




Procollagen III N-Terminal Peptide

Synonyms	Procollagen, PIIINP, P3NP
Clinical Indication	<p>Monitoring for hepatic fibrosis, particularly in patients receiving methotrexate treatment.</p> <p>Fibrosis occurring in the liver results in the deposition of collagen and release of propeptides, predominantly P3NP. Methotrexate is a successful form of treatment for psoriasis and RA. It has, however, been noted that prolonged exposure can result in irreversible hepatic fibrosis. This is particularly applicable to MTX use in psoriasis as lower doses are used in RA.</p> <p>Current guidelines issued by the British Association of Dermatologists (2016) on the use of methotrexate in psoriasis suggest P3NP measurements be carried out annually and three monthly after a raised value.</p>
Part of Profile / See Also	
Request Form	Combined Pathology manual Blood form or ICE request
Availability / Frequency of Analysis	Referred test: Analysed by King's College Hospital – Synnovis 9067 , London, if specific criteria met.
Turnaround Time	2-3 weeks
Patient Preparation	None required.
Sample Requirements	
Specimen Type	Serum
Volume	2 mL
Container	 Yellow top (SST) tube  Paediatric lithium heparin (Orange top – Sarstedt tube)  Paediatric SST (Yellow top – BD Microtainer)
Reference Range & Units	<p>The normal ranges for serum P3NP are as follows:</p> <p>0-3 years 3.4 - 52.6 µg/L</p> <p>4-9 years 3.4 - 12.1 µg/L</p> <p>10-16 years 2.9 - 24.4 µg/L</p> <p>17-18 years 2.0 - 7.0 µg/L</p>

>19 years 1.2 - 4.2 µg/L

Interferences

Interpretation & Clinical

Decision Value (if applicable)

In adults with psoriasis receiving methotrexate, P3NP results should be interpreted as follows:

- If P3NP is greater than 4.2 µg/L for the first time: repeat test in 3 months.
- If P3NP is raised:
 - > 8 µg/L on two occasions; or
 - > 4.2 µg/L but < 8.0 µg/L on three occasions within 12 months; or
 - > 10 µg/L on one occasion

results may indicate liver fibrosis - suggest onward referral for specialist advice.

PIIINP is a sensitive indicator of hepatic fibrosis, but may be raised in other conditions, particularly active connective tissue disease.

References

<http://www.viopath.co.uk/our-tests/procollagen-3-n-terminal-peptide-p3np>

<http://www.bad.org.uk/shared/get-file.ashx?id=4020&itemtype=document>

Test code

P3NP

Lab Handling

Aliquot 500ul and store in referrals rack at 4C. Sent daily by courier to King's College, London.



9067

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