

LabMed Report

A publication of:
Munson Healthcare Laboratories
Grand Traverse Pathology, PC
Physicians Diagnostic Support Service

In this issue: Electronic Crossmatch and ABO verification and history check

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**Electronic (computer) crossmatching to begin at Munson Medical Center on
December 13,2021
Re-issuing communication on ABO verification and history check (including second draw)**

Electronic crossmatch

CLINICAL SIGNIFICANCE:

Eliminating serological testing when performing a crossmatch reduces the turnaround time for compatible units for transfusion.

PRINCIPLE:

A computer crossmatch is an electronic method that is used to confirm that the unit is appropriate for transfusion to the intended recipient through the use of validated software logic to determine compatibility, rather than through the use of serological techniques.

The Computer crossmatch, AKA "Electronic Crossmatch or EXM", can be performed when:

- The patient has two, separate confirmed ABO types on file from separate collect times
- The patient has a current negative antibody screen
- The patient has no previous clinically significant antibodies identified

The GTAB used for the electronic crossmatch must be done on a current specimen (within the acceptable specimen expiration).

Notes:

1. When the computer system is not functioning or in a downtime procedure, a serological (immediate spin / extended) crossmatch must be performed.
2. In the event of an ABO discrepancy, a serological crossmatch must be performed and group O cells to be given until discrepancy is resolved.
3. If the patient has a history of a Bone Marrow Transplant, a serological crossmatch must be performed.

Additionally, this report includes information from the April 2021 report about ABO verification and history check as this topic.

Munson Medical Center (MMC), in order to meet new FDA/AABB requirements, is updating how we perform history checks and ABO verifications on a patient drawn for Blood Bank testing. MMC will perform two determinations of a patients ABO group as defined by AABB standard 5.14.1.

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The first determination will be performed on a current sample, and the second determination will be performed by one of the following two methods:

- 1) Comparison with previous records currently on file at Munson Medical Center (History Check)
- 2) Testing a second sample collected at a time different from the first sample, including a new verification of patient identification which includes patient name and date of birth.

If a patient does not have a current history at MMC, they will need a second sample to be drawn before type specific ABO red cells will be transfused. In emergent situations, or where there is a discrepancy that is not resolved, type O red cells will be given with pathologist approval.