

MGHS Test Change Implementation Notice

Effective immediately or as otherwise noted

Test Changes

H. PYLORI (IGG)

Marquette General Health System

General Info

Alpha Code	HPYL
MGH LIS Test No	826
Schedule	Monday, Wednesday, Friday
Testing Time	1 day
Testing Lab	Marquette General Hospital
QORR Test Code	HPYL

Reference Range

Reference Values	Interpretation
0.00 - 0.88	Negative
0.89 - 0.99	Equivocal
>= 1.00	Positive

*Reference Range Change.

LACTATE DEHYDROGENASE (LDH) ISOENZYMES, SERUM

Marquette General Health System

General Info

Alpha Code	LDISO
MGH LIS Test No	8024
Schedule	M,W,F
Testing Time	1 to 4 Days
Testing Lab	Warde Medical Laboratories
QORR Test Code	LDISO

Specimen Info

Type	1 SST Tube
Volume	2 mL (1.0 mL Min)
Temperature	Ambient
Collection Info	Do not refrigerate or freeze. Centrifuge and separate serum. Store at ambient temperature for up to 5 days.

Specimen Acceptability

Avoid Hemolysis. Icteric and lipemic samples are not acceptable.

Methods

Agarose Electrophoresis, Kinetic Spectrophotometry

Clinical Utilities

The LD isoenzyme pattern is useful to evaluate the source of elevated LD activity. LD isoenzyme elevation associations: LD1: germ cell tumors; LD1>LD2: renal or myocardial infarction, megaloblastic anemia, hemolysis; LD3: platelet destruction, reactive, lymphadenopathy, lymphoma, lymphocytosis, pulmonary infarction, pneumonia, advanced cancer, acute pancreatitis; LD4, LD5: various solid tumors; LD5: primary liver disease, liver anoxia, muscle injury or dystrophy; All forms: renal disease, carcinomatosis, collagen vascular disease, overwhelming sepsis, DIC.

Component Information

Name/Component	LDH TOTAL (%LD1)
Method	KS
CPT Code	83615
Units	U/L
Ref Range	>= 19 Years: 80-170
Name/Component	LD ISOENZYME 1 (%LD1)
Method	AE
CPT Code	83625
Units	% of Total
Ref Range	16-32
Name/Component	LD ISOENZYME 2 (%LD2)
Method	AE
CPT Code	83625
Units	% of Total
Ref Range	32-50
Name/Component	LD ISOENZYME 3 (%LD3)
Method	AE

CPT Code	83625
Units	% of Total
Ref Range	17-27
Name/Component	LD ISOENZYM 4 (%LD4)
Method	AE
CPT Code	83625
Units	% of Total
Ref Range	6-13
Name/Component	LD ISOENZYM 5 (%LD5)
Method	AE
CPT Code	83265
Units	% of Total
Ref Range	3-12

*Test replaces LDISO previously done at MGHS. Client price will not change.

CHROMIUM, SERUM

Marquette General Health System

General Info

Alpha Code	CHRS
MGH LIS Test No	579
QORR Test Code	CHRS

Reference Range

<0.3 ng/mL

*Unit change.

THIOPURINE METHYLTRANSFERASE (TPMT), ERYTHROCYTES

Marquette General Health System

General Info

Alpha Code	TPMTE
MGH LIS Test No	9194

Reference Range

>17.0 U/mL RBC (normal)
 11.9-17.0 U/mL RBC (ambiguous range)
 15.4-17.0 U/mL RBC (probable low normal)
 11.9-15.3 U/mL RBC (possible carrier)
 6.0-11.8 U/mL RBC (carrier range)
 0.0-5.9 U/mL RBC (homozygous deficient range)

Reference values apply to all ages.

*Reference Range Change.

TRIIODOTHYRONINE, REVERSE (RT3)

Marquette General Health System

General Info

Alpha Code	T3REV
MGH LIS Test No	9574
Schedule	Tues and Friday
Testing Time	1 to 5 Days
Testing Lab	Specialty Labs, Inc.
QORR Test Code	T3REV

Specimen Info

Type	Serum
Volume	1 mL (0.2 Min)
Temperature	Refrigerate
Preservative	
Collection Info	

Specimen Acceptability

Methods

RIA

Clinical Utilities

Thyroid function test; diagnose hypothyroidism or hyperthyroidism in conjunction with T4 result. Acute or chronic stress or illness favors the formation of RT3 (rather than T3); whereas, T4 concentrations remain essentially unchanged. RT3 and T4 concentrations are low in hypothyroidism

and high in hyperthyroidism. Because caloric deprivation (fasting) and many systemic diseases involving fever usually result in higher RT3 concentrations, RT3 is useful in the diagnosis of the "sick euthyroid" syndrome.

CPT Codes
84482

Reference Range
90 - 350 pg/mL

*Test Replaces T9574 previously sent to Mayo. Reference Clients please call for pricing.

LIPOPROTEIN PROFILE WITH LDL AND HDL PARTICLE CONCENTRATION, PLASMA
Marquette General Health System

General Info

Alpha Code	LPPAR
MGH LIS Test No	1714
Testing Time	Monday - Friday
Testing Lab	Mayo Labs
QORR Test Code	LLPAR

Specimen Info

Type	1 Lavender Top
Volume	1 mL EDTA Plasma
Temperature	Refrigerate
Collection Info	Draw blood in a lavender-top (EDTA) tube(s) following an overnight (12-14 hour) fast. Patient must not consume any alcohol for 24 hours before the specimen is drawn. Spin down and send 1 mL of EDTA plasma refrigerated.

Methods

Nuclear Magnetic Resonance (NMR)

CPT Codes
83704

Reference Range

TOTAL LDL PARTICLE CONCENTRATION
< or =15 years: not established
Adult (> or =16 years):
<1,000 nmol/L (optimal)
1,000-1,299 nmol/L (near or above optimal)
1,300-1,599 nmol/L (borderline high)
1,600-2,000 nmol/L (high)
>2,000 nmol/L (very high)

SMALL LDL PARTICLE CONCENTRATION
< or =15 years: not established
Adult (> or =16 years):
<600 nmol/L (optimal)
600-899 nmol/L (near or above optimal)
900-1,199 nmol/L (borderline high)
1,200-1,500 nmol/L (high)
>1,500 nmol/L (very high)

TOTAL HDL PARTICLE CONCENTRATION
< or =15 years: not established
Adult (> or =16 years):
<23 umol/L (low)
23-40 umol/L (intermediate)
>40 umol/L (optimal)

LARGE HDL PARTICLE CONCENTRATION
< or =15 years: not established
Adult (> or =16 years):
<4.0 umol/L (low)
4.0-9.0 umol/L (intermediate)
>9.0 umol/L (optimal)

This testing should be interpreted within the context of a standard lipid profile (total cholesterol, triglyceride, HDL cholesterol, and calculated LDL cholesterol).

Component Information

Name/Component	INTERPRETATION (INTRP)
Name/Component	TOTAL LDL PARTICLE (TLDL)
Method	NMR
Units	NMOL/L
Name/Component	SMALL LDL PARTICLE (SLDL)
Method	NMR
Units	NMOL/L
Name/Component	TOTAL HDL PARTICLE (THDL)
Method	NMR
Units	UMOL/L
Name/Component	LARGE HDL PARTICLE (LHDL)
Method	NMR
Units	UMOL/L

*Test Is the recommended alternative to obsolete test code LDLS (LDL Subfractionation) MGHS #886. Reference Clients please call for pricing.

APOLIPOPROTEIN A-1, PLASMA
Marquette General Health System

General Info

Alpha Code	APOA
MGH LIS Test No	726

Reference Range

Males and females > or = 18: 106-220 mg/dL

*Reference Range Change.