#### Performing an Electronic Crossmatch

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| Purpose | To provide instructions to perform the electronic crossmatch procedure. The option to use a computer crossmatch is determined by rules established in the computer software. It is not an option that you can manually designate |

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| Policy: | * An electronic crossmatch may be performed when the following conditions are met:
1. Blood type has been confirmed by two determinations
2. Current Antibody screen is negative
3. No history of clinically significant antibodies
4. There are no QA flags on the accession number

\*NOTE: Blood types displayed as Archived Data or under a different medical record number will not be recognized as a determination of blood type. In either of these situations, condition #1 above applies. In cases where Blood Type testing is performed manually, each test must be done by a different CLS. |
|  | * During computer downtime, an immediate spin crossmatch will be performed in place of the electronic crossmatch.
* Amending a reportable patient result may affect the patient’s eligibility for electronic crossmatch. Refer to Amended/Corrected report procedure.
* An immediate spin crossmatch MUST be performed in cases of unresolved mixed field ABORh reactivity or ABO Discrepancy or when switching from “O” to type specific RBC units on children under the age of 12.
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| Procedure: | Follow the steps below to perform an Electronic crossmatch |

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| Step | Action |
| 1. | Evaluate if the patient qualifies for the Electronic Crossmatch (see list of qualifying criteria listed under “Policy.” |
| 2. | Enter blood type and antibody screen results for current specimen using Blood Processing function. |
| 3. | Allocate and select RBC unit(s),then click *SAVE*. |

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| 4. | The “*Electronic Crossmatch Eligibility Report*” window will appear: |
|  |  | If | Then |  |
|  |  | Report lists allocated units as “*Unit(s) to be resulted*” | * Click *OK* to accept electronic crossmatch results. ECMP (Electronically compatible) will automatically be entered for XM result and corresponding issue form will print.
* Subsequent allocations to this specimen will be similarly evaluated for ECMP eligibility. At this time, previously allocated units will also be evaluated again. If previously allocated units are no longer eligible, appropriate testing must be completed prior to issue of product. Locate and remove tags from units and remove them from the crossmatch shelf until testing has been completed.
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|  |  | Report lists allocated units that fail to quality for electronic crossmatch as “*Patient Failure(s) Found*” or “*Unit Error(s) Found*” and lists reasons for electronic crossmatch rejection. | * Click *CANCEL* to reject electronic crossmatch
* “*CAX was canceled, will exit SAVE*” window will appear. Click *OK*
* Check most common error messages in Step #5 to decide course of action.
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| 5. | Use the table below to identify the most common failure/error messages for electronic crossmatch rejection and action required.  |
|  |  | Error message | Then |  |
|  |  | *“Age of current specimen exceeds time frame”* | * Specimen has expired.
* Need current specimen.
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|  |  | *“Current specimen blood type not resulted”* | * Result blood type
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|  |  | *Current specimen not resulted.* | * Result antibody screen.
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|  |  | * *“Clinically significant antibodies on file”*
* *“Clinically significant antibodies on current specimen”*
 | * Not eligible for electronic crossmatch.
* Perform AHG crossmatch.
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|  |  | *‘Current antibody screen result not negative”* | * Not eligible for electronic crossmatch.
* Perform AHG crossmatch.
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|  |  | *Disqualifying QA failures generated.* | * Patient’s current specimen or allocated unit has generated a Quality Assurance failure and failed EXM rule checking.
* Evaluate and complete additional testing.
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|  |  | *No historic blood type on file.* | * Patient needs 2nd blood type.
* Add type confirmation
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| Related Procedures | * Policy Defining Clinically Significant Antibodies
* Confirming a Blood Type on Donor RBC Units
* Performing and ABO Blood Group
* Performing a Rh Blood Type
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