

Body Fluid Job Aid for Order Entering Laboratory Testing for Brooks Nursing Units

Applicability

- Brooks Nursing and Unit Clerk Staff

Purpose

- To outline for all types of fluids that can be collected and sent to the laboratory for testing, the ordering test code(s), the testing performed and clinical information of the fluid type.

Fluid Type	Test Code(s) to Order	Testing Performed	Clinical Information
Pleural includes: Thoracentesis Pleural Effusion Pericardial includes: Pericardial Effusion Pericardiocentesis	DO NOT ORDER ENTER ANY TESTS. Call the Laboratory. <u>Other tests that can be ordered:</u> LD Cholesterol Chloride Creatinine Glucose Potassium Lipase Sodium Triglycerides Uric Acid Urea pH	<ul style="list-style-type: none"> • Fluid Protocol will be performed which includes a fluid total protein and fluid Lactate Dehydrogenase (LD). • Testing also requires also a serum total protein and LD to be performed on a blood sample within 24 hours of the fluid being collected. Lab will look for this upon receiving fluid and will order blood work to be drawn if required. • Fluid will be tested to see if it is an exudate or a transudate. • If the fluid is a transudate no further testing will be completed. 	<ul style="list-style-type: none"> • Effusions of pericardial and pleural cavities are usually divided into transudates and exudates. • Generally, transudates indicate fluid that has accumulated because of systemic disease (ex. congestive heart failure, liver cirrhosis). • Exudates are usually associated with localized disorders (ex. inflammation, malignancy, infection).
Fluid Type	Test Code(s) to Order	Testing Performed	Clinical Information

<p>Ascites includes:</p> <p>Paracentesis fluid</p> <p>Peritoneocentesis</p> <p>Peritoneal Fluid (not to be confused with Peritoneal Dialysate fluid- see below)</p>	<p>Order both FLUASC and CCASC and call Laboratory if other tests ordered from list below.</p> <p><u>Other tests that can be ordered in addition to the protocol:</u></p> <p>LD Cholesterol Chloride Creatinine Glucose Potassium Lipase Sodium Triglycerides Uric Acid Urea pH</p>	<ul style="list-style-type: none"> Ascites Fluid Protocol will be performed which includes a cell count, fluid total protein and fluid Albumin. The Serum Ascites Albumin Gradient will be calculated. Testing also requires a serum albumin to be performed on a blood sample within 24 hours of the fluid being collected. Lab will look for this upon receiving fluid and will order blood work to be drawn if required. If a differential is performed on the cell count and the absolute neutrophil count is $> 249 \times 10^6/L$ then a culture will automatically be tested on the fluid. 	<ul style="list-style-type: none"> The serum ascites albumin gradient or gap (SAAG) is a calculation used in medicine to help determine the cause of ascites. “High albumin gradient (SAAG $\geq 11g/L$) is associated with the following conditions: Cirrhosis, Alcoholic hepatitis, Heart failure, Massive hepatic metastases, Heart failure/constrictive pericarditis, Budd-Chiari syndrome, Portal vein thrombosis and Idiopathic portal fibrosis.” “Low albumin gradient (SAAG $< 11 g/L$) is associated with the following conditions: Peritoneal carcinomatosis, Peritoneal tuberculosis, Pancreatitis, Serositis and Nephrotic syndrome.”
<p>Peritoneal Dialysate</p>	<p>Random Sample –Call Lab to order cell count and culture</p> <p>Fasting Sample- Send to laboratory- Lab will enter into Meditech</p> <p>Overnight Sample- Send to laboratory- Lab will enter into Meditech</p> <p>24 Hour Sample- Send to laboratory- Lab will enter into Meditech</p>	<ul style="list-style-type: none"> Cell Count ,Culture and gram stain Creatinine, Urea, Glucose, Cell Count (if culture ordered) Creatinine, Urea, Cell Count (cell count only if culture ordered) Creatinine, Urea, Cell Count (cell count only if culture ordered) 	<ul style="list-style-type: none"> Peritoneal dialysis (PD) is a safe, cost-effective, and convenient treatment alternative to hemodialysis for many patients with end-stage renal disease (ESRD). Routinely an aliquot of the 24 hour dialysate fluid will be sent to the lab for assessment of the adequacy of the dialysis. From the used solution, urine, and blood measurements, the care team can compute a urea clearance, called Kt/V, and a creatinine clearance rate (adjusted to body surface area). The residual clearance of the kidneys is also considered. These measurements will show whether the PD prescription is adequate.

Fluid Type	Test Code(s) to Order	Testing Performed	Clinical Information
Synovial / Bursa	Order: CCSNV, CRYSNV Call Lab to order culture on fluid	<ul style="list-style-type: none"> Cell Count, Culture, and Crystals 	<ul style="list-style-type: none"> The leukocyte count is an important test for classification of an effusion as septic, inflammatory, or non-inflammatory. The leukocyte count may be used as a rough measure of the intensity of inflammation in sequential samples.
CSF	Order: CSF and CUCSF	<ul style="list-style-type: none"> Testing includes Total Protein, Glucose, Cell Count, and Culture CSF tubes should be labelled as follows unless specifically indicated differently by Physician: 	<ul style="list-style-type: none"> The most important disease to diagnose is bacterial infection of the meninges White cell counts are increased Bacterial infections are usually associated with increased neutrophils. Viral meningitis may be associated with mild to severe leukocytosis with predominant lymphocytosis.
	CSF code includes: CCCSF PROTCSF GLUCSF		
	Order VICSF - If Viral investigation required- ensure to also complete Prov. lab history form.		
	If a serial RBC is required please contact the laboratory.		
	Tube #1	Chemistry- PROTCSF (protein) and GLUCSF (glucose)	<ul style="list-style-type: none"> The most important disease to diagnose is bacterial infection of the meninges White cell counts are increased Bacterial infections are usually associated with increased neutrophils. Viral meningitis may be associated with mild to severe leukocytosis with predominant lymphocytosis.
	Tube #2	Microbiology- CUCSF (culture)	
	Tube #3	Hematology- CCCSF (cell count)	
	Tube #4	Virology/Other	
Cyst	Call Lab to order cell count on fluid	<ul style="list-style-type: none"> Cell Count 	<ul style="list-style-type: none">
Jackson Pratt Drain (JP Drain)	Order: CUWD- source- drainage	<ul style="list-style-type: none"> Culture 	<ul style="list-style-type: none"> From Bile Duct