

NEW TEST ANNOUNCEMENT

MMLNEW ENGLAND

NOTIFICATION DATE: May 15, 2012 **EFFECTIVE DATE:** June 19, 2012

NTX-TELOPEPTIDE, URINE Test ID: NTXPR

EXPLANATION: Effective June 19, 2012, NTX-Telopeptide, Test ID NTXP, performed in Rochester, will be made obsolete. It will be replaced with NTX-Telopeptide, Test ID NTXPR and will be performed at Mayo Medical Laboratories, New England.

USEFUL FOR:

- 1. As an adjunct in the diagnosis of medical conditions associated with increased bone turnover
- 2. In the differential diagnosis of osteomalacia versus osteoporosis
- 3. Identifying individuals with osteoporosis with elevated bone turnover and consequent increased risk for rapid disease progression
- 4. Prediction of bone densitometry response to antiresorptive therapy of osteoporosis
- 5. Monitoring and assessing effectiveness of therapy in patients treated for osteopenia, osteoporosis, Paget disease, or other disorders treated with antiresorptive therapy
- 6. As an adjunct in monitoring response to other therapeutic intervention in diseases with increased bone turnover (e.g., rickets, osteomalacia, hyperthyroidism)

METHODOLOGY: Vitros ECi Competitive Assay (NTX – Telopeptide, U) Enzymatic Colorimetric Assay (Creatinine, U)

REFERENCE VALUES:

All units are reported in nmol Bone Collagen Equivalents/mmol creatinine.

Males

<6 years: 576-1,763 6-13 years: 307-1,367 14-17 years: 102-1,048 > or =18 years: 21-66

Females

<6 years: 576-1,763 6-13 years: 307-1,367 14-17 years: 55-378 > or =18 years: 19-63

Values are based on Mayo in-house studies of 75 children and adolescents age 3.5 to 18.5 and >100 adults.

SPECIMEN REQUIREMENTS:

Container/Tube: Plastic, 13-mL urine tube

Specimen Volume: 4 mL Collection Instructions: 1. Collect urine for 24 hours.

- 2. 21
- 2. No preservative.
- 3. Refrigerate specimen during collection.

Additional Information:

1. 24-Hour collection is preferred, but second-morning voided or random specimen is also acceptable.

SPECIMEN STABILITY INFORMATION:

Specimen Type	Temperature	Time
Urine	Frozen (preferred)	30 days
	Refrigerated	5 days

CAUTIONS:

The intraindividual coefficient of variation of urine N-terminal telopeptide (NTx) measurements is approximately 30%. Part of this variation is due to diurnal fluctuations, and a 24-hour collection is preferred. However, a second-morning void and other random collections are acceptable. In the latter case, it is recommended that the measurement is repeated at least once in order to allow a more accurate estimation of the true average bone turnover in a patient.

Very dilute specimens may not allow measurement of a urine creatinine level and, therefore, reporting of NTx values normalized to creatinine becomes impossible.

Inadvertent collection of urine for NTx measurements in a collection bottle that contains an acidic preservative results in substantial artifactual elevations of apparent NTx concentrations; such specimens are unacceptable.

LIST FEE: \$ 180.80

CPT CODE: 82523

DAY(S) SET UP: Monday through Friday, 3rd shift

ANALYTIC TIME: 1 day

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or Rita Baird, MML Laboratory Technologist Resource Coordinator Telephone: 800-533-1710