protocol

Analyte

Age

Value

Inpatients⁵ Outpatients⁶

Inpatients Outpatients

VISCOSITY

PLASMA/
SERUM VISC.

all ages

>3.0

every time every time

every time every time

5 Includes patients on WGA-5, WGB-5, WGC-5 ,WGD-5, WGB-4, CMC-8 (pediatric onc. patients may be on other ped. units)

6 Includes patients in 257, 379, 383, 393, 449, GSONC clinics

MICROBIOLOGY:

Positive direct examinations (Gram, calcofluor, fluorochrome, KOH):

All (positive and negative) results from STAT gram stains

All positives from sterile body sites

Any body site positive for: *Legionella*, Pathogenic fungi, Pathogenic parasites, *Pneumocystis*

Antigen tests positives for: viral pathogens, cryptococcal polysaccharide (first time per patient only), *Legionella* urinary antigen, *Giardia* antigen

Positive cultures for:

Transfusion reaction blood specimens

All sterile body sites for bacteria, fungi, mycobacteria and viral pathogens

Any cultures positive for: Specific Pathogenic bacteria: including *Neisseria meningitidis*, *Salmonella*, *Shigella*, *Campylobacter*, *Vibrio*, *Yersinia*, *Aeromonas*, *Enteropathogenic E. coli*

Major Pathogenic fungi including: *Histoplasma capsulatum*, *Blastomyces dermatitidis*, *Coccidioides immitis*, *Cryptococcus neoformans*, *Paracoccidioides brasiliensis*, *Pseudallescheria boydii* (*Scedosporium apiospermum*) and *Aspergillus* spp fro BAL's

All positive molecular detection assays except BKV, HCV, HBV, RVP, Adeno, C. diff HPV or STD assays

Microbiology Critical Action Values are divided into Red and Orange Category conditions as defined in the attached table.

Microbiology Critical Action Values – Red/Orange Alerts

Testing Area	Alerting Category	Test	Red Category Conditions	Orange Category Conditions
Microbiology	All Specimens	Positive direct exams	Complete Alert within 1 hour Quellung positives, fluorochrome, DFAs Gram stains, calcofluor, KOH from critical body sites All STAT Gram stains, positive or negative	Call between 8 AM and 11 PM Calcofluor and KOH for filamentous from respiratory sites only
		Positive Sterile Body Sites	From sterile body sites for bacteria, fungi, and Malaria Mycobacterium tuberculosis	Mycobacteria other than tuberculosis and viral pathogens Positive cultures from cornea, tissue, brain, placenta and bone. Pathogenic fungi, first time per patient: Histoplasma capsulatum, Coccidioides immitis, Blastomyces dermatitidis, Paracoccidioides brasiliensis, Sporothrix scheckii, Pencillium marneffeii, Pseudoallescheria boydii, Scedosporium apiospermum and prolificans, Paecilomyces lilacinus, zygomycetes
		Antigen tests positive for organisms	Legionella urinary antigen, Strep pneumo urinary ag, cryptococcal polysaccharide first time per patient/source only	Giardia antigen STEC Cryptococcal antigen (repeat positive on same patient, same source)
		Positive cultures from non-sterile sites	Pathogenic bacteria: Bordetella pertussis Pathogenic mycobacteria: Mycobacterium tuberculosis	Pathogenic bacteria: Neisseria meningitidis from pediatric respiratory sites and adult sputum Salmonella, Shigella, Vibrio, Campylobacter, Yersinia, Aeromonas, STEC, Legionella Pathogenic parasites, Pneumocystis Mycobacteria other than tuberculosis TB susceptibilities on resistant organisms only Any source growing Cryptococcus neoformans Pathogenic fungi first time only: Histoplasma capsulatum, Blastomyces dermatitidis, Coccidioides immitis, Cryptococcus neoformans, Paracoccidioides Pseudallescheria boydii and Aspergillus spp from BAL's (first time per patient)
		Positive molecular assays		CMV qualitative, HSV, Parvo B19, Enterovirus, JC, EBV, VZV, Bordetella pertussis, CMV genotype

TRANSFUSION MEDICINE:

Evidence of an acute hemolytic transfusion reaction or a septic transfusion reaction.

Serum Creatinine Critical Action Value Algorithms:

Critical Action Values are determined by the Pathology Data System lab computer using the following algorithms:

1. No previous creatinine at Hopkins OR last previous creatinine >6 months ago at Hopkins not above the reference range AND creatinine of (See **Table 1**) or greater.

Table 1. Age Based Insertion Values for Algorithm 1

0-28 Days	1.4	mg/dL
29 Days – 24 Months	1.0	mg/dL
25 Months – 11 Years	1.1	mg/dL
12 Years – 18 Years	1.4	mg/dL
19 Years and Up	1.8	mg/dL

2. Previous creatinine ≤ 2.0 within last 6 months AND increase of more than 0.5.
3. Previous creatinine > 2.0 within last 6 months AND increase of more than 50%.

For Outpatient Locations Only:

Do not call back creatinine CAV's after 5:00 P.M. Call by 11:00 A.M. next day.

Note: At the request of unit Directors, some locations do not participate in creatinine CAV determinations. The complete list of these locations exists in the Core Lab Creatinine procedure.