



LAB ALERT

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RL

Pathology and Laboratory Medicine

New Testing Platform: GEM7000 Blood Gas Analyzer

Facility: BMC & JMC

BMC and JMC are replacing the current blood gas analyzers with new GEM7000 instruments. The technology is similar to the outgoing GEM5000 with the same reference ranges that were previously standardized across the WVU Health System.

However, new for the GEM7000 is the reporting of a hemolysis index to inform when samples are compromised by hemolysis. Epic comments for hemolysis are as follows:

MILD HEMOLYSIS

Hemolysis Comment: Hemolysis can mildly alter potassium results at this level.

Potassium Comment: Potassium result is mildly altered due to hemolysis.

MODERATE HEMOLYSIS

Hemolysis Comment: Hemolysis can moderately alter potassium results at this level; repeat testing with new specimen suggested.

Potassium Comment: Potassium result is moderately altered due to hemolysis; repeat testing with new specimen suggested.

MARKED HEMOLYSIS

Hemolysis Comment: Hemolysis can markedly alter potassium results at this level; repeat testing with new specimen suggested.

Potassium Comment: Potassium result is markedly altered due to hemolysis; repeat testing with new specimen suggested.

*For questions call BMC Lab at 304-264-1212, option #7, or JMC Lab at 304-728-1759

Effective Date: 01/20/2026