

Esoterix Update

A Newsletter for Clients

Volume I, N° 1 | September 2010

Welcome to the first issue of *Esoterix Update*, a new monthly newsletter for clients. *Esoterix Update* is designed as a single point of reference to keep you informed about changes to the Esoterix *Test Menu*, new test procedures, holiday closures, and important client announcements. Our newsletter will be distributed on a monthly basis to current Esoterix accounts, and a copy will be available on our Web site, www.esoterix.com, for reference.

We hope you find *Esoterix Update* a useful tool. For questions or additional information, please contact us at 800-444-9111. We value you as a customer and thank you for choosing Esoterix.

Announcements

In observance of the Labor Day holiday, all Esoterix facilities will be closed on Monday, September 6, 2010. For questions regarding specimen handling, contact Esoterix Client Services, 800-444-9111.

Updates to the Esoterix Test Menu

The following changes to the Esoterix *Test Menu* are scheduled to be implemented on September 20, 2010, unless otherwise noted.

For the most up-to-date test information, please consult the Esoterix *Test Menu* at www.esoterix.com.

Test Name	N°	Field/Change (Only fields that change are included here.)																
Alanine Aminotransferase (ALT/SGTP)	500632	Specimen Serum or heparin plasma Minimum Volume 0.5 mL Methodology Enzymatic Reference Interval Children and adults: Males <56 U/L, Females <41 U/L																
Albumin	500223	Specimen Serum or heparin plasma Minimum Volume 0.5 mL Methodology Colorimetric Reference Interval <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td><4 days</td> <td>2.8–4.4 g/dL</td> </tr> <tr> <td>4 days–2 yrs</td> <td>3.4–4.2 g/dL</td> </tr> <tr> <td>3–59 yrs</td> <td>3.5–5.5 g/dL</td> </tr> <tr> <td>60–69 yrs</td> <td>3.6–4.8 g/dL</td> </tr> <tr> <td>70–79 yrs</td> <td>3.5–4.8 g/dL</td> </tr> <tr> <td>80–89 yrs</td> <td>3.5–4.7 g/dL</td> </tr> <tr> <td>90 yrs and older</td> <td>3.2–4.6 g/dL</td> </tr> </tbody> </table>	Age	Reference Interval	<4 days	2.8–4.4 g/dL	4 days–2 yrs	3.4–4.2 g/dL	3–59 yrs	3.5–5.5 g/dL	60–69 yrs	3.6–4.8 g/dL	70–79 yrs	3.5–4.8 g/dL	80–89 yrs	3.5–4.7 g/dL	90 yrs and older	3.2–4.6 g/dL
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Alkaline Phosphatase	500633	<p>Specimen Serum or heparin plasma Volume 2 mL Minimum Volume 0.5 mL Methodology Colorimetric</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td colspan="2">Males and Females</td> </tr> <tr> <td>0–1 day</td> <td><107 U/L</td> </tr> <tr> <td>2–5 days</td> <td><118 U/L</td> </tr> <tr> <td>6–7 days</td> <td><142 U/L</td> </tr> <tr> <td>8–30 days</td> <td><405 U/L</td> </tr> <tr> <td>1–6 mos</td> <td><437 U/L</td> </tr> <tr> <td>7–12 mos</td> <td><343 U/L</td> </tr> <tr> <td>1–3 yrs</td> <td><322 U/L</td> </tr> <tr> <td>4–6 yrs</td> <td><317 U/L</td> </tr> <tr> <td>7–12 yrs</td> <td><350 U/L</td> </tr> <tr> <td colspan="2">Males</td> </tr> <tr> <td>13 yrs</td> <td><384 U/L</td> </tr> <tr> <td>14 yrs</td> <td><330 U/L</td> </tr> <tr> <td>15 yrs</td> <td><242 U/L</td> </tr> <tr> <td>16 yrs</td> <td><180 U/L</td> </tr> <tr> <td>17 yrs</td> <td><145 U/L</td> </tr> <tr> <td>18 yrs</td> <td><124 U/L</td> </tr> <tr> <td>19 yrs and older</td> <td><131 U/L</td> </tr> <tr> <td colspan="2">Females</td> </tr> <tr> <td>13 yrs</td> <td><197 U/L</td> </tr> <tr> <td>14 yrs</td> <td><145 U/L</td> </tr> <tr> <td>15 yrs</td> <td><120 U/L</td> </tr> <tr> <td>16 yrs</td> <td><107 U/L</td> </tr> <tr> <td>17 yrs</td> <td><100 U/L</td> </tr> <tr> <td>18 yrs</td> <td><96 U/L</td> </tr> <tr> <td>19 yrs and older</td> <td><106 U/L</td> </tr> </tbody> </table>	Age	Reference Interval	Males and Females		0–1 day	<107 U/L	2–5 days	<118 U/L	6–7 days	<142 U/L	8–30 days	<405 U/L	1–6 mos	<437 U/L	7–12 mos	<343 U/L	1–3 yrs	<322 U/L	4–6 yrs	<317 U/L	7–12 yrs	<350 U/L	Males		13 yrs	<384 U/L	14 yrs	<330 U/L	15 yrs	<242 U/L	16 yrs	<180 U/L	17 yrs	<145 U/L	18 yrs	<124 U/L	19 yrs and older	<131 U/L	Females		13 yrs	<197 U/L	14 yrs	<145 U/L	15 yrs	<120 U/L	16 yrs	<107 U/L	17 yrs	<100 U/L	18 yrs	<96 U/L	19 yrs and older	<106 U/L
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Amylase	500649	<p>Specimen Serum or heparin plasma Minimum Volume 0.5 mL</p> <p>Reference Interval Children and adults: 31 – 124 U/L</p>																																																						
Amylase, Urine, Random	501032	<p>Volume 10 mL Minimum Volume 0.5 mL Methodology Enzymatic</p> <p>Reference Interval Children and adults: <461 U/L</p>																																																						
Aspartate Aminotransferase (AST/SGOT)	500631	<p>Specimen Serum or heparin plasma Minimum Volume 0.5 mL</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td colspan="2">Males</td> </tr> <tr> <td colspan="2">Females</td> </tr> <tr> <td>1–7 days</td> <td><101 U/L</td> </tr> <tr> <td>8–30 days</td> <td><71 U/L</td> </tr> <tr> <td>1–3 mos</td> <td><64 U/L</td> </tr> <tr> <td>4–6 mos</td> <td><66 U/L</td> </tr> <tr> <td>7–12 mos</td> <td><56 U/L</td> </tr> <tr> <td>1–3 yrs</td> <td><56 U/L</td> </tr> <tr> <td>4–6 yrs</td> <td><48 U/L</td> </tr> <tr> <td>7–9 yrs</td> <td><42 U/L</td> </tr> <tr> <td>10–12 yrs</td> <td><38 U/L</td> </tr> <tr> <td>13–15 yrs</td> <td><39 U/L</td> </tr> <tr> <td>16–17 yrs</td> <td><39 U/L</td> </tr> <tr> <td>18 yrs and older</td> <td><38 U/L</td> </tr> </tbody> </table>	Age	Reference Interval	Males		Females		1–7 days	<101 U/L	8–30 days	<71 U/L	1–3 mos	<64 U/L	4–6 mos	<66 U/L	7–12 mos	<56 U/L	1–3 yrs	<56 U/L	4–6 yrs	<48 U/L	7–9 yrs	<42 U/L	10–12 yrs	<38 U/L	13–15 yrs	<39 U/L	16–17 yrs	<39 U/L	18 yrs and older	<38 U/L																								
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Bicarbonate	500635	<p>Specimen Serum or heparin plasma Methodology Enzymatic</p> <p>Reference Interval Children and adults: 20–32 mmol/L</p>																																																						
Bilirubin, Direct	500659	<p>Methodology Diazo</p> <p>Reference Interval Children and adults: <0.41 mg/dL</p>																																																						

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Bilirubin, Total	500620	Methodology Diazo	Reference Interval <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>24 hrs</td> <td><8.1 mg/dL</td> </tr> <tr> <td>48 hrs</td> <td><13.3 mg/dL</td> </tr> <tr> <td>72 hrs</td> <td><15.7 mg/dL</td> </tr> <tr> <td>3-4 days</td> <td><16.7 mg/dL</td> </tr> <tr> <td>5-7 days</td> <td><17.1 mg/dL</td> </tr> <tr> <td>8 days-1 month</td> <td>Not established</td> </tr> <tr> <td>1 mo-18 yrs</td> <td><1.1 mg/dL</td> </tr> <tr> <td>18 yrs and older</td> <td><1.3 mg/dL</td> </tr> </tbody> </table>	Age	Reference Interval	24 hrs	<8.1 mg/dL	48 hrs	<13.3 mg/dL	72 hrs	<15.7 mg/dL	3-4 days	<16.7 mg/dL	5-7 days	<17.1 mg/dL	8 days-1 month	Not established	1 mo-18 yrs	<1.1 mg/dL	18 yrs and older	<1.3 mg/dL
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Calcium	500637	Specimen Serum or heparin plasma Methodology Colorimetric	Reference Interval <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td><11 days</td> <td>8.6-10.4 mg/dL</td> </tr> <tr> <td>11 days-1yr</td> <td>9.2-11.0 mg/dL</td> </tr> <tr> <td>2-11 yrs</td> <td>9.1-10.5 mg/dL</td> </tr> <tr> <td>12-17 yrs</td> <td>8.9-10.4 mg/dL</td> </tr> <tr> <td>18-59 yrs</td> <td>8.7-10.2 mg/dL</td> </tr> <tr> <td>60 yrs and older</td> <td>8.6-10.2 mg/dL</td> </tr> </tbody> </table>	Age	Reference Interval	<11 days	8.6-10.4 mg/dL	11 days-1yr	9.2-11.0 mg/dL	2-11 yrs	9.1-10.5 mg/dL	12-17 yrs	8.9-10.4 mg/dL	18-59 yrs	8.7-10.2 mg/dL	60 yrs and older	8.6-10.2 mg/dL				
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Calcium, Urine	500051	Methodology Colorimetric	Reference Interval <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Calcium Urine, Random</td> <td>Not determined</td> </tr> <tr> <td>Calcium Urine/Creatinine Ratio</td> <td>Males: 70-200 mg/g creatinine Females: 80-230 mg/g creatinine</td> </tr> <tr> <td>Calcium Urine, 24 hr</td> <td>Males and females: 100-300 mg/24 hr</td> </tr> </tbody> </table>	Test	Reference Interval	Calcium Urine, Random	Not determined	Calcium Urine/Creatinine Ratio	Males: 70-200 mg/g creatinine Females: 80-230 mg/g creatinine	Calcium Urine, 24 hr	Males and females: 100-300 mg/24 hr										
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Chloride	500641	Methodology Ion-selective electrodes direct	Reference Interval Children and adults: 97-108 mmol/L																		
Chloride Urine	500383	Volume 10 mL Methodology Ion-selective electrodes direct	Reference Interval <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Chloride Urine, Random</td> <td>Not determined</td> </tr> <tr> <td>Chloride Urine/Creatinine Ratio</td> <td>Males: 70-170 mmol/g creatinine Females: 80-190 mmol/g creatinine</td> </tr> <tr> <td>Chloride Urine, 24 hr</td> <td>Males and females: 110-250 mmol/24 hr</td> </tr> </tbody> </table>	Test	Reference Interval	Chloride Urine, Random	Not determined	Chloride Urine/Creatinine Ratio	Males: 70-170 mmol/g creatinine Females: 80-190 mmol/g creatinine	Chloride Urine, 24 hr	Males and females: 110-250 mmol/24 hr										
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Cholesterol	500601	Methodology Enzymatic, colorimetric	Reference Interval <20 yrs: <170 mg/dL, Adults: <200 mg/dL																		

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Creatinine	500634	Specimen Serum or heparin plasma Methodology Jaffe reaction, colorimetric																																		
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Fructosamine	500608	Reference Interval <286 µmol/L																																		
γ-Glutamyl Transferase	500646	Specimen Serum or heparin plasma Minimum Volume 0.5 mL Methodology Enzymatic, colorimetric																																		
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GlycoMark™	500609	Reference Interval Glycemic control goal for diabetic patients: >10 µg/mL																																		
Glucose, Plasma	500797	Specimen Sodium flouride plasma or EDTA plasma Minimum Volume 0.5 mL Methodology Enzymatic, hexokinase Reference Interval Children and adults (fasting): 65–99 mg/dL																																		
Glucose, Serum	501190	Specimen Serum Minimum Volume 0.5 mL Methodology Enzymatic, hexokinase Reference Interval Children and adults (fasting): 65–99 mg/dL																																		
Glucose, Urine	501191	Volume 10 mL Methodology Enzymatic, hexokinase Additional Information New Glucose Urine 24 hr reporting unit=mg/24hr																																		
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HDL Cholesterol	500602	Specimen Serum or heparin plasma or EDTA plasma Methodology Enzymatic, colorimetric Reference Interval Adults: >39 mg/dL																																		

Test Name	Nº	Field/Change (Only fields that change are included here.)												
Hemoglobin A1c (Glycosylated Hemoglobin, Hemoglobin A1c, Mean Blood Glucose)	502080	<p>Reason for Change Report Name for Mean Blood Glucose being changed to Estimated Average Glucose</p> <p>Additional Information Update to test calculation formula: (28.7 x A1c result) - 46.7 = Estimated Average Glucose Changes scheduled to be implemented on September 13, 2010</p> <p>Reference Interval No established reference intervals for Estimated Average Glucose</p>												
Insulin Antibodies	500225	<p>Additional Information Changes scheduled to be implemented on September 13, 2010</p> <p>Reference Interval All ages: <5.0 µU/mL</p>												
Iron	500648	<p>Methodology FerroZine</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Males and Females</td> </tr> <tr> <td><4 yrs</td> <td>40–130 µg/dL</td> </tr> <tr> <td>4–9 yrs</td> <td>40–150 µg/dL</td> </tr> <tr> <td colspan="2" style="text-align: center;">Males Females</td> </tr> <tr> <td>10 yrs and older</td> <td>61–157 µg/dL 37–145 µg/dL</td> </tr> </tbody> </table>	Age	Reference Interval	Males and Females		<4 yrs	40–130 µg/dL	4–9 yrs	40–150 µg/dL	Males Females		10 yrs and older	61–157 µg/dL 37–145 µg/dL
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Lactate Dehydrogenase	500642	<p>Specimen Serum or heparin plasma</p> <p>Methodology Enzymatic</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>4–20 days</td> <td>Males and females: <600 IU/L</td> </tr> <tr> <td>2–15 yrs</td> <td>Males and females: <300 IU/L</td> </tr> <tr> <td>16 yrs and older</td> <td>Males: <225 IU/L Females: <215 IU/L</td> </tr> </tbody> </table>	Age	Reference Interval	4–20 days	Males and females: <600 IU/L	2–15 yrs	Males and females: <300 IU/L	16 yrs and older	Males: <225 IU/L Females: <215 IU/L				
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16 yrs and older	Males: <225 IU/L Females: <215 IU/L													
LDL Direct	500604	<p>Methodology Enzymatic, colorimetric</p> <p>Reference Interval Adults: <100 mg/dL</p>												
Lipase	500708	<p>Methodology Enzymatic, colorimetric</p> <p>Reference Interval Children and adults: <60 U/L</p>												
Magnesium	500652	<p>Specimen Serum or heparin plasma</p> <p>Methodology Colorimetric</p> <p>Reference Interval Children and adults: 1.6–2.6 mg/dL</p>												
Magnesium, Urine	501261	<p>This test will no longer be performed at the Esoterix testing site. Customers ordering Magnesium, Urine through Esoterix have been contacted directly with alternative test request information. Please contact Esoterix Customer Service for information about ordering this test through LabCorp, our parent company.</p>												
Microalbumin, Urine	502440	<p>Volume 10 mL</p> <p>Methodology Immunoturbidimetric</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Microalbumin Urine, Random</td> <td><17.1 µg/mL</td> </tr> <tr> <td>Microalbumin Urine/Creatinine Ratio</td> <td><30 mg/g creatinine</td> </tr> <tr> <td>Microalbumin Urine, 24 hr</td> <td><30 mg/24hr</td> </tr> </tbody> </table>	Test	Reference Interval	Microalbumin Urine, Random	<17.1 µg/mL	Microalbumin Urine/Creatinine Ratio	<30 mg/g creatinine	Microalbumin Urine, 24 hr	<30 mg/24hr				
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Phosphorous	500638	<p>Specimen Serum or heparin plasma or EDTA plasma</p> <p>Methodology Colorimetric</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td><10 days (premature)</td> <td>4.0–8.7 mg/dL</td> </tr> <tr> <td>2 mo–1 yr</td> <td>5.0–10.9 mg/dL</td> </tr> <tr> <td>1–17 yrs</td> <td>3.4–6.4 mg/dL</td> </tr> <tr> <td>18–19 yrs</td> <td>2.7–4.6 mg/dL</td> </tr> <tr> <td>20 yrs and older</td> <td>2.7–4.5 mg/dL</td> </tr> </tbody> </table>	Age	Reference Interval	<10 days (premature)	4.0–8.7 mg/dL	2 mo–1 yr	5.0–10.9 mg/dL	1–17 yrs	3.4–6.4 mg/dL	18–19 yrs	2.7–4.6 mg/dL	20 yrs and older	2.7–4.5 mg/dL
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Phosphorus, Urine	500384	<p>Volume 10 mL</p> <p>Minimum Volume 1 mL</p> <p>Methodology Colorimetric</p> <p>Additional Information New Phosphorus Urine 24 hr reporting unit=mg/24hr</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Phosphorous Urine, Random</td> <td>Not determined</td> </tr> <tr> <td>Phosphorous Urine/Creatinine Ratio</td> <td>Males: 267–867 mg/g creatinine Females: 308–1000 mg/g creatinine</td> </tr> <tr> <td>Phosphorous Urine, 24 hr</td> <td>Normal adult, unrestricted diet: 400–1300 mg/24hr</td> </tr> </tbody> </table>	Test	Reference Interval	Phosphorous Urine, Random	Not determined	Phosphorous Urine/Creatinine Ratio	Males: 267–867 mg/g creatinine Females: 308–1000 mg/g creatinine	Phosphorous Urine, 24 hr	Normal adult, unrestricted diet: 400–1300 mg/24hr				
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Potassium	500640	<p>Methodology Ion-selective electrodes direct</p> <p>Reference Interval Children and adults: 3.5–5.2 mmol/L</p>																				
Potassium, Urine	500382	<p>Volume 10 mL</p> <p>Minimum Volume 1 mL</p> <p>Methodology Ion-selective electrodes direct</p> <p>Additional Information New Potassium Urine reporting unit=mmol/L. New Potassium Urine 24 hr reporting unit=mmol/24hr</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Potassium Urine, Random</td> <td>All ages</td> <td>Not determined</td> </tr> <tr> <td rowspan="3">Potassium Urine/ Creatinine Ratio</td> <td>6–10 yrs</td> <td>Males: 6–28 mmol/g creatinine Females: 11–36 mmol/g creatinine</td> </tr> <tr> <td>11–14 yrs</td> <td>Males: 14–45 mmol/g creatinine Females: 15–38 mmol/g creatinine</td> </tr> <tr> <td>15 yrs and older</td> <td>Males: 17–83 mmol/g creatinine Females: 19–96 mmol/g creatinine</td> </tr> <tr> <td rowspan="3">Potassium Urine, 24 hr</td> <td>6–10 yrs</td> <td>Males: 17–54 mmol/24 hr Females: 8–37 mmol/24 hr</td> </tr> <tr> <td>11–14 yrs</td> <td>Males: 22–57 mmol/24 hr Females: 18–58 mmol/24 hr</td> </tr> <tr> <td>15 yrs and older</td> <td>Males and females: 25–125 mmol/24 hr, level varies with diet</td> </tr> </tbody> </table>	Test	Age	Reference Interval	Potassium Urine, Random	All ages	Not determined	Potassium Urine/ Creatinine Ratio	6–10 yrs	Males: 6–28 mmol/g creatinine Females: 11–36 mmol/g creatinine	11–14 yrs	Males: 14–45 mmol/g creatinine Females: 15–38 mmol/g creatinine	15 yrs and older	Males: 17–83 mmol/g creatinine Females: 19–96 mmol/g creatinine	Potassium Urine, 24 hr	6–10 yrs	Males: 17–54 mmol/24 hr Females: 8–37 mmol/24 hr	11–14 yrs	Males: 22–57 mmol/24 hr Females: 18–58 mmol/24 hr	15 yrs and older	Males and females: 25–125 mmol/24 hr, level varies with diet
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Protein, Total, Serum	500644	<p>Specimen Serum or EDTA plasma</p> <p>Methodology Colorimetric</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td><7 mos</td> <td>4.6–7.2 g/dL</td> </tr> <tr> <td>7 mos–1 yr</td> <td>5.7–8.2 g/dL</td> </tr> <tr> <td>1 yr and older</td> <td>6.0–8.5 g/dL</td> </tr> </tbody> </table>	Age	Reference Interval	<7 mos	4.6–7.2 g/dL	7 mos–1 yr	5.7–8.2 g/dL	1 yr and older	6.0–8.5 g/dL												
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Protein, Total, Urine	500712	<p>Volume 50 mL</p> <p>Minimum Volume 1 mL</p> <p>Methodology Colorimetric</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Protein, Total, Urine, Random</td> <td>Males and females: <15.1 mg/dL</td> </tr> <tr> <td>Protein, Total, Urine, 24 hr</td> <td>Males and females: <150 mg/24 hr</td> </tr> </tbody> </table>	Test	Reference Interval	Protein, Total, Urine, Random	Males and females: <15.1 mg/dL	Protein, Total, Urine, 24 hr	Males and females: <150 mg/24 hr														
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Prothrombin Time Mixing Studies: PT, PT 1:1 NP, PT 1:1 NP 60 min. incubation, PT 1:1 NP 60 min. incubation control	300116	<p>Additional Information Changes implemented on August 13, 2010</p> <p>Reference Interval PT 1:1 NP=11.0–14.0 seconds</p>																				
Sodium	500639	<p>Methodology Ion-selective electrodes direct</p> <p>Reference Interval Children and adults: 135–145 mmol/L</p>																				
Sodium, Urine	500381	<p>Volume 10mL</p> <p>Minimum Volume 1 mL</p> <p>Methodology Ion-selective electrodes direct</p> <p>Additional Information New Sodium Urine, Random reporting unit=mmol/L. New Sodium Urine/Creatinine Ratio. New Sodium Urine, 24 hr reporting unit=mmol/24hr.</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Sodium Urine, Random</td> <td>Not determined</td> </tr> <tr> <td rowspan="2">Sodium Urine/ Creatinine Ratio</td> <td>Males: 27–147 mmol/g creatinine Females: 31–169 mmol/g creatinine</td> </tr> <tr> <td>Sodium Urine, 24 hr</td> <td>Males and females: 40–220 mmol/24hr</td> </tr> </tbody> </table>	Test	Reference Interval	Sodium Urine, Random	Not determined	Sodium Urine/ Creatinine Ratio	Males: 27–147 mmol/g creatinine Females: 31–169 mmol/g creatinine	Sodium Urine, 24 hr	Males and females: 40–220 mmol/24hr												
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Total Iron Binding Capacity	500707	<p>CPT: 83540, 83550</p> <p>Additional Information: Now includes Iron Saturation (no change to billing)</p> <p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Unbound Iron Binding Capacity</td> <td>All ages: 150–375 µg/dL</td> </tr> <tr> <td>Total Iron Binding Capacity</td> <td>All ages: 250–450 µg/dL</td> </tr> <tr> <td rowspan="3">Iron</td> <td>< 4 yrs: 40–130 µg/dL 4–9 yrs: 40–150 µg/dL 10 yrs and older: Males 61–157 µg/dL, Females 37–145 µg/dL</td> </tr> <tr> <td>Iron Saturation</td> <td>All ages: 15%–55% saturation</td> </tr> </tbody> </table>	Test	Reference Interval	Unbound Iron Binding Capacity	All ages: 150–375 µg/dL	Total Iron Binding Capacity	All ages: 250–450 µg/dL	Iron	< 4 yrs: 40–130 µg/dL 4–9 yrs: 40–150 µg/dL 10 yrs and older: Males 61–157 µg/dL, Females 37–145 µg/dL	Iron Saturation	All ages: 15%–55% saturation										
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	Transferrin	500772	<p>Specimen Serum or heparin plasma</p> <p>Methodology Immunoturbidimetric</p> <p>Reference Interval Children and adults: 200–370 mg/dL</p>																			

Test Name	N°	Field/Change (Only fields that change are included here.)																		
Transferrin Saturation, Serum	500745	<p>Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Transferrin</td> <td>All ages: 200–370 mg/dL</td> </tr> <tr> <td rowspan="3">Iron</td> <td>< 4 yrs: 40–130 µg/dL</td> </tr> <tr> <td>4–9 yrs: 40–150 µg/dL</td> </tr> <tr> <td>10 yrs and older: Males 61–157 µg/dL, Females 37–145 µg/dL</td> </tr> <tr> <td>Transferrin Saturation</td> <td>15%–55% saturation</td> </tr> </tbody> </table>	Test	Reference Interval	Transferrin	All ages: 200–370 mg/dL	Iron	< 4 yrs: 40–130 µg/dL	4–9 yrs: 40–150 µg/dL	10 yrs and older: Males 61–157 µg/dL, Females 37–145 µg/dL	Transferrin Saturation	15%–55% saturation								
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Transferrin Saturation	15%–55% saturation																			
Triglycerides	500603	<p>Specimen Serum or EDTA plasma Methodology Enzymatic, colorimetric Reference Interval Adults: <150 mg/dL</p>																		
Urea Nitrogen, Blood	500636	<p>Methodology Enzymatic Reference Interval</p> <table border="1"> <thead> <tr> <th>Age</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td><1 yr</td> <td>4–19 mg/dL</td> </tr> <tr> <td>1–17 yrs</td> <td>5–18 mg/dL</td> </tr> <tr> <td>18–60 yrs</td> <td>6–20 mg/dL</td> </tr> <tr> <td>61 yrs and older</td> <td>8–23 mg/dL</td> </tr> </tbody> </table>	Age	Reference Interval	<1 yr	4–19 mg/dL	1–17 yrs	5–18 mg/dL	18–60 yrs	6–20 mg/dL	61 yrs and older	8–23 mg/dL								
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Urea Nitrogen, Urine	501426	<p>Volume 10 mL Minimum Volume 1 mL Methodology Enzymatic Additional Information New Urea Nitrogen Urine 24 hr reporting unit=mg/24hr Reference Interval</p> <table border="1"> <thead> <tr> <th>Test</th> <th>Reference Interval</th> </tr> </thead> <tbody> <tr> <td>Urea Nitrogen Urine, Random</td> <td>Not determined</td> </tr> <tr> <td>Urea Nitrogen Urine/ Creatinine Ratio</td> <td>Males: 8000–13,300 mg/g creatinine Females: 9200–15,400 mg/g creatinine</td> </tr> <tr> <td>Urea Nitrogen Urine, 24 hr</td> <td>Males and females: 12,000–20,000 mg/24hr</td> </tr> </tbody> </table>	Test	Reference Interval	Urea Nitrogen Urine, Random	Not determined	Urea Nitrogen Urine/ Creatinine Ratio	Males: 8000–13,300 mg/g creatinine Females: 9200–15,400 mg/g creatinine	Urea Nitrogen Urine, 24 hr	Males and females: 12,000–20,000 mg/24hr										
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Uric Acid	500643	<p>Specimen Serum or heparin plasma Methodology Enzymatic, colorimetric Reference Interval Children and adults: 2.4–8.2 mg/dL</p>																		
Uric Acid, Urine	501423	<p>Volume 10 mL Minimum Volume 1 mL Methodology Enzymatic, colorimetric Reference Interval</p> <table border="1"> <thead> <tr> <th rowspan="2">Test</th> <th colspan="2">Reference Interval</th> </tr> <tr> <th>Males</th> <th>Females</th> </tr> </thead> <tbody> <tr> <td>Uric Acid Urine, Random</td> <td><269 mg/dL</td> <td><269 mg/dL</td> </tr> <tr> <td>Uric Acid Urine/ Creatinine Ratio</td> <td>167–500 mg/g creatinine</td> <td>192–577 mg/g creatinine</td> </tr> <tr> <td rowspan="3">Uric Acid Urine, 24 hr</td> <td>Average diet: 250–750 mg/24hr</td> <td>Average diet: 250–750 mg/24hr</td> </tr> <tr> <td>Low purine diet: <480 mg/24hr</td> <td>Low purine diet: <400 mg/24hr</td> </tr> <tr> <td>High-purine diet: <1000 mg/24 hr</td> <td>High-purine diet: <1000 mg/24 hr</td> </tr> </tbody> </table>	Test	Reference Interval		Males	Females	Uric Acid Urine, Random	<269 mg/dL	<269 mg/dL	Uric Acid Urine/ Creatinine Ratio	167–500 mg/g creatinine	192–577 mg/g creatinine	Uric Acid Urine, 24 hr	Average diet: 250–750 mg/24hr	Average diet: 250–750 mg/24hr	Low purine diet: <480 mg/24hr	Low purine diet: <400 mg/24hr	High-purine diet: <1000 mg/24 hr	High-purine diet: <1000 mg/24 hr
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