8/26/2013 - Immediate Action, Quest Diagnostics Nichols Institute, Valencia

| NEW TESTS<br>Please Note: Not all test codes assigned to each assay are listed in the table of contents.<br>Please refer to the complete listing on the page numbers indicated. | | | |
|---|---|---|---|
| **Test Code** | **Test Name** | **Effective Date** | **Page #** |
| **91745** | **Thiopurine Metabolites** | 9/9/2013 | 1 |

| DISCONTINUED TESTS<br>Please Note: Not all test codes assigned to each assay are listed in the table of contents.<br>Please refer to the complete listing on the page numbers indicated. | | | |
|---|---|---|---|
| **Test Code** | **Test Name** | **Effective Date** | **Page #** |
| S50395 | **Prometheus® Thiopurine Metabolites** | 9/9/2013 | 2 |

| NY UPDATE<br>Please Note: Not all test codes assigned to each assay are listed in the table of contents.<br>Please refer to the complete listing on the page numbers indicated. | | |
|---|---|---|
| **Test Code** | **Test Name** | **Page #** |
| | **New York Patient Testing Update** | 2 |

**Due to the background information related to these changes, we are unable to use our normal method of communication. These changes listed in this document are effective in less than 30 days. Please note the individual effective dates below, as some of these changes require IMMEDIATE ACTION.**

## New Test Offerings

The following tests will be available through Quest Diagnostics on the dates indicated below.

| **Thiopurine Metabolites** | |
|---|---|
| Clinical Significance | 6-Mercaptopurine (Purinethol) and its imidazolyl derivative, Azathioprine (Imuran), are immunosuppressive drugs. 6-Mercaptopurine (6-MP) is indicated for remission induction and maintenance therapy of acute lymphoblastic leukemia (ALL). Azathioprine is indicated as an adjunct for the prevention of rejection in renal allograft (kidney transplant) patients, for the management of rheumatoid arthritis, and for the management of inflammatory bowel disease. Azathioprine is cleaved to 6-MP. 6-MP is metabolized via a series of enzymatic steps to 6-thioguanine nucleotides (6-TGNs), to 6-methyl-mercaptopurine (6-MMPNs) by the enzyme thiopurine methyltransferase (TPMT), and to 6-thiouric acid by the enzyme xanthine oxidase (XO). TPMT enzyme activity has large inter-individual variations which affect the efficacy, toxicity and variability of the treatment. Therapeutic drug monitoring of 6-MP metabolites (6-TGNs and 6-MMPNs) in erythrocytes is recommended to assist therapy, particularly in combination with TPMT enzyme activity or mutation analysis. |
| **Effective Date** | **9/9/2013** |
| Test Code | **91745** |
| CPT Codes | **83789** |
| Specimen Requirements | **5 mL (2.5 mL minimum) whole blood collected in an EDTA (lavender-top) tube.** |
| Reject Criteria | **Heparin whole blood; Frozen** |
| Instructions | **A trough specimen is required (within 1 hour prior to the next dose).** |
| Transport Temperature | **Refrigerated** |
| Specimen Stability | **Room temperature: 6 hours**<br>**Refrigerated: 72 hours**<br>**Frozen: Unacceptable** |
| Set-up/Analytic Time | **Set-up: Tue, Thurs, Sat; Report available: 2-4 days** |



The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payor being billed. Any Profile/panel component may be ordered separately. Reflex tests are performed at an additional charge.

| | |
|---|---|
| Reference Range | **Thiopurine Metabolites**<br>**6-TG**: **235-400 pmol/8x10(8) RBC**<br>**6-MMP**: **<5700 pmol/8x10(8) RBC** |
| Units Of Measure | **pmol/8x10(8) RBC** |
| Always Message | **These results are useful in assessing a patient's metabolism of azathioprine (AZA) or 6-mercaptopurine (6-MP). A 6-thioguanine (6-TG) level greater than 235 pmol/8x10(8) RBC has been associated with remission and very high levels have been associated with leucopenia. 6-methylmercaptopurine (6-MMP) levels greater than 5700 pmol/8x10(8) RBC may be associated with hepatoxicity.** |
| Methodology | **Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)** |
| Performing Site | **Quest Diagnostics Nichols Institute, Valencia** |
| CPU Mappings | **Result Code** / **Result Name**<br>**86009888** / **6-TG**<br>**86009889** / **6-MMP** |

## Discontinued Tests

| **Prometheus® Thiopurine Metabolites** | |
|---|---|
| **Effective Date** | **9/9/2013** |
| Test Code | S50395 |
| Additional Information | The recommended alternative is 91745 Thiopurine Metabolites in the New Test Offering section |

## New York Testing Update

| **New York Patient Testing Update** | |
|---|---|
| Message | *****The following tests are not available for New York patient testing***** |
| **Effective Date** | **8/26/2013** |
| Tests Affected | **Test Codes:** / **Name:**<br>S50504 / Antiviral Susceptibility, Acyclovir<br>S50566 / Antiviral Susceptibility, Foscarnet<br>S49739 / Treponema Pallidum IgG and IgM Ab Panel, IFA |



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