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| **University of Washington,** **Harborview Medical Center****325 9th Ave. Seattle, WA, 98104****Transfusion Services Laboratory****Policies and Procedures Manual** | **Original Effective Date:** **April 15, 2012** | **Number:** **5820-3** |
| **Revision Effective Date:****6/15/14** | **Pages:**  |
| **TITLE: SQ Blood Order Processing Test Result Guide** |

**Purpose**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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
 |

|  |  |  |  |
| --- | --- | --- | --- |
| **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
 |
| **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
 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Battery** | **Tests** | **Description** | **Result Options** |
| **TXM** **continued** | **Crossmatch****AHG continued** | * 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 AgglutinationInterpretation: **P for Positive**ND = Not done

|  |  |  |  |
| --- | --- | --- | --- |
|  | DIS | RT | DCC |
| Pt | **\*** | ND | ND |
| C | **\*** | ND | ND |

**\*** Any AgglutinationInterpretation: **“ % “** **for Inconclusive****(More investigation should follow)**ND = Not done |
| **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 AgglutinationInterpretation: **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 AgglutinationInterpretation: **P for Positive**ND = Not done |
| **Blood Type (ABRH)** | **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 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Battery** | **Tests** | **Description** | **Result Options** |
| **Blood Type****(ABRH)****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 cellsND = Not doneInterpretation: **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
 |

|  |  |  |  |
| --- | --- | --- | --- |
| **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:**

|  |  |  |  |
| --- | --- | --- | --- |
| **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
 |
| **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
 | * Pretransfusion 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
 |
| **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