

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 1 mL collected in K<sub>2</sub>EDTA.

### Reference Ranges:

Total Nucleated Cell Count:

Red Cell Count:

Appearance:

	TNC X 10 <sup>9</sup> /L	RBC X 10 <sup>12</sup> /L	Appearance
<b>Synovial</b>	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
<b>Pleural</b>	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.