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**Overview****Useful For**

Incorporating and summarizing subsequent results into an overall evaluation if 1 or more molecular tests are reflexed on the HAEV1 / Hemolytic Anemia Evaluation, Blood panel

**Testing Algorithm**

This test is an additional consultative interpretation that summarizes all testing as well as any pertinent clinical information, and will be provided after all tests are completed to incorporate subsequent results into an overall evaluation if 1 or more of the following molecular tests are reflexed on the HAEV1 / Hemolytic Anemia Evaluation, Blood:

- ATHAL / Alpha-Globin Gene Analysis, Varies
- WASQR / Alpha-Globin Gene Sequencing, Blood
- WBSQR / Beta-Globin Gene Sequencing, Blood
- WBDDR / Beta-Globin Cluster Locus Deletion/Duplication, Blood
- WGSQR / Gamma-Globin Full Gene Sequencing, Varies

This summary is in addition to interpretations that may be provided for individual components.

**Method Name**

Only orderable as a reflex. For more information see HAEV1 / Hemolytic Anemia Evaluation, Blood.

Medical Interpretation

**NY State Available**

Yes

**Specimen****Specimen Type**

Whole Blood EDTA

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated (preferred)		

**Clinical & Interpretive****Clinical Information**

The evaluation of patients with hemolytic anemia can be very complex and involves incorporation of not only testing, but integration of clinical and peripheral blood findings. Nonimmune hemolytic anemia can be due to many causes, including abnormalities in the hemoglobin molecule, RBC membrane/cytoskeleton, or RBC enzyme cascade. If the evaluation of nonimmune hemolytic anemia utilizes the reflex molecular tests, a summary interpretation will be added to summarize the genetic, protein, peripheral blood, and clinical findings (if provided) will be added. This is beneficial to the ordering provider.

**Reference Values**

Only orderable as a reflex. For more information see HAEV1 / Hemolytic Anemia Evaluation, Blood.

An interpretation report will be provided.

**Interpretation**

An interpretive report will be provided that summarizes all testing as well as any pertinent clinical information.

**Cautions**

No significant cautionary statements

**Clinical Reference**

1. Steiner LA, Gallagher PG: Erythrocyte disorders in the perinatal period. *Semin Perinatol*. 2007 Aug;31(4):254-261
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4. King MJ, Garcon L, Hoyer JD, et al, International Council for Standardization in Haematology: ICSH guidelines for the laboratory diagnosis of nonimmune hereditary red cell membrane disorders. *Int J Lab Hematol*. 2015 Jun;37(3):304-325
5. Lux SE: Anatomy of the red cell membrane skeleton: unanswered questions. *Blood*. 2016 Jan 14;127(2):187-199 doi: 10.1182/blood-2014-12-512772

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6. Gallagher PG: Abnormalities of the erythrocyte membrane. *Pediatr Clin North Am*. 2013 Dec;60(6):1349-1362
  7. Bianchi P, Fermo E, Vercellati C, et al: Diagnostic power of laboratory tests for hereditary spherocytosis: a comparison study in 150 patients grouped according to molecular and clinical characteristics. *Haematologica*. 2012 Apr;97(4):516-523
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  12. Hein MS, Oliveira JL, Swanson KC, et al: Large deletions involving the beta globin gene complex: genotype-phenotype correlation of 119 cases. *Blood*. 2015;126:3374
  13. Gallagher PG: Diagnosis and management of rare congenital nonimmune hemolytic disease. *Hematology Am Soc Hematol Educ Program*. 2015; 2015:392-399
  14. Koralkova P, van Solinge WW, van Wijk R: Rare hereditary red blood cell enzymopathies associated with hemolytic anemia - pathophysiology, clinical aspects, and laboratory diagnosis. *Int J Lab Hematol*. 2014 Jun;36(3):388-397

## Performance

### Method Description

A hematopathologist evaluates all of the testing performed and a summary interpretive report is added.

### PDF Report

No

### Specimen Retention Time

28 days

### Performing Laboratory Location

Rochester

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**Fees & Codes****Test Classification**

Not Applicable

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
HAEV0	Hemolytic Anemia Summary Interp	In Process

Result ID	Reporting Name	LOINC®
608090	Hemolytic Anemia Summary Interp	14869-2
608115	Reviewed By	18771-6