

Laboratory Bulletin

Date: April 24, 2014

To: Edmonton Zone, North Zone and Central Zone

Physicians, Nurse Managers, Laboratory Directors and Managers

From: AHS Laboratory Services – University of Alberta Hospital (UAH)

Re: Lysosomal Storage Disorder Enzyme Testing Temporarily Unavailable at the

UAH Laboratory

PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

Key Messages:

- Due to instrument failure, lysosomal storage disorder enzyme activity testing for Tay-Sachs, Sandhoff, Fabry, Gaucher, GM1 Gangliosidosis, and Pompe performed at the UAH Newborn Screening & Biochemical Genetics Lab in Edmonton will be temporarily unavailable.
- This change is effective immediately.
- In the interim, samples collected for serum hexosaminidase will be referred out to the Alberta Children's Hospital Biochemical Genetics Laboratory in Calgary. Enzyme testing for Fabry (alpha galactosidase), Gaucher (beta glucosidase), GM1 Gangliosidosis (beta galactosidase), and Pompe disease (alpha glucosidase) will be referred out to a reference lab in Ontario.
- Interpretive reports from the referral laboratories including reference intervals will be mailed to the ordering and "copy to" physicians. Turnaround times are expected to be within 1 month.

Why this is important:

- Lysosomal enzyme activity assays help establish the diagnosis of lysosomal storage disorders.
- Sample collection and handling requirements will change to accommodate the needs of the referral laboratories performing these tests.
- Appropriate specimen collection and handling is crucial in ensuring optimal specimen volume, quality specimens, and timely reporting of accurate laboratory test results.

Action Required:

If Clinical Suspicion for	Indicate on Requisition/Card	Provide
Tay-Sachs or Sandhoff	Hexosaminidase	Detailed patient history
Disease		
Pompe Disease	Pompe Disease	Patient with instructions to have
		bloodspot collection done between
		Monday and Wednesday
Fabry Disease	Alpha galactosidase	Detailed patient history
Gaucher Disease	Beta glucosidase	Patient with instructions to have blood
GM1 Gangliosidosis	Beta galactosidase	collection done between Monday and
		Friday before noon



Additional information:

Alberta Health Services Edmonton Zone Test Directory

For questions and feedback contact:

- Edmonton Client Response Centre at :780-407-7484
- Dr. Kareena Schnabl, Clinical Biochemist, UAH Laboratory at: 780-407-3186.

This bulletin has been reviewed and approved by:

Dr. Carolyn O'Hara, Medical/Scientific Director and Zone Clinical Department Head, AHS Laboratory Services, Edmonton Zone