

MULTIPLE CHANGES

NOTIFICATION DATE: December 23, 2010

EFFECTIVE DATE: January 25, 2011

Methemoglobinemia Evaluation #84159

EXPLANATION: #84159, Methemoglobinemia Evaluation will undergo multiple changes effective January 25, 2011.

- #81509, Globin Chain Electrophoresis will be removed as a possible reflex test
- #81510, Agar Electrophoresis Confirms will be removed as a possible reflex test
- #60268, Hemoglobin Variant Analysis by Mass Spectrometry will be added as a possible reflex test
- #83341, Hemoglobin A2 and F will undergo reference value changes
- #81428, Hemoglobin Electrophoresis, Blood will undergo reference value change
- #29374, HGB Electrophoresis Cascade, Level 3 will undergo a name change to HGB Electrophoresis, Molecular
- #29374, HGB Electrophoresis, Molecular will undergo a fee structure change with pricing attached at the profile level, versus the individual profile components

New Profile Information:

Unit Code	Reporting Name	Available Separately	Always Performed
586	Methemoglobinemia Interpretation	No	Yes
83341	Hemoglobin A2 and F	Yes	Yes
81428	Hemoglobin Electrophoresis, B	No	Yes
80200	Methemoglobin, B	Yes (order #81032)	Yes
8272	Sulphemoglobin, B	Yes (order #81032)	Yes
9325	Hemoglobin Spectral Absorbance	No	Yes
9322	Methemoglobin Reductase, B	Yes	Yes

New Reflex Tests:

Unit Code	Reporting Name	Available Separately	Always Performed
9180	Hemoglobin S, Scrn, B	Yes	No
9095	Hemoglobin, Unstable, B	Yes	No
81644	IEF Confirms	No	No
8270	Hemoglobin F, Red Cell Distrib, B	Yes	No
60286	Hb Variant by Mass Spec	No	No
29374	HGB Electrophoresis, Molecular	No	No

CURRENT REFERENCE VALUES:

HEMOGLOBIN A

0-30 days: 10-40% *
1-14 months: Adult values attained by 6 months. *
> or = 15 months: 95-98%

HEMOGLOBIN A2

0-30 days: <1%*
1-11 months: Adult values attained by 12 months.*
> or =1 year: 2.0-3.3%

HEMOGLOBIN F

0-30 days: 60-90%*
1-23 months: Adult values attained by 24 months.*
> or =24 months: 0-2%

*Altman PL, Katz DD: Human Health and Disease. Bethesda, MD, Federation of American Societies for Experimental Biology, 1977

NEW REFERENCE VALUES:

HEMOGLOBIN A

1-30 days: 5.9-77.2%
1-2 months: 7.9-92.4%
3-5 months: 54.7-97.1%
6-8 months: 80.0-98.0%
9-12 months: 86.2-98.0%
13-17 months: 88.8-98.0%
18-23 months: 90.4-98.0%
> or =24 months: 95.8-98.0%

HEMOGLOBIN A2

1-30 days: 0.0-2.1%
1-2 months: 0.0-2.6%
3-5 months: 1.3-3.1%
> or =6 months: 2.0-3.3%

HEMOGLOBIN F

1-30 days: 22.8-92.0%
1-2 months: 7.6-89.8%
3-5 months: 1.6-42.2%
6-8 months: 0.0-16.7%
9-12 months: 0.0-10.5%
13-17 months: 0.0-7.9%
18-23 months: 0.0-6.3%
> or =24 months: 0.0-0.9%

LIST FEE: \$881.00

The following test(s) may be added per the testing algorithm:
\$153.10 for #8270 "Hemoglobin F, Red Cell Distribution, Blood"
\$125.00 for #9095 "Hemoglobin, Unstable, Blood"
\$ 84.20 for #9180 "Hemoglobin S, Screen, Blood"
\$118.00 for #60286 "Hemoglobin Variant by Mass Spectroscopy, Blood"
\$ 52.60 for #81644 "IEF Confirms"
\$350.00 for #29374 "Hemoglobin Electrophoresis, Molecular"

CPT CODE:

"Methemoglobinemia Evaluation"

82657-Methemoglobin reductase

83020-Hemoglobin electrophoresis

83021-Hemoglobin A2 and F

83050-Methemoglobin, quantitative

83060-Sulfhemoglobin, quantitative

84311-Hemoglobin spectroabsorbance curve

"IEF Confirms"

82664-Isoelectric focusing (if appropriate)

"Hemoglobin, Unstable, Blood"

83068 (if appropriate)

"Hemoglobin Variant by Mass Spectrometry (MS), Blood"

83789 (if appropriate)

"Hemoglobin Electrophoresis, Molecular"

83891-Isolation or extraction of highly purified nucleic acid (if appropriate)

83898 x 4-Amplification, target, each nucleic acid sequence (if appropriate)

83900-Amplification, target, multiplex, first 2 nucleic acid sequences (if appropriate)

83904 x 12-Mutation identification by sequencing, single segment, each segment (if appropriate)

83909 x 13-Separation and identification by high-resolution technique (if appropriate)

83914 x 8-Mutation identification by enzymatic ligation or primer extension, single segment, each segment (if appropriate)

"Hemoglobin S, Screen, Blood"

85660 (if appropriate)

"Hemoglobin F, Red Cell Distribution, Blood"

88184 (if appropriate)

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or
Julie Breider, MML Laboratory Technologist Resource Coordinator
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