Name of Policy:	Computer Validation Protocol	THE UNIVERSITY OF TOLEDO
Policy Number:	3364-108-110	
Department:	Pathology/Laboratory – Blood Bank	
Approving Officer:	Chief Operating Officer - UTMC Director, Blood Transfusion Service	
Responsible Agent:	Blood Transfusion Service Supervisor Administrative Director, Lab	
Scope:	Pathology/Laboratory – Blood Bank	Effective Date:03/20/2023Initial Effective Date:3/1999
New polic Major revi	y proposal Minor/technical rev sion of existing policy X Reaffirmation of ex	vision of existing policy tisting policy

(A) Policy Statement

The Blood Transfusion Service has a plan to define, test and document computer process and procedures.

(B) Purpose of Policy

To describe the process of validation and revalidation of computer systems including the associated software.

(C) Procedure

The execution of the validation protocol provides documented evidence and a high degree of assurance that a specific process will consistently produce a specific result. Computer validations are performed on new hardware, new or upgraded software, and new and changed interfaces.

- 1. The BTS Supervisor devises an Implementation Plan including a validation protocol or outline with consideration for applicable laboratory regulation, risk assessment, accreditation standards, and manufacturer's instructions and release notes. The validation protocol or outline is approved by the System Administrators and the BTS Medical Director.
- 2. The system is installed by manufacturer's representative and Lab IS personnel and approved for proper function by the System Administrators.
- 3. Training for key personnel is provided by the manufacturer, if appropriate.
- 4. The key personnel develop and write procedures and flowchart processes. The System Administrator-level personnel develop and write computer training procedures, documentation form and competency test.
- 5. All procedures and processes are tested to see if expected results are actually obtained when the procedure or process is performed as written. The system is validated through execution of test cases. Each test case comprising the validation protocol or outline contains essential elements of computer validation protocol (see attachment B). Validation scripts may be provided by the software vendor and adapted as required to UTMC policy and procedure. Designated personnel perform the validation procedures and document the procedures accordingly.
- 6. The BTS Medical Director reviews the validation data and approves data by signing the validation protocol outline.
- 7. The BTS supervisor finalizes the written procedure and policies for the computer system.
- 8. The BTS Medical Director or designee reviews and approves the final procedure and policy manual.
- The BTS Supervisor and designated personnel train all remaining personnel. The training is documented on computer training form. All personnel must achieve successful completion of competency test prior to "live" date.
- 10. An abbreviated version of this process will precede software upgrades with complete testing of applicable processes affected by changes. Release notes and scripts provided by vendor will be used for validation.

Approved by:		Review/Revision Date:		
/s/ Lauren Stanoszek, M.D. Assistant Professor Director, Blood Transfusion Service	03/21/2023 Date	6/96 2/97 1/98 3/99 4/00 1/05 1/2008	6/9/2008 03/22/2011 3/01/2013 3/2/2015 3/1/2017 3/1/2019 3/1/2021 03/20/2023	
/s/	03/21/2023			
Christine Stesney-RidenourDateChief Operating Officer - UTMC		-		
Review/Revision Completed By: Danielle Weilnau, MLS(ASCP) ^{CM}		Next Revi	iew Date: 3/1/2025	

References:

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Food and Drug Administration, Center for Biologics Evaluation and Research. Draft guideline for the validation of blood establishment computer systems. Rockville, MD: Food and Drug Administration, October 28, 1993. (Docket No. 93N-0394).

Food and Drug Administration, Center for Biologics Evaluation and Research. Guideline for quality assurance in blood establishments. Rockville, MD: Food and Drug Administration, 1995. (Docket No. 91N-0450).

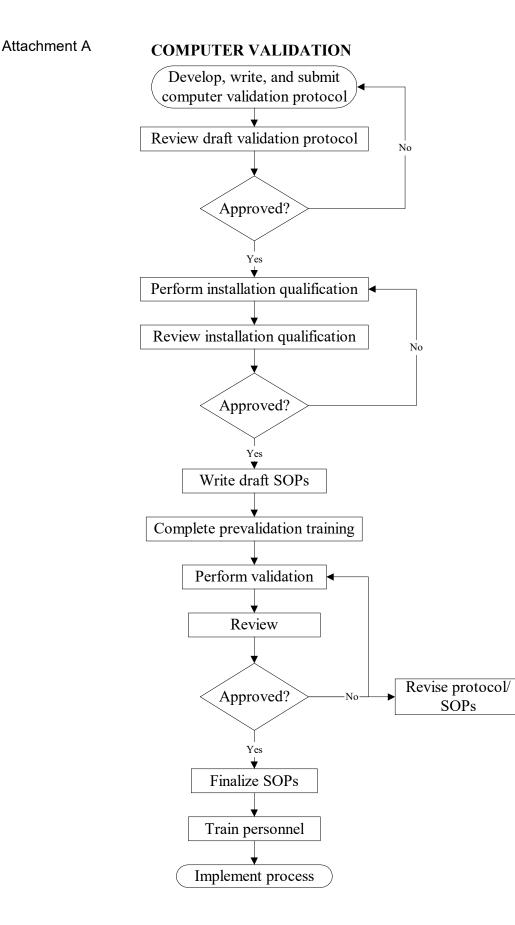
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Blood bank/transfusion service computer system user validation guidelines. Bethesda, MD: American Association of Blood Banks, 1993.

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Attachment B

ESSENTIAL ELEMENTS OF A COMPUTER VALIDATION PROTOCOL

System Description/ reason for validation

Title of test case

• Function to be tested and type of case intended

Purpose

• To ensure function to be tested yields expected results

Validation Activities/Procedure

• Instruction for performance of validation activity and documentation of actual results

Expected Test Results

Results Summary/ Acceptance

Review and Approval/Disapproval

Signatures and Dates