

# Sepsis Marker **PCT** (Procalcitonin)



**SCHEDULE** : DAILY

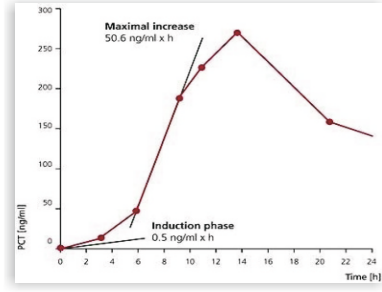
**METHOD** : TRACE METHOD (KRYPTOR)  
IMMUNO FLUORESCENCE (VIDAS)

**SAMPLE** : SERUM/ PLASMA(0.5)

**TAT** : 45 mins

## SELECTED INDICATION FOR PCT DETERMINATION

- Early diagnosis of systemic bacterial and fungal infections.
- Assessment of severity and prognosis of systemic infection, sepsis and multiple organ failure.
- Differential diagnosis of systemic infection vs. acute inflammatory disease.
- Infectious disease monitoring of high-risk patients in the ICU ward. for example, patient monitoring following organ Transplantation.
- Therapeutic monitoring after surgical elimination of the infected focus (ie., in cases of peritonitis) and after administration of antibodies.



**NORMAL RANGE IN NEONATES**  
(INCLUDING 95% OF ALL MEASUREMENTS)

Age in hrs	PCT (ng/ml)
00 - 06	02
06 - 12	08
12 - 18	15
18 - 30	21
30 - 36	15
36 - 42	08
42 - 48	02

## PCT REFERENCE RANGE IN NEONATES

Pct values are physiologically increased during the first two days of life so that a different reference range applied to premature and newborn infants.

The reference range for the first two days of life changes within a few hours. The adult reference range applies three days after birth.

Version 2.0  
12.03.2018

Diagnosis	PCT (ng/ml)	Antibiotic use		
		RTI	ICU Trauma	Co-morb. COPD
Septic shock	100	YES	YES	NO
Severe sepsis	10	YES	↑	NO
Sepsis	2	YES	YES	NO
Pneumonia	1	YES	Yes	NO
Bronchitis	0.5	Yes	No	YES
COPD	0.25	No	NO	Yes
Healthy	0.1	NO		No
	0.01			NO

Consider non-bacterial differential diagnosis

Patients	PCT (ng/ml)
Healthy	0 - 0.05
Local Bacterial Infection	0.05 - 0.5
Systemic Bacterial Infection	0.5 - 2

Patients	PCT (ng/ml)
Severe Sepsis	2 - 10
Septic Shock	>10

REFERENCE RANGE FOR PCT

**Microbiological Laboratory**

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**SCHEDULE** : DAILY

**METHOD** : TRACE METHOD (KRYPTOR)

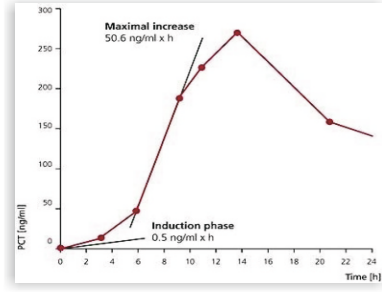
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Version 1.0  
16.11.2013

Diagnosis	PCT (ng/ml)	Antibiotic use		
		RTI	ICU Trauma	Co-morb. COPD
Septic shock	100	NO	NO	NO
Severe sepsis	10	NO	NO	NO
Sepsis	2	NO	NO	NO
Pneumonia	1	YES	Yes	NO
Bronchitis	0.5	Yes	No	YES
COPD	0.25	No	NO	Yes
Healthy	0.01	NO	NO	NO

Consider non-bacterial differential diagnosis

REFERENCE RANGE FOR PCT

Patients	PCT (ng/ml)	Patients	PCT (ng/ml)
Healthy	0.01 - 0.1	Sepsis	1.0 - 2.0
COPD	0.1 - 0.25	Severe Sepsis	2.0 - 10.0
Bronchitis	0.25 - 0.5	Septic Shock	10.0 - 100.0
Pneumonia	0.5 - 1.0		

**Microbiological Laboratory**

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