**Purpose**

To provide a guide for resulting tests in Blood Order Processing (BOP)

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| **Battery** | **Tests** | **Description** | | | | | **Result Options** | |
| **Type and Screen (TSCR)**  **&**  **Type and Crossmatch (TXM)** | **UO** | Units Ordered | | | | | * Defaults to none * Can be updated for add-on units in the order | |
| **HXCK** | Patient History Check | | | | | * H—Patient history found applies as follows: * Blood type in the system * Antibody Screen in the system * Any information in the BAD file * Q—No patient history found | |
| **PI** | Physician Instructions | | | | | * Semicolon (;) * Enter free text or add appropriate code.  |  |  | | --- | --- | | IRR | Irradiated | | LKR | Leukoreduced | | WS | Washed | | WRBC | Washed RBCs | | RCWS | Red Cells Washed | | RCWSI | Red Cells Washed Irradiated | | RCWSL | Red Cells Washed Leukoreduced | | RCWSIL | Red Cells Washed Irradiated Leukoreduced |  * Free text if code isn’t available | |
| **ABR** | ABO/Rh (D) | | | | | * Use Reaction Grid found under **Blood Type** for results Interpretation * A for Group A * B for Group B * L for Group AB * O for Group O * P for Rh Positive * N for Rh Negative | |
| **AS** | Antibody Screen | | | | | * Use Reaction Grid found under **Antibody Screen** for results Interpretation * N for Negative * P for Positive | |
| **EXX** | Crossmatch Expiration Date | | | | | * Defaults to 3 day outdate from specimen draw date. Extensions are allowed for qualifying Preadmission orders | |
| **Battery** | **Tests** | | **Description** | | | **Result Options** | | | |
| **Type and Crossmatch (TXM)** | **Crossmatch**  **Electronic** | | XM (crossmatch result) | | | * Leave blank * SAVE * Eligibility Report is viewable; Click OK | | | |
| TS (Transfusion Status) | | |
| **Crossmatch**  **Immediate Spin** | | XM (crossmatch result) | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | 0 | ND | ND | ND |  * Interpretation : **C for Compatible** * ND = Not done  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | **\*** | ND | ND | ND |  * **\*** Any agglutination present * Interpretation: **I for Incompatible** * ND = Not done | | | |
| TS (Transfusion status) | | | * “ **[** “ for OK * “ **]** “ for Not OK | | | |
| **Crossmatch**  **AHG** | | XM (crossmatch result) | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | ND | 0 | 0 | ≥2 |  * Interpretation: **C for Compatible** * ND = Not done  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | ND | 0 | **\*** | ND |  * **\*** Any agglutination present * Interpretation: **I for Incompatible** * ND = Not done  |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | ND | **\*** | ND | ND |  * **\*** Any agglutination present * Interpretation: **I for Incompatible** * ND = Not done | | | |
| **Crossmatch**  **AHG** | | | | Peg XM (crossmatch result) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | XIS | XINC | XAHG | XCC | | Unit # | ND | ND | **\*** | ND/≥2 |  * PEG crossmatch enter only AHG result * Add BBCS to order for immediate spin result and hemolysis check results. | | | |
| **TS** | | | | TS (Transfusion status) | * “ **[** “ for OK * “ **]** “ for Not OK | | | |
| **Unit Test Add-on** | | | | UR (Unit Tag Reprint) | * Transfusion Tag will reprint for the unit to which test UR is added. | | | |
| CM (Unit Tag comment) | * Attach comments to Transfusion Tag. * Used to indicate split RBC * Used to indicate Uncrossmatched RBC | | | |
| AO (Unit Antigen typing | * Enter using appropriate AG code * Limited print on tag to 3 lines * Add additional lines via CM (unit comments) | | | |
| **Battery** | **Tests** | | | | **Description** | **Result Options** | | | |
| **Transfuse Products:**   * **TFFP** * **TPLT** * **TCRY** | **UO** | | | | Units Ordered | * Indicates number of units ordered. * Can be updated for additional orders of same product type | | | |
| **HXCK** | | | | Patient History Check | * H-Patient history found * Q-No patient history found | | | |
| **PI** | | | | Physician Instructions | * ( **;** ) and enter free text. * Defaults to none.  |  |  | | --- | --- | | IRR | Irradiated | | LKR | Leukoreduced | | WS | Washed | | | | |
| **Direct Antiglobulin Test (DAT)** | **HXCK** | | | | Patient History Check | * H-Patient history found * Q-No patient history found | | | |
| **DBS** | | | | DAT, Broad Spectrum Coombs | |  |  |  |  | | --- | --- | --- | --- | |  | DIS | RT | DCC | | Pt | 0 | ND | ≥ 2 | | C | 0 | ND | ND |   Interpretation: **N for Negative**  ND = Not done   |  |  |  |  | | --- | --- | --- | --- | |  | DIS | RT | DCC | | Pt | 0 | 0 | ≥ 2 | | C | 0 | 0 | ND |   Interpretation: **N for Negative**  ND = Not done   |  |  |  |  | | --- | --- | --- | --- | |  | DIS | RT | DCC | | Pt | **\*** | ND | ND | | C | 0 | ND | ND |   **\*** Any agglutination present  Interpretation: **P for Positive**  ND = Not done   |  |  |  |  | | --- | --- | --- | --- | |  | DIS | RT | DCC | | Pt | **\*** | ND | ND | | C | **\*** | ND | ND |   \* Any agglutination Present  “%” for Inconclusive – Needs More Investigation | | | |
| **Add on, if DBS is POS** | **DIG** | | | | DAT, Anti-IgG Coombs | |  |  |  | | --- | --- | --- | |  | DIGG | DCC | | Pt | 0 | ≥ 2 | | C | 0 | ND |   Interpretation: N for Negative   |  |  |  | | --- | --- | --- | |  | DIGG | DCC | | Pt | **\*** | ND | | C | 0 | ND |   **\*** Any agglutination present  Interpretation: **P for Positive**  ND = Not done | | | |
| **DCD** | | | | DAT, Complement | |  |  |  | | --- | --- | --- | |  | RT | DCC | | Pt | 0 | ≥ 2 | | C | 0 | ND |   Interpretation: **N for Negative**  ND = Not done   |  |  |  | | --- | --- | --- | |  | RT | DCC | | Pt | **\*** | ND | | C | 0 | ND |   **\*** Any agglutination present  Interpretation: **P for Positive**  ND = Not done | | | |
| **Blood Type ABRH**  **ABRH2**  **BBRH** | **HXCK** | | | | Patient History Check | * H-Patient history found * Q-Patient history not found | | | |
| **ABR** | | | | ABO/Rh  **Note:**   * Agglutination strength is recordable as: * 0,1,2,3,4+ * M for Mixed Field * H for Hemolysis * Result what is seen * Resolve per SOP for MF reactions * Rh result of wk→1+, hold Interpretation until Weak D testing complete. * See Neonatal Blood Type for Grid resulting | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | 0 | ≥ 2 | ND | 0 | ≥ 2 |   Interpretation: **A Pos**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | 0 | 0 | ND | 0 | ≥ 2 |   Interpretation: **A Neg**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | ≥ 2 | ≥ 2 | ND | ≥ 2 | 0 |   Interpretation: **B Pos**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | ≥ 2 | 0 | ND | ≥ 2 | 0 |   Interpretation: **B Neg**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | 0 | ≥ 2 | ND | ≥ 2 | ≥ 2 |   Interpretation: **O Pos**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | B | | BT | 0 | 0 | 0 | ND | ≥ 2 | ≥ 2 |   Interpretation: **O Neg**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | **C** | AC | BC | | BT | ≥ 2 | ≥ 2 | ≥ 2 | **0** | 0 | 0 |   Interpretation: **AB Pos**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | ≥ 2 | 0 | ND | 0 | 0 |   Interpretation: **AB Neg**  ND = Not done | | | |
| **Battery** | **Tests** | | | **Description** | | | | **Result Options** | | |
| **Neonatal Blood Type (TSCR and TXM order)** | **HXCK** | | | Patient History check: | | | | * H-Patient history found * Q-Patient history not found | | |
| **ABR** | | | ABO/Rh  **Note:**   * Agglutination strength is recordable as: * 0,1,2,3,4+ * I for Infant Not Tested * M for Mixed Field * H for Hemolysis * Result what is seen * Resolve per SOP for MF reactions * Rh result of wk → 1+, hold interpretation until Weak D is complete | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | 0 | ≥ 2 | ND | INT | INT |   Interpretation: **A Pos**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | 0 | 0 | ND | INT | INT |   Interpretation: **A Neg**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | ≥ 2 | ≥ 2 | ND | INT | INT |   Interpretation: **B Pos**  ND = Not done     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | ≥ 2 | 0 | ND | INT | INT |   Interpretation: **B Neg**  ND = Not done   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | 0 | 0 | ≥ 2 | ND | INT | INT |   Interpretation: **O Pos**  ND = Not done | | |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | B | | BT | 0 | 0 | 0 | ND | INT | INT |   Interpretation: **O Neg**  ND = Not done     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | **C** | AC | BC | | BT | ≥ 2 | ≥ 2 | ≥ 2 | **0** | INT | INT |   Interpretation: **AB Pos**  ND = Not done     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | A | B | Rh | C | AC | BC | | BT | ≥ 2 | ≥ 2 | 0 | ND | INT | INT |   Interpretation: **AB Neg**  ND = Not done | | |

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| **Battery** | **Tests** | **Description** | | **Result Options** |
| **Antibody Screen**  **(ABSCR)** | **HXCK** | Patient History check | | * H-Patient history found * Q-No patient history found | |
| **AS** | Antibody Screen | | |  |  |  |  | | --- | --- | --- | --- | |  | INC | AHG | CC | | S1 | 0 | 0 | ≥ 2 | | S2 | 0 | 0 | ≥ 2 | | S3 | 0 | 0 | ≥ 2 |   Interpretation: **N for Negative**   |  |  |  |  | | --- | --- | --- | --- | |  | INC | AHG | CC | | S1 | **\*** | **\*** | ND | | S2 | **\*** | **\*** | ND | | S3 | **\*** | **\*** | ND |   **\***  Any Agglutination in any of the cells  ND = Not done  Interpretation: **P for Positive**  Do not test positive cells with Coombs Control | |
| **Allocate Autologous Unit(s)** | **AUTOL** | UO | | * Indicates the number of units ordered | |
| HXCK  (Patient History check) | | * H-Patient history found * Q-No Patient history found | |
| ABR (ABO/Rh) | | * Reaction Grid for Results same as ABO | |
| AS | | * Use Reaction Grid found under **Antibody Screen** for results Interpretation | |
| PI | | * Use codes found under TSCR/TXM | |
| EXX | | * Defaults to 3 day outdate from specimen draw date. Extensions are allowed for qualifying Preadmission orders | |
| **ER** | **Emergency Release** | UO (Units Ordered)  Use **ONLY** when there is no sample available | * Allocate Universal blood type to order and issue * TS **“ [ “** for OK * TS **“ ] “** for Not OK * CM-Add comment “Emergency Release” * Add BBC to explain why sample was not received | | | |
| **ELUT** | **HXCK** | Patient History Check | * H-Patient history found * Q-No patient history found | | | |
| **ELU** | Antibody Eluted | * Enter Results * Results can been seen under comments in BAD * If appropriate; when AB code entered it can be seen under AB/AG in BAD | | | |
| **Transfusion Reaction Work-up (TRRX)**  **TRRX (continued)** | **HXCK** | Patient History Check | * H-Patient history found * Q-No patient history found | | | |
| **UNO** | Unit Number | * Indicate component type and unit number * Use **“ ; “** and free text | | | |
| **CLCK** | Clerical Check | * C for CLCKP (Clerical check passed) * F for CLCKF (Clerical check failed) | | | |
| **TXPATH** | Pathology consult | * Do not result until final pathology report * Result with “JDJ” * Can be viewed in ORCA as “See final pathology report” | | | |
| **TXRINT** | Biovigilance designation | * Do not result until final pathology report * Result with Biovigilance designation | | | |

**Addable Tests:**

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| **Battery** | **Tests** | **Description** | **Result Options** |
| **ABRH**  **TSCR**  **TXM**  **PREN**  **ABRH2** | **ARC** | ABO/Rh recheck | * Reaction Grid Results same as for ABO/Rh. |
| **TSCR**  **TXM**  **ABSCR**  **PREN** | **ABI** | Antibody ID  (Patient sample) | * Enter the code for the specific antibody or “ **;** “ and free text the antibody results: i.e. Anti-Bga * Free text will be seen in Comments. * Codes will be seen in Antigen/Antibodies in BAD file. |
| **ABID 2** | Billing Code used for subsequent panels used to identify the antibody(s) | * Use ABID 2 for billing a 2nd panel * For billing a 3rd panel: * Tab to 2nd line of comment. * r **“;2”** |
| **AGI** | Patient Antigen Type | * Enter the code for the specific antigen or **“** **;** **“** and free text the antigen typing results. * Antigen typing from outside facilities is entered directly into the BAD file using the OS code |
| **ABPATH** | Pathology Consult | * Add only for new antibodies identified. |
| **ELU** | Eluate result | * Eluate performed and resulted |
| **TTR** | Titer | * See below for additional titer tests |
| * **DBS** * **DIG** * **DCD** | DAT, Broad spectrum, IgG, C3 | * Reaction result grid same as DAT grids |

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| --- | --- | --- | --- |
| **TRRX**  **TRRX** | * **DBS** * **DIG** * **DCD** | DAT, Broad spectrum, IgG, C3 | * Reaction result grid same as DAT grids |
| **PRETX** | Pre-transfusion Sample | * Pre-transfusion sample Accession number |
| **PRESP** | Pre-transfusion Sample appearance | * E for HEM (Hemolysis present) * Y for HEMNO (No visible hemolysis) |
| **POSTSP** | Post Transfusion Sample Appearance | * E for HEM (Hemolysis present) * Y for HEMNO (No visible hemolysis) |
| **ABID** | Multiple addable tests | * Add necessary tests related to antibody ID; Eluate, DAT, etc |
| **ABR** | ABO/Rh | * Reaction result grid same as for ABO/Rh |
| **BBC**  **(microbiology)** | Blood Bank Comment | * Approved/Not approved to receive further blood products * Submitted to Microbiology * Gram stain results \_\_\_\_\_\_\_ * Culture results \_\_\_\_\_\_\_\_\_\_ |
| **ABRH**  **BBRH**  **PREN**  **TXM**  **TSCR**  **TRRX**  **ABRH2** | **DU** | Weak D test | |  |  |  | | --- | --- | --- | |  | DAHG | DUCC | | PT | 0 | ≥2 | | C | 0 | ≥2 |   Interpretation: **N for Negative**   |  |  |  | | --- | --- | --- | |  | DAHG | DUCC | | PT | **\*** | ND | | C | 0 | ≥2 |   **\*** Any agglutination present  Interpretation: **P for Positive**  Add BAD file comment for patient to receive Rh Negative PRBCs. |
| **TSCR**  **TXM**  **PREN**  **ABSCR** | * **TTR** * **TTRRP** | Titration | * Add for titrations * Add for Repeat titration of frozen samples |
| **TTR2** | Billing Code used for subsequent titers performed on current sample | * Use ABID 2 for billing a 2nd titer * For billing a 3rd titer: * Tab to 2nd line of comment. * r **“;2”** |
| **All Batteries** | **BBC** | Blood Bank Comment | * **“ ; “** Free text comment * Is attached to the Accession number for inquiry |
| **BBCS** | Suppressed Blood Bank Comment | * **“ ; “** Free text comment * Is attached to the Accession number for SQ only |

**References**

Blood Bank User Guide, Misys Laboratories, 7.1