

Patient Name : Demo Patient Name
Age / Sex : 66 Y / F
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 20-Jan-25 10:29
Patient ID : UHID.DEMO.001

Procalcitonin

Serum Sample

Accession No: DEMO_BARCODE **Collected On:** 20-Jan-25 10:29 **Received On:** 20-Jan-25 13:26 **Approved On:** 20-Jan-25 14:30

Observation	Result	Unit	Biological Ref. Interval	Method
Procalcitonin	<0.05	ng/mL	0.05-0.09	ELFA

Biological Reference Range for Procalcitonin

- Diagnosis of Sepsis

PCT levels (ng/mL)	Interpretation
< 0.5	Systemic infection (sepsis) is unlikely.
0.5-2.0	Systemic infection (sepsis) is possible.
2.0-10.0	Systemic infection (sepsis) is likely, unless other causes are known.
>10.0	Important systemic inflammatory response, almost exclusively due to severe bacterial sepsis or septic shock.

- Decision Making on Antibiotic Therapy

PCT levels (ng/mL)	Interpretation
< 0.10	Indicates Absence of bacterial infection. Antibiotics therapy strongly discouraged
0.10-0.25	Bacterial infection unlikely. Antibiotic therapy discouraged
0.26-0.50	Bacterial infection is possible. Antibiotic therapy recommended.
>0.50	Suggestive of presence of bacterial infection. Antibiotic therapy strongly recommended

Clinical Significance: Procalcitonin, the prohormone of calcitonin is below limit of detection (0.05 ng/ml) in healthy individuals. It rises in response to an inflammatory stimulus especially of bacterial origin. It does not rise significantly with viral or non infectious inflammations.

Clinical Notes: PCT levels can be elevated in non infectious causes like:

*The first days after a major trauma, major surgical intervention, burns, treatment with OKT3 antibodies and other drugs stimulating the release of pro-inflammatory cytokines, small cell lung cancer, medullary C-cell carcinoma of thyroid.

*Patients with prolonged or severe cardiogenic shock, prolonged severe organ perfusion anomalies.

* Neonates < 48 hrs of life.

*Patients with PCT values <2 ng/ml should be closely monitored both clinically and by reassessing PCT within 6-24 hrs.

Please correlate results clinically.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

