February 23, 2010

Dear Valued Client:

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled the enclosed packet of important changes regarding a number of tests we perform. Listed below are the types of changes included in this packet.

| Type of Change | Explanation |
|---|---|
| New Tests | Tests recently added to the NMS Labs test menu. New Tests are effective immediately. |
| Test Changes | Tests that have had changes to their method/CPT code, units of measurement, scope of analysis or specimen requirements. |
| Discontinued Tests | Tests being discontinued with alternate testing suggestions. |

Please be advised all changes listed in this packet will go into effect on **June 7, 2010**. Please use this packet of information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this packet, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

Sincerely,

NMS Labs

## Database Changes - Summary

| Test Code | Test Name | New Test | Method/ CPT code | Units | Scope | Specimen Reqs | Stability | Discontinued | Reference Comment | Misc. |
|---|---|---|---|---|---|---|---|---|---|---|
| 0402U | Anthraquinones (Qualitative), Urine | | | | | | | | | • |
| 0658B | Bisacodyl (Qualitative), Blood | | | | | | | | | • |
| 0658SP | Bisacodyl (Qualitative), Serum/Plasma | | | | | | | | | • |
| 0658ST | Bisacodyl (Qualitative), Stool | | | | | | | | | • |
| 0658U | Bisacodyl (Qualitative), Urine | | | | | | | | | • |
| 0960ME | Cannabinoids Panel (Qualitative), Meconium | | | | | | | | | • |
| 0960ST | Cannabinoids Panel (Qualitative), Stool | | | | | | | | | • |
| 0997B | Carbon Disulfide, Blood | | | | | | | • | | |
| 0997SP | Carbon Disulfide, Serum/Plasma | | | | | | | • | | |
| 0997U | Carbon Disulfide, Urine | | | | | | | • | | |
| 2849ME | Methaqualone (Qualitative), Meconium | | | | | | | | | • |
| 3227U | Beta-Blockers Panel, Urine | | | | | • | | | | |
| 3284U | Oxyphenisatin (Qualitative), Urine | | | | | | | | | • |
| 4018U | Propofol Glucuronide, Urine | • | | | | | | | | |
| 4085B | Ranitidine, Blood | | | | | | | | • | |
| 4085SP | Ranitidine, Serum/Plasma | | | | | | | | • | |
| 4469B | Thiothixene (Cis Isomer), Blood | | | | | | | | | • |
| 4469SP | Thiothixene (Cis Isomer), Serum/Plasma | | | | | | | | | • |
| 4469U | Thiothixene (Cis Isomer), Urine | | | | | | | | | • |
| 7620SP | 17-Hydroxyprogesterone, Serum/Plasma | | | | | | | | • | |
| 7644SP | Congenital Adrenal Hyperplasia (CAH) Panel, Serum/Plasma | | | | | | | | • | |
| 8005B | Bromide, Blood | | | | | | | • | | |
| 8005SP | Bromide, Serum/Plasma | | | | | | | • | | |
| 8005U | Bromide, Urine | | | | | | | • | | |
| 8622U | Amobarbital, Urine | | | | | | | • | | |
| 8625SP | Butabarbital, Serum/Plasma | | | | | | | • | | |
| 8626B | Butalbital, Blood | | | | | | | • | | |
| 8626SP | Butalbital, Serum/Plasma | | | | | | | • | | |
| 8626U | Butalbital, Urine | | | | | | | • | | |
| 8632B | Pentobarbital, Blood | | | | | | | • | | |
| 8632SP | Pentobarbital, Serum/Plasma | | | | | | | • | | |
| 8632U | Pentobarbital, Urine | | | | | | | • | | |
| 8634B | Secobarbital, Blood | | | | | | | • | | |
| 8634SP | Secobarbital, Serum/Plasma | | | | | | | • | | |
| 8634U | Secobarbital, Urine | | | | | | | • | | |
| 8661B | Codeine and Metabolite - Free (Unconjugated), Blood (Forensic) | | | | | | | | | • |
| 8661SP | Codeine and Metabolite - Free (Unconjugated), Serum/Plasma (Forensic) | | | | | | | | | • |
| 8661U | Codeine and Metabolite - Total (Conjugated/Unconjugated), Urine (Forensic) | | | | | | | | | • |

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## NEW TESTS

| Test Code | Test Name | Reporting Limit | Units | Method / CPT Code |
|---|---|---|---|---|
| **4018U** | **Propofol Glucuronide, Urine** | | | |
| Scope of Analysis: | Propofol Glucuronide | 1 | mcg/mL | LC-MS/MS (83789) |
| Reference Comment: | Propofol glucuronide is the main urinary metabolite of propofol, a hypnotic agent used for the induction and maintenance of general anesthesia.<br><br>Urine discoloration (white, pink and green) has been documented during propofol treatment. | | | |
| Specimen Requirements: | Specimen Requirements: 1 mL Urine<br>Transport Temperature: Refrigerated<br>Specimen Container: Plastic Container (Preservative-free)<br>Light Protection: Not Required<br>Special Handling: None<br>Rejection Criteria: None | | | |
| Stability: | Room Temperature: 30 day(s)<br>Refrigerated: 30 day(s)<br>Frozen (-20 °C): 30 day(s) | | | |

## TEST UPDATES
### Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

| Test Code | Test Name | Units | Method / CPT Code |
|---|---|---|---|
| **0402U** | **Anthraquinones (Qualitative), Urine** | | |
| Summary of Updates: | For Quality Improvement purposes the following updates were made.<br>Test Name was changed. | | |
| **3227U** | **Beta-Blockers Panel, Urine** | | |
| Specimen Requirements: | Specimen Requirements: **5 mL** Urine<br>Transport Temperature: Refrigerated<br>Specimen Container: NMS Labs has no experimental or literature-based data regarding the choice of specific specimen collection containers for this test.<br>Light Protection: Not Required<br>Special Handling: None<br>Rejection Criteria: Received Room Temperature. | | |
| Summary of Updates: | For Quality Improvement purposes the following updates were made.<br>Requested volume was increased. | | |
| **0658B** | **Bisacodyl (Qualitative), Blood** | | |
| Summary of Updates: | For Quality Improvement purposes the following updates were made.<br>Test Name was changed. | | |
| **0658SP** | **Bisacodyl (Qualitative), Serum/Plasma** | | |
| Summary of Updates: | For Quality Improvement purposes the following updates were made.<br>Test Name was changed. | | |

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## TEST UPDATES
### Method/CPT Code*, Units of Measurement, Scope of Analysis and Specimen Requirements

| Test Code | Test Name | Units | Method / CPT Code |
|---|---|---|---|
| **0658ST** | **Bisacodyl (Qualitative), Stool** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **0658U** | **Bisacodyl (Qualitative), Urine** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **0960ME** | **Cannabinoids Panel (Qualitative), Meconium** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **0960ST** | **Cannabinoids Panel (Qualitative), Stool** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **8661B** | **Codeine and Metabolite - Free (Unconjugated), Blood (Forensic)** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **8661SP** | **Codeine and Metabolite - Free (Unconjugated), Serum/Plasma (Forensic)** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **8661U** | **Codeine and Metabolite - Total (Conjugated/Unconjugated), Urine (Forensic)** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **2849ME** | **Methaqualone (Qualitative), Meconium** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **3284U** | **Oxyphenisatin (Qualitative), Urine** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **4469B** | **Thiothixene (Cis Isomer), Blood** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **4469SP** | **Thiothixene (Cis Isomer), Serum/Plasma** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |
| **4469U** | **Thiothixene (Cis Isomer), Urine** | | |
| | Summary of Updates: For Quality Improvement purposes the following updates were made. Test Name was changed. | | |

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## DISCONTINUED TESTS

| Test Code | Test Name | Alternative Test |
|---|---|---|
| 8622U | Amobarbital, Urine | 0320U Amobarbital |
| 8625SP | Butabarbital, Serum/Plasma | 0810SP Butabarbital |
| 8626B | Butalbital, Blood | 0830B Butalbital |
| 8626SP | Butalbital, Serum/Plasma | 0830SP Butalbital |
| 8626U | Butalbital, Urine | 0830U Butalbital |
| 8005B | Bromide, Blood | 0720B Bromide, Blood |
| 8005SP | Bromide, Serum/Plasma | 0720SP Bromide, Serum/Plasma |
| 8005U | Bromide, Urine | 0720U Bromide, Urine |
| 0997B | Carbon Disulfide, Blood | No alternate test available |
| 0997SP | Carbon Disulfide, Serum/Plasma | No alternate test available |
| 0997U | Carbon Disulfide, Urine | 0995U Carbon Disulfide Exposure Biouptake, Urine |
| 8632B | Pentobarbital, Blood | 3410B Pentobarbital |
| 8632SP | Pentobarbital, Serum/Plasma | 3410SP Pentobarbital |
| 8632U | Pentobarbital, Urine | 3410U Pentobarbital |
| 8634B | Secobarbital, Blood | 4170B Secobarbital |
| 8634SP | Secobarbital, Serum/Plasma | 4170SP Secobarbital |
| 8634U | Secobarbital, Urine | 4170U Secobarbital |

## REFERENCE COMMENT CHANGES

| Test Code | Test Name / Compound | New Reference Comment |
|---|---|---|
| **7620SP** | **17-Hydroxyprogesterone, Serum/Plasma**<br>• 17-Hydroxyprogesterone | Reference Intervals for patients up to 6 months:<br>25 - 248 ng/dL<br><br>Reference Intervals for Females:<br>Age 6 months - 5 years: 3 - 107 ng/dL<br>Age 6 - 9 years: 6 - 62 ng/dL<br>Age 10 - 17 years: 15 - 137 ng/dL<br>Age 18 years and above: 3 - 177 ng/dL<br><br>Reference Intervals for Males:<br>Age 6 months - 17 years: 7 - 100 ng/dL<br>Age 18 years and above: 14 - 115 ng/dL |

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## REFERENCE COMMENT CHANGES

| Test Code | Test Name / Compound | New Reference Comment |
|---|---|---|
| **7644SP** | **Congenital Adrenal Hyperplasia (CAH) Panel, Serum/Plasma**<br>• 17-Hydroxyprogesterone | Reference Intervals for patients up to 6 months:<br>25 - 248 ng/dL<br><br>Reference Intervals for Females:<br>Age 6 months - 5 years: 3 - 107 ng/dL<br>Age 6 - 9 years: 6 - 62 ng/dL<br>Age 10 - 17 years: 15 - 137 ng/dL<br>Age 18 years and above: 3 - 177 ng/dL<br><br>Reference Intervals for Males:<br>Age 6 months - 17 years: 7 - 100 ng/dL<br>Age 18 years and above: 14 - 115 ng/dL |
| **4085B** | **Ranitidine, Blood**<br>• Ranitidine | Following the oral administration of 150 mg, the reported mean peak plasma concentrations ranged from 440 - 530 ng/mL at 2 to 3 hours. With chronic administration of 150 mg twice daily, the reported trough serum concentrations were approximately 55 ng/mL.<br><br>IV administration of 1 mg/kg was reported to produce mean concentrations of 3500 ng/mL at 0.5 hours, 200 ng/mL at 2 hours and 100 ng/mL at 4 hours.<br><br>The blood/plasma ratio of the drug is 1.0 to 1.1. |
| **4085SP** | **Ranitidine, Serum/Plasma**<br>• Ranitidine | Following the oral administration of 150 mg, the reported mean peak plasma concentrations ranged from 440 - 530 ng/mL at 2 to 3 hours. With chronic administration of 150 mg twice daily, the reported trough serum concentrations were approximately 55 ng/mL.<br><br>IV administration of 1 mg/kg was reported to produce mean concentrations of 3500 ng/mL at 0.5 hours, 200 ng/mL at 2 hours and 100 ng/mL at 4 hours. |