

## CHEMISTRY INDICES

 St. Joseph Medical Center, Tacoma, WA  
 St. Francis Hospital, Federal Way, WA  
 St. Clare Hospital Lakewood, WA

 St. Anthony Hospital Gig Harbor, WA  
 St. Elizabeth Hospital Enumclaw, WA  
 Highline Medical Center Burien, WA

 Harrison Medical Center, Bremerton, WA  
 Harrison Medical Center, Silverdale, WA  
 PSC

	LIS Mnemonic	INDEX or Flag	INCREASED (Tests)	DECREASED (Tests)
<b>HEMOLYSIS</b>				
No hemolysis	None	0 – 1	None	None
50-100 mg/dL	Slight	2	ALT, AMM, AST, CK, FOLW, FE, LD, K, VITB12	None
101-200 mg/dL	Moderate	3 to 4	ALT, AMM, AST, CK, FOLW, FE, LD, K, PHOS, TBIL, VITB12	DBIL
201-300 mg/dL	Marked	5 to 6	ALT, AMM, AMY, AST, BOHB, CK, FOLW, FE, LD, LIP, LI, MG, PHOS, K, TBIL, VITB12	DBIL
301-500 mg/dL	Gross	7 to 10	ALT, AMM, AMY, AST, BOHB, CK, FER, FOLW, FE(IRON), LD, LACT, LIP, LI, MG, PHOS, K, SALY, TBIL, TG URIC, VITB12, VITD 25(OH) <ul style="list-style-type: none"> <li>Reject values, redraw/cancel/credit test(s).</li> <li>Use HEMOLYZED cancel reason.</li> <li>Notify provider/unit, request recollection.</li> </ul>	ALP DBIL GGT
		DH flag	For "DH" flag - Reject values. Redraw/cancel/credit test(s) using Hemolyzed cancel reason. Same tests affected as gross hemolysis.	
<b>LIPEMIA</b>				
No lipemia	None	0-1	none	none
0-80 mg/dL	Slight	2 to 3	AMM, CRP*	none
81-200 mg/dl	Moderate	4 to 6	AMM, CRP*, FE, PAB, SALY, URIC, VPA	TBIL, TP
201-320mg/dl	Marked	7 to 8	ALB, ALT, AMM, AST, BUN, CA, CAR, CL, CK, CO2, CRE, CRP*, FE, GLU, LIP, MG, NA, PAB, SALY, THEO, URIC, VPA	TBIL, TP
321-400 mg/dl	Gross	9 to 10	ALB, ALT, AMM, AST, BUN, CALC, CAR, CL, CK, CO2, CRE, CRP*, FE, GENT, GGT, GLU, LIP, LI, MG, NA, PAB, SALY, THEO, URIC, VPA <ul style="list-style-type: none"> <li>Airfuge sample</li> <li>Report Lipemia from original sample</li> <li>See additional information below</li> </ul>	DBIL, TBIL, TP
		DH flag	For "DH" flag – report as 10 in Remisol or GROSS in the LIS. Airfuge sample.	

### **SLIGHT HEMOLYSIS –Mnemonic- Slightly Hemolyzed (FHS)**

*Specimen is SLIGHTLY HEMOLYZED.*

*The following tests may be increased due to hemolysis: ALT, Ammonia, AST, CK, Folate, Iron, LDH, Potassium and Vitamin B12.*

### **MODERATE HEMOLYSIS –Mnemonic- Moderately Hemolyzed (FHS)**

*Specimen is MODERATELY HEMOLYZED. Consider redraw of sample if clinically appropriate.*

*The following tests may be increased due to hemolysis: ALT, Ammonia, AST, CK, Folate, Iron, Phosphorus, Potassium, LDH, Total Bilirubin and Vitamin B12. Direct Bilirubin may be decreased.*

### **MARKED HEMOLYSIS –Mnemonic- Markedly Hemolyzed (FHS)**

*Specimen is MARKEDLY HEMOLYZED. Recollection of sample is recommended.*

*The following tests may be increased due to hemolysis: ALT, Ammonia, Amylase, AST, Beta-Hydroxybutyrate, CK, Folate, Iron, LDH, Lipase, Lithium, Magnesium, Phosphorus, Potassium, Total Bilirubin and Vitamin B12. Direct Bili may be decreased.*

### **GROSS HEMOLYSIS –Mnemonic- Grossly Hemolyzed (FHS)**

The following tests should be rejected and deleted and a new sample requested. The Gross Hemolyzed mnemonic can be used to further clarify.

*Specimen is GROSSLY HEMOLYZED and the following tests cannot be completed. Recollection of sample is indicated. The following tests may be increased due to hemolysis: ALT, Ammonia, Amylase, AST, Beta-Hydroxybutyrate, CK, Ferritin, Folate, Iron, LDH, Lactate, Lipase, Lithium, Magnesium, Phosphorus, Potassium, Salicylate, Total Bilirubin, Triglyceride, Vitamin B12, Vitamin D25(OH) and Uric Acid. Alkaline Phosphatase, Direct Bilirubin and GGT may be decreased.*

### **SLIGHT LIPEMIA –Mnemonic- Slightly Lipemic (FHS)**

Specimen is SLIGHTLY LIPEMIC and test results may be affected

### **MODERATE LIPEMIA –Mnemonic- Moderately Lipemic (FHS)**

Specimen is MODERATELY LIPEMIC. Results may be affected.

### **MARKED LIPEMIA –Mnemonic- Markedly Lipemic (FHS)**

Specimen is MARKEDLY LIPEMIC. Results may be affected.

### **GROSS LIPEMIA –Mnemonic- Grossly Lipemic (FHS)**

Specimen is GROSSLY LIPEMIC. Results may be affected.

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## RELATED DOCUMENTS

M-F-CH-1940 DXC 600 (AMR) Analytical Measurement Range  
J-F-CH-1940 DXC 800 (AMR) Analytical Measurement Range  
Handling Lipemic Chemistry Samples

## ADDITIONAL INFORMATION

- For more detailed information on DXC 600/800 and DXI systems, refer to appropriate work instruction.
- \*CRP- lipemia index  $\geq 2$  —send out to reference lab
- For lipemic samples with indices  $\geq 4$ , use Stat-Spin, Air-fuge or Ultracentrifuge, see analyte specific procedure and/or Handling Lipemic Chemistry Samples procedure. Add chartable comment .AIRF “Specimen lipemic. Analysis was performed on clarified specimen, except for lipids.”

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