

CELL COUNT
and
DIFFERENTIAL,
FLUID (other
than CSF)

Orderable - CDF

Turn Around Time: 4 hours

Alternate Name(s):

Body Fluid Analysis (other than CSF)

Specimen:

Eligible fluids types include: synovial, pericardial, pleural, peritoneal tap, peritoneal dialysate, peritoneal lavage.

Collection Information:

A minimum volume of 0.5 mL collected in K₂EDTA.

Reference Ranges:

Total Nucleated Cell Count:

Red Cell Count:

Appearance:

	TNC X 10 ⁹ /L	RBC X 10 ¹² /L	Appearance
Synovial	Normal: ≤ 0.2	NA	Normal:
	Group I: ≤ 3.0		yellow,
	Group II: 3.0-75		clear or
	Group IV: 0.5-200		slightly
	Group V: 0.05-10		cloudy
Pleural	Normal: < 1.0	NA	Normal:
	Exudate: ≥ 1.0		Clear, pale,
	Effusion: ≥ 10.0		yellow



Laboratory:
Core Lab



Requisition:
GENERAL LABORATORY
REQUISITION



Method of Analysis:
Total nucleated cell counts and RBC, if indicated, are performed by automated analysis on a Hematology analyzer or manual counted on a Neubauer chamber (when appropriate).

Differentials performed by microscopy.



Test Schedule:
As required

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Pericardial

Normal: < 1.0 Variable Variable

Peritoneal Lavage

Normal: < 0.1 Normal: < 0.025 Normal:

Positive: ≥ 0.5 Trauma: ≥ 0.100 Clear,
colourless

Peritoneal Tap

Normal: < 0.3 NA Normal: Clear

Positive: ≥ 0.3 pale yellow

Peritoneal Dialysate

Normal: < 0.1 NA Normal: Clear

Positive: ≥ 0.1 colourless

Differential:

Synovial < 25% neutrophils

Pleural Mononuclear Cells

Pericardial NA

Peritoneal Lavage NA

Peritoneal Tap Mononuclear Cells

Peritoneal Dialysate Mononuclear Cells

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Interpretive Comments:

Body fluids are considered to be irreplaceable specimens and are analyzed regardless of whether there are clots or particular matter present. Counts may be inaccurate in these circumstances.

Synovial Fluid Disease Category:

Group I: Noninflammatory

Group II: Inflammatory

Group III: Infectious

Group IV: Crystal-Induced

Group V: Hemorrhagic

Differentials are performed on all peritoneal dialysate fluids.

Differentials are performed on peritoneal lavage, peritoneal tap, pleural and synovial fluids only if the TNC is $> 0.3 \times 10^9/L$.

Special Processing:

Synovial fluids are pretreated with hyaluronidase prior to testing.

Storage and Shipment:

Ship sample at room temperature.

Specimens **must** be received in the laboratory within **1 hour of collection** as cells deteriorate quickly. Testing must proceed as quickly as possible following receipt in the laboratory.