LABORATORY REPORT

Redcliffe labs

Patient Name	:		
DOB/Age/Gender	:	Bill Date	:
Patient ID / UHID	:	Sample Collected	:
Referred By	:	Sample Received	:
Sample Type	:	Report Date	:
Barcode No	:	Report Status	:

Test Description	Value(s)	Unit(s)	Reference Range

BIOCHEMISTRY REPORT

Total P1NP

Total P1NP Method : ECLIA	42.3	ng/mL	

Interpretation:

REFERENCE GROUP	REFERENCE RANGE IN ng/mL
Adult Females . Pre menopausal . Post menopausal	15.13-58.59 16.27-73.87
Adult Males(51-70 Years)	<36.4

Note

1. In patients receiving therapy with high biotin doses, no sample should be taken until 8 hours after the last biotin administration
2. This test should be used in conjunction with medical history, clinical evaluation and other diagnostic procedures
3.As per National Osteoporosis Foundation (2014) Biochemical markers of bone turnover can aid in fracture risk assessment and serve as an additional monitoring tool when treatment is initiated.

Comments

More than 90% of organic bone matrix consists of Type 1 collagen which is synthesized within the bone. P1NP is a specific indicator of Type1 collagen deposition and hence may be defined as a true bone formation marker. Any condition increasing osteoblastic activity will elevate P1NP levels. A minimum change of 25% in P1NP levels from baseline is considered significant to predict response to therapy. It can be used to demonstrate direct positive impact of therapy on bone metabolism as early as 3 months after start of treatment in contrast to BMD which shows improvements nearly 2 years after the start of therapy.

Increased Levels

Osteoporosis, Paget’s disease, Primary or Secondary Hyperparathyroidism & Osteomalacia.

Clinical Use

1. To monitor effectiveness of therapy, identify non-compliant patients and predict fracture risk
2. As a marker for anabolic therapy monitoring.

P1NP in Therapeutic monitoring

THERAPY	EXPECTED RESPONSE	MEASUREMENT INTERVALS
Antiresorptive	At least 40% decrease	|Baseline before treatment & after |6 months then after every 6-12 months
Anabolic therapy	At least 40% Increase (preferred application)	Baseline before treatment & after 3 months then after every 6-12 months

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