**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)** | **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. |
| **ABR** | * ABO/Rh (D) | * Use Reaction Grid 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 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 |
| **Type and Crossmatch**  **(TXM)** | **UO** | * Units Ordered | * Defaults to number of units ordered. * Can be updated while sample is in date. |
| **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 |

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| **Battery** | **Tests** | | **Description** | | **Result Options** |
| **TXM**  **Continued** | **PI** | | * Physician Instructions | | * Semicolon (;) * Enter free text or add appropriate code. |
| **ABR** | | * ABO/Rh (D) | | * Use Reaction Grid 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 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 |
| **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 |
| **Battery** | | **Tests** | | **Description** | **Result Options** | | |
| **TXM**  **continued** | | **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) | | |
| **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. | | |
| **Direct Antiglobulin Test (DAT)** | | **HXCK** | | * Patient History Check | * H-Patient history found * Q-No patient history found | | |
| **DBS** | | * DAT, Broad Spectrum Coombs | * Reaction Grid for Results  |  |  |  |  | | --- | --- | --- | --- | |  | 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  Interpretation: **P for Positive**  ND = Not done   |  |  |  |  | | --- | --- | --- | --- | |  | DIS | RT | DCC | | Pt | **\*** | ND | ND | | C | **\*** | ND | ND |   “%” for Inconclusive—Needs More Investigation | | |
| **Battery** | | **Tests** | | **Description** | **Result Options** | | |
| **Direct Antiglobulin Test (DAT) Continued**  **Add on, if DBS is POS** | | **DIG** | | * DAT, Anti-IgG Coombs | * Reaction Grid for Results  |  |  |  | | --- | --- | --- | |  | DIGG | DCC | | Pt | 0 | ≥ 2 | | C | 0 | ND |   Interpretation: N for Negative   |  |  |  | | --- | --- | --- | |  | DIGG | DCC | | Pt | **\*** | ND | | C | 0 | ND |   **\*** Any Agglutination  Interpretation: **P for Positive**  ND = Not done | | |
| **DCD** | | * DAT, Complement | * Reaction Grid for Results  |  |  |  | | --- | --- | --- | |  | RT | DCC | | Pt | 0 | ≥ 2 | | C | 0 | ND |   Interpretation: **N for Negative**  ND = Not done   |  |  |  | | --- | --- | --- | |  | RT | DCC | | Pt | **\*** | ND | | C | 0 | ND |   **\*** Any Agglutination  Interpretation: **P for Positive**  ND = Not done | | |
| **Blood Type (ABRH/ABRH2)** | | **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 | * Reaction Grid for Results  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | 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 | | |

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| **Battery** | **Tests** | **Description** | **Result Options** |
| **Blood Type**  **(ABRH/ABRH2)**  **Continued** | **ABR** continued | ABO/Rh Continued  **Note:**   * Result Options must be met in order for the test to be reportable without further investigation. * Use M for Mixed Field. * Result what is seen * Resolve per SOP Discrepancy Result Resolution Process | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | 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 |
| **Antibody Screen**  **(ABSCR)** | * **HXCK** | * Patient History check | * H-Patient history found * Q-No patient history found |
| * **AS** | * Antibody Screen | * Reaction Grid Results  |  |  |  |  | | --- | --- | --- | --- | |  | 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 |

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| **Battery** | **Tests** | **Description** | **Result Options** |
| **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 |
| **ELU** | * **HXCK** | * Patient History Check | * H-Patient history found * Q-No patient history found |
| * **ELU** | * Antibody eluted | * Enter results * Results can be seen under comments in BAD * If appropriate AB code entered, can be seen under AB/AG in BAD |
| **Transfusion Reaction Work-up**  **(TRRX)** | * **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” |

**Addable Tests:**

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| **Battery** | **Tests** | **Description** | **Result Options** |
| **ABRH**  **TSCR**  **TXM**  **PREN** | * **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. * Example: *Patient types Neg for C @ PSBC* |
| * **ELU** | * Eluate result | * Eluate performed and resulted |
| * **TTR** | * Titer | * See below for additional titer tests |

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| **Addable Tests (continued)** | | | |
| **Battery** | **Tests** | **Description** | **Result Options** |
| **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 tests | * Tests related to antibody ID, Eluates, DATs |
| **ABRH**  **TSCR**  **TXM**  **ABSCR** | * **AUTO** | * Auto control | Reaction Grid for results   |  |  |  |  | | --- | --- | --- | --- | |  | AINC | AAHG | ACC | | AUTO | 0 | 0 | ≥2 |   Interpretation: N for Negative   |  |  |  |  | | --- | --- | --- | --- | |  | AINC | AAHG | ACC | | AUTO | **\*** | **\*** | ND |   Interpretation: P for Positive |
| **TSCR**  **TXM** | * **ABPATH** | * Pathology Consult | * Add only for new antibodies identified. |
| **ABRH**  **BBRH**  **PREN**  **TXM**  **TSCR**  **TRRX** | * **DU** | * Weak D test | Reaction Grid Results   |  |  |  | | --- | --- | --- | |  | DAHG | DUCC | | PT | 0 | ≥2 | | C | 0 | ≥2 |   Interpretation: N for Negative   |  |  |  | | --- | --- | --- | |  | DAHG | DUCC | | PT | **\*** | ND | | C | 0 | ≥2 |   Interpretation: P for Positive |
| **TSCR**  **TXM**  **PREN**  **ABSCR** | * **TTR** * **RPTTR** | * 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”** |
| **DAT**  **TRRX**  **TSCR**  **TXM**  **PREN** | * **ELU** | * Eluate report | * Add for reporting and billing eluate performed on positive DBS/DIG test results |

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| **Addable Tests (continued)** | | | |
| **Battery** | **Tests** | **Description** | **Result Options** |
| **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