Department of



University of Washington Medical Center 1959 NE Pacific St., Seattle, WA, 98195 **Transfusion Services Laboratory**

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OR-0001.05

TITLE: Quality Plan

The Transfusion Service Laboratory (TSL) of University of Washington Medical Center (UWMC) conducts a comprehensive, structured quality program providing the framework for implementing, and monitoring all processes and aspects of blood product handling and transfusion. The TSL Quality System is envisioned as a program of continuous improvement which is enhanced through internal and external assessment, occurrence management, and customer feedback. Our goal is to improve patient safety and product quality by identifying, decreasing, and preventing errors.

The Quality Program supports the quality ideals set forth in the mission statement of University of Washington Medical Center, and conforms to regulatory standards of FDA, CAP, TJC, AABB and CLIA. The quality goals of the UWMC Transfusion Service are to ensure needed blood products are available that all blood products issued are safe and effective, and the services rendered by staff are efficient and accurate. Intermediate goals are:

- Complying with all required regulations and accreditation standards
- Detecting and preventing errors in transfusion medicine processes
- Reducing process variations that can cause errors •
- Improving effectiveness and efficiency of processes •
- Developing and maintaining competent staff •
- Responding to customer needs in provision of blood components and services •

The Quality Plan is organized around core quality elements consisting of the following:

- Organization and Leadership
- Personnel
- Equipment Management
- Suppliers and Supply Management •
- Process Management •
- Documents and Records
- Management of Nonconforming Events
- Monitoring and Assessment •
- Process Improvement •
- Information Management
- **Customer Focus**

ORGANIZATION AND LEADERSHIP

The UWMC TSL is part of the University of Washington Department of Laboratory Medicine and Pathology (DLMP). The leadership structure has defined roles and responsibilities to ensure the effective implementation and maintenance of the quality management and operational systems and to comply with regulatory requirements (See Appendix 1: Organizational Chart)

ROLES	RESPONSIBILITIES
Executive	Consists of:
Management	Chairman, DLMP, UW
	Chief of Service, DLMP, UWMC
	Division Head, DLMP, UWMC
	Transfusion Service Medical Director
	 Transfusion Service Associate Medical Director(s)
	Transfusion Service Laboratory Manager
	Transfusion Service Laboratory Quality Manager
Role of	Define and oversee the Quality Program.
Executive Management	• Ensure that quality policies and objectives are communicated, understood, implemented, and maintained.
management	 Ensure the design and delivery of products and services that meet customer
	needs
	• Ensure that quality management and operational system policies, processes, and procedures comply with the regulatory requirements, are documented, consistently followed, and continuously improved.
	 Ensure that the commitment to Quality is made known to and encouraged in all staff
	 Annually reviews and assesses the Quality Program for effectiveness and makes changes when required.
Chief of Service,	Designated CLIA Director
Laboratory	 Ultimate authority for Executive Management's performance.
Medicine	CLIA Director for all the UWMC Laboratories
	Reviews and approves all new and revised policies and procedures
Transfusion Service Medical Director or	 Has final authority and responsibility for all medical and technical policies, processes, and procedures, including those that pertain to laboratory personnel and test performance in the TSL
Designee	 Has authority and responsibility for all consultative and support services that relate to the care and safety of transfusion recipients
	 Participates in the development of institutional transfusion guidelines and policies
	 Participates in the development of policies and procedures related to intra and perioperative collection and reinfusion
	CLIA Director Designee for all transfusion service activities
	 Reviews and approves all new and revised policies and procedures
	 Is a member of the UWMC Transfusion Practice and Patient Blood Management Committees

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ROLES	RESPONSIBILITIES
Transfusion Service Laboratory Manager or Designee	 Carries out TSL operations following policies, processes and procedures as outlined Responsible for the service provided by the department and the quality activities carried out in support of the Quality System. Oversees Transfusion Service staff and operations. Reports to Transfusion Service Medical Director regarding quality and compliance issues
Turne for inc	 In conjunction with the TSL Quality Manager, ensures staff training and competencies meet departmental and regulatory requirements Reviews and approves all new and revised policies and procedures Ensures all procedures are reviewed every two years and comply with all regulating agency and manufacturer requirements
Transfusion Service Laboratory Quality & Regulatory Manager or Designee	 Maintains the policies, processes and procedures that are the quality plan and directs the activities that are the Quality Program Reports to Transfusion Service Medical Director regarding quality and compliance issues Ensures that Biologic Product Deviations are reported to the FDA within the required timeframe and corrective actions are taken and monitored for effectiveness Maintains SOP, equipment, and reagent change control and archival documents according to current Good Manufacturing Practices (cGMP) Documents and approves validation protocols and maintains written records of validated processes. When modifications are made, analyzes SOP content to assess impact on other systems or functions In conjunction with the TSL Manager, ensures staff training and competencies meet departmental and regulatory requirements Reviews and approves all new and revised policies and procedures Ensures all procedures are reviewed every two years and comply with all
TSL MLS Leads and MLS 2	 regulating agency and manufacturer requirements Provide floor level leadership for shifts and/or activities such as training and equipment Participates in writing SOPs Develop training documents and provide training for transfusion service personnel. Performs personnel competency evaluations in compliance with the CLIA 88 and ensures training/competence testing is documented and performed at required intervals Reviews QC records and ensures appropriate documentation and corrective actions. Ensures corrective action is documented and analyzes effectiveness of measures taken to correct QC or equipment problems Participates in proficiency testing Program as defined in the Laboratory Medicine Proficiency Testing Policy and ensures participation is rotated among staff members and follows up with staff members as appropriate when there are PT failures.

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ROLES	RESPONSIBILITIES
Transfusion Service Staff	Perform testing, product modification and provide blood product support to patients.
	 Perform quality control and preventative maintenance on reagents and equipment.
	Complete training and proficiency testing as assigned.
	 Participate in validations of processes and procedures.
	 Order and maintain inventory of blood products, reagents and supplies. Follow all policies, processes, and procedures as written.

PERSONNEL

Transfusion Service collaborates with the DLMP Human Resources Department to hire and maintain adequate, qualified, and competent staff.

ROLES	RESPONSIBILITIES
Laboratory	Recruit and post job openings
Medicine Human	 Screen applications for specified qualifications
Resources	 Forward resumes of screened applicants to the Transfusion Service
	Manager
	 Negotiate Union Contracts (where applicable)
	 Interact with Union representatives
	Provide guidance for employee disciplinary action
TSL Manager	 Works with TSL Medical Director to set staffing levels appropriate for
	department workload
	 Ensures that adequate staffing levels maintained
	 Requests adequate resources when workloads exceed established staffing
	levels.
	 Ensures that job descriptions reflect work performed for the position
	 Interview applicants together with appropriate team members
	Performs annual performance evaluations of the Transfusion Service Quality
	Manager, Lead Technologists, Medical Technologists/Technicians
	 The TSL employs an adequate number of qualified individuals:
Staffing	 Staffing levels are set according to workload and service standards
	 Staffing is reviewed periodically and when processes are modified
Qualifications	Job descriptions define appropriate education, training, and/or experience for
and Job	each position
Descriptions	 DLMP and Human Resources review and approve job descriptions for class
	and category.
	The TSL maintains a process for identifying training and retraining needs for
Staff Training	all personnel performing critical tasks
	 Quality Improvement reports capture information used in the assessment of training needs.
	 Each new employee completes task-based training on relevant department procedures and processes

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ROLES	RESPONSIBILITIES
Staff Competency	 The TSL maintains processes for evaluating staff competence before independent performance of critical tasks, and for evaluating continued competence at required intervals Initial competency after training (comprehensive) Semiannually within the first year of hire Annually after the first year Competency may be assessed at any time as part of corrective action and process improvement
Personnel Records	The TSL in conjunction with DLMP Administration maintains personnel records for each employee. The following records are maintained and retained for those authorized to perform or review critical tasks: Names Signatures Initials or Identification codes Inclusive dates of employment Summary of Training and experience Competency Formal certification Records of Continuing Education Performance Evaluation

EQUIPMENT MANAGEMENT

UWMC TSL has established and maintains processes and procedures in collaboration with the DLMP Equipment Management Policy for the provision and use of laboratory equipment that is appropriate for the medical needs, scope, and workload of the laboratory, and is in accordance with the organization's critical equipment selection process. TSL defines critical equipment as that which is essential to providing required services to patients and customers.

Equipment and instruments are qualified (validated) for its intended use prior to initial use and after major service or relocated. Initial qualification includes Installation, Operational, and Performance qualification as they apply to the equipment, manufacturer's specification and intended use. Evaluation of service or relocation impact on the operation of the device will determine the extent of requalification needed and may not require repeating the full initial validation.

ROLES	RESPONSIBILITIES
TSL Management	• Determines criteria and methods for acquisition/replacement, installation, validation, maintenance, operation, inspection, troubleshooting, service and repair are in place.
	 Ensure that a program that regularly monitors and demonstrates proper calibration and function of instruments, reagents, and analytical systems is established.
	Ensure that only authorized users operate equipment.
	 Provide a safe work environment for the operation of equipment.
TSL Medical Director	 Has ultimate responsibility for processes and procedures including instrument use, validations, and maintenance

ROLES	RESPONSIBILITIES
	Authorizes deviations based on medical need
TSL Manager and Quality Manager	 Maintains a critical equipment list. Ensure that equipment qualifications are performed before use and after repairs as appropriate and include installation, operational and performance qualification as applicable. Ensure that processes and procedures are in compliance with appropriate standards and regulations and manufacturer requirements Ensure that scheduled maintenance and routine calibrations are performed Monitor equipment performance
Laboratory Staff	 Follow manufacturer's instructions and applicable safety procedures for the safe operation of equipment. Perform equipment qualification and routine calibration. Perform scheduled maintenance. Troubleshoot equipment performance. Respond to equipment alarms in a timely manner
Scientific Instruments	Perform validation, scheduled maintenance and calibration per manufacturer and TSL specifications
Facility Engineering	 Perform installation qualification as part of equipment validation process Perform validation, scheduled maintenance and calibration per manufacturer and TSL specifications Assess and provide necessary physical requirements for the safe operation of laboratory equipment.
Supplier/Vendor	 Provide proof that the equipment meets the specified needs of the laboratory, and meets the installation qualification requirements for new, or repaired, equipment. Provide support for the equipment for a defined period of time as defined in the warranty or contract. This may include preventive maintenance, repairs, technical support, and recalibration.
Reference Ranges	 As applicable, reference and therapeutic ranges are established before equipment is placed into use.
Equipment Maintenance	A process and schedule are in place for preventive maintenance, monitoring, and documenting the performance of all equipment.

SUPPLIERS AND SUPPLY MANAGEMENT

UWMC has established policies, processes, and procedures for the selection, acquisition, and replacement of critical services and supplies. The TSL works with other UWMC department resources including contracting, finance and compliance to ensure that contracted services are aligned, consistently managed throughout the organization and lowest pricing is obtained.

ROLES	RESPONSIBILITIES
TSL Medical Director	 Overall responsibility for ensuring appropriateness and quality of the services, instruments, reagents, and consumable supplies. Participate in the selection of suppliers for critical services and supplies. Work with manager to identify critical materials and services. Work with manager to prioritize new programs and critical needs.

ROLES	RESPONSIBILITIES	
TSL Manager	 Identify needs for the department, develop and evaluate potential solutions. 	
· · - · · · · · · · · · · · · · · · · ·	 Recommend services and product selections 	
	Participate in prioritization of new programs.	
	 Assess daily operational needs and ensure that laboratory inventory is 	
	managed effectively and efficiently.	
TSL Quality	Ensures supplies are chosen in conformance with policies and procedures	
Manager	and meet regulatory requirements	
Laboratory Staff	 Follow applicable policies, processes, and procedures. 	
	Read manufacturer's inserts for reagents and consumables	
	Review package inserts for changes before putting lots into use	
	Use supplies and consumables appropriately	
	Complete lot acceptance and tracking of critical supplies	
	 Evaluate acceptability of incoming supplies Notify supervisors of the need for more supplies, problems with existing 	
	services or supplies, or other issues around services or supplies	
Supply Chain	 Request quotes for the purchase and management of ordered laboratory 	
	supplies and services.	
	 Place orders as requested from authorized laboratory personnel 	
	• Follow up with vendors in case of difficulties or disputes about the quality of	
	purchased services or supplies.	
UWMC	Receive orders into the facility.	
Receiving Dept.	Complete preliminary assessment of acceptability of order.	
	Follow-up and document problems discovered with the order during the	
	receiving process.	
	 Notify and document applicable individuals if problems are identified at facility required. 	
UW Health	facility receipt.Accept and store laboratory inventory.	
Warehouse	 Accept and store laboratory inventory. Deliver such inventory to the laboratory in a timely manner. 	
	 Notify (and document) applicable individuals if problems are identified during 	
	storage, or delivery of supplies to the laboratory.	
CATEGORY		
Supply	Processes and procedures are established for the verification, storage, and	
Management	use of reagents and consumables.	
	Reagents and consumables are not used until deemed acceptable for their	
	intended purpose.	
	Reagents and consumables to be used are verified to ensure they are	
	compatible with the equipment and method selected.	
	An inventory of reagents and consumables is maintained and documented in	
	 accordance with established process. Records are maintained in accordance with regulatory requirements, as 	
	 Records are maintained in accordance with regulatory requirements, as applicable. 	

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ROLES	RESPONSIBILITIES	
Medical Alerts or Product Recalls	 Supply Chain subscribes to an alert system for manufacturer recalls or safety alerts. Laboratory Medicine Designee receives these alerts and distributes to appropriate staff. Upon notification of manufacturer recall, any recalled inventory is removed from use and disposition recorded. 	
Service Providers and Purchased Services	Failure to meet established timelines and quality measures is reported through the occurrence management and Process Improvement processes	

UWMC has defined requirements and established criteria that must be met by the vendors who are selected to provide critical services, products, and supplies used by the TSL. Vendor/Supplier issues will be monitored through the QI process for any trends or ongoing failures to supply products that meet the TSL requirements.

VENDOR CATEGORY	VENDOR REQUIREMENTS	
Reagent, Instrument,	Provide materials and equipment that meet applicable FDA	
Equipment, and	requirements.	
Consumable Suppliers	Complete new vendor qualification as defined by Lab Med and	
	Hospital Purchasing departments	
	• Supply products at a level that meets the needs of the department.	
	Ship products/equipment appropriately.	
	 Supply training and support as needed. 	
	 Provide written instructions for use of the products/equipment supplied. 	
	• Provide directions for handling and storage of products/equipment.	
	 Provide Material Safety Data Sheets (MSDS) where applicable. 	
Blood Suppliers and	 FDA/CBER-licensed and meets FDA requirements. 	
Reference/Consultation	 AABB accredited and meet AABB requirements. 	
Services	CLIA compliant.	
	 Able to supply products or services at a level that meets the needs of the department. 	
	• Provide delivery services that are cost-effective, reliable, timely, and frequent enough to meet the department needs.	
	 Ship products at in validated shipping containers to ensure product transport temperature requirements are met and product arrives without damage. 	
	Reports reference testing results promptly in a timely manner.	
	Provides timely billing and credit processing	
	 Maintain competitive pricing that is comparable to other blood suppliers. 	
	 Provides timely notification when concerns affecting the safety or efficacy of blood products are discovered, including look-back, recall and market withdrawal. 	
Courier	Provide 24/7 availability.	
	Meet Stat timelines for delivery and pick-up.	
	Provide courteous service.	

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VENDOR CATEGORY

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VENDOR REQUIREMENTS

Provide timely billing and crediting.

PROCESS CONTROL

The TSL operates under written policies, process, procedures, and forms designed to provide safe patient care and meet regulatory, accreditation and customer requirements. Current processes are maintained and when need arises changed in a controlled manner to prevent unexpected consequences that could compromise patient safety and product quality. The following is a list of actions for ensuring policies, processes, and procedures are carried out under controlled conditions.

STEP	ACTION	
Request for new or	Any member of the TSL may propose a change or new process	
change of a process	Change to processes, procedures, or protocols should include the following	
	as applicable:	
	 Definition of scope 	
	 Goal of the change 	
	 Resources required 	
	 Verification and/or Validation required 	
	 Appropriate documentation. 	
	• Any change may be more or less detailed, dependent on the magnitude of	
	the change.	
	 Will be reviewed and approved by the TSL Medical Director and TSL Manager 	
	 Proposal may be forwarded for approval to the Transfusion Practice 	
	Committee if deemed appropriate by the Medical Director.	
	 Records of Change Control are maintained 	
Implementation	 A multi-disciplinary team approach is used for changes affecting other 	
Plan Development	stakeholders.	
	 Discuss and evaluate proposed changes with key staff and stakeholders 	
	prior to implementation	
	• Evaluate and determine whether processes and procedures meet regulatory requirements.	
	Evaluate and determine resources required for the change	
	Evaluate validation, training and implementation needs	
	Evaluate the need for future competency assessments	
Verification	 Verify any supplies, reagents, equipment, or blood products required for the process meet specifications 	
Validation	All equipment if validated prior to being placed in use or after major repairs	
	New processes are validated prior to implementation	
	LIS software updates are validated prior to implementation.	
	Validation meets acceptance criteria prior to implementation.	
Change Review	Review of the change should take place post-implementation.	
-	Corrective actions should be monitored for effectiveness using the Process	
	Improvement Process and/or audits	
	Staff Competency performed if required	
Documentation	All Records of Change Control are maintained in conformance with policy	

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Quality Control (QC)	•	QC is performed each day of use and must be acceptable prior to reporting
		of patient and donor testing
	٠	QC is reviewed monthly by TSL manager and documented on the Monthly
		Reagent QC Review Form

DOCUMENTS AND RECORDS

The TSL follows the UWMC DLMP Document Management Policy that complies with applicable standards and regulatory requirements for the retention of time-sensitive and critical laboratory documents and records. TSL records are retained as per the following table:

TYPE OF RECORD	MINIMUM RETENTION TIME
 Information stored in the Laboratory Information System Laboratory Test results Patient information (difficulty in blood typing, clinically significant antibodies, significant adverse events to transfusion, special transfusion requirements) Blood product history and final disposition 	Indefinite
• Records of names, signatures, initials, or identification codes, and inclusive dates of employment for staff that performs or review critical tasks.	10 years
 Patient specific requests for Blood Products Manual Blood Product Order Forms Electronic orders are maintained in the HIS 	5 years
 Emergency Release of Uncrossmatched Blood Forms signed by physicians (may be maintained in EMR) Notification of abnormal results Investigation of Transfusion Related Adverse Events Suspected Transfusion Related Adverse Events Fatalities Look-back investigations Blood Product Deviation reports Preventative Actions Corrective Actions Quality Improvement Reports 	10 years
 Reagent and blood product inspection and acceptability Use of control system appropriate to the method of testing—All QC records. Records of blood storage temperatures Daily Reagent Quality control results Daily TANGO Quality control results Additional reagent Quality Control results Temperature monitoring of refrigerators, freezers, and platelet incubators 	10 years

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TYPE OF RECORD	MINIMUM RETENTION TIME
Validation of Computer Systems	2 years post retirement of the system
Antibody Identification workups	Indefinitely
Evaluation and performance of suppliersSupplier agreements	5 years
Biennial Review of SOPs	
 Proficiency testing records Archival of obsolete policies and procedures 	5 years
Assessment Records	5 years
CAP Survey results	
Internal Audits	
Corrective Actions	
Blood Utilization Review	
Personnel records	5 years
Job descriptions	
Training records	
Competency records	
Qualifications to perform critical tasks	

MANAGEMENT OF NONCONFORMING EVENTS

The UWMC TSL maintains processes and procedures that ensure the capture, assessment, investigation, analyze and take corrective action of deviations or failures to meet specified requirements, nonconforming events, and/or adverse reactions to transfusion. Biologic Product Deviations are reported and tracked according to the Laboratory Medicine Biological Product Deviation Reporting Policy. These may include but not limited events related to blood, components, critical materials, equipment, patients, services and suppliers that fail to meet specified requirements

The TSL tracks these events and deviations internally, and reports deviations to outside agencies or through the facility wide event reporting system as required.

ROLE	RESPONSIBILITY
TSL Medical	Approves planned deviations from policy beforehand when required for patient
Director	care
	 Approve any release of nonconforming products
	 Evaluates, consult and advises on medical management of Immediate Transfusion-related adverse events.
	 Review and write pathology consultations on all Adverse Reactions to Transfusion both immediate and delayed.
	 Advises and notifies recipient's physician and/or recipient as specified by the FDA for Look-Back process.
TSL Manager and Quality Manager	 Maintains processes and procedures for capturing, assessing, investigating and monitoring deviations.
	Monitor occurrences, categorizing and reporting as required.Maintains corrective action processes.

ROLE	RESPONSIBILITY	
Laboratory Staff	 Identifies, documents and reports deviations from laboratory policy and procedures Documents and takes immediate action to gain control of any non-conforming reagents, blood products or test results Participates in corrective and preventive actions as applicable 	
NONCONFORMANCE	ACTION	
Planned Deviation	 Approved by Medical Director prior to event Documented on QI or other Deviation Approval Form Documented on QI Form 	
Deviation	 Reported through occurrence management process Assessed for patient safety by TSL Manager, Quality Manager and/or Medical Director as applicable 	
Nonconforming Critical Materials & Services	TSL maintains processes and procedure for the review, evaluation, and disposition of nonconforming materials and services	
Temperature Variances	 Relocate products to acceptable alternate location(s) within 30 minutes of equipment failure/temperature outage. Quarantine products that have been stored outside of acceptable temperature range for ≥30 minutes Document temperature variances and corrective actions on QI form 	
Nonconforming Blood Products	 TSL maintains processes and procedures for: Identification, quarantine, and disposition of nonconforming blood products. Notification of providers, recipients (lookbacks), and outside agencies as required The TSL Medical Director evaluates products determined to be nonconforming after issue or transfusion, to determine effect of nonconformance on the product and will determine if notification of the recipient or their provider is required. Recipients and/or next of kin are notified in the case of product Lookbacks as per FDA regulations 	
Biological Product Deviations (BPD)	Biologic Product Deviation reported to FDA within 45 days of discovery	
Safety or Environment of Care deviations	Reported through the hospital UHC Safety Intelligence system and to any other appropriate agency as required	
ADVERSE TRANS. EVENT	ACTION	
Immediate Suspected Transfusion Reaction	 TSL maintains processes and procedures for: Immediate notification of the transfusion service and the responsible physician. Prompt evaluation of all suspected transfusion-related adverse events in a manner that does not delay the proper clinical management of the patient. Indicating under which circumstances additional testing is performed, and what the testing will be. Notification of the collecting facility when a transfusion-related adverse event is thought to be caused by an adverse condition of the blood component. 	

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ROLE	RESPONSIBILITY	
	 In the event of a fatality thought to be transfusion related, the FDA will be notified as soon as possible Documentation of the investigating and findings in the patient's medical record 	
Delayed	TSL maintains processes and procedures for:	
Transfusion	Performance of testing	
Reaction	Evaluation of testing.	
	 Reporting to the patient's physician when a delayed reaction is detected or suspected. 	
Transfusion-	The TSL maintains a process for:	
Transmitted	Identifying suspected cases of transfusion-transmitted diseases.	
Disease	Investigating suspected cases of transfusion-transmitted diseases.	
	Reporting the identity of any implicated donor units to the collecting facility.	

MONITORING and ASSESSMENT

The UWMC TSL uses data and information about its operational processes and quality management system performance to identify opportunities for improvement. In addition to the process listed below, the TSL utilizes internal deviation reporting and customer requests to monitor operations for quality and compliance.

The TSL also participates directly in external assessments by the College of American Pathologists (CAP) and inspections by the Food and Drug Administration (FDA) every two years. During a CAP non-inspection year, the TSL performs an internal assessment using the CAP checklist to identify areas of needed improvement.

OPERATIONAL PROCESS	QUALITY INDICATOR	METHOD	FREQUENCY
Sample Collection	Sample Rejection	Rejection Report	Monthly
Pretransfusion Testing	 Reagent QC documentation QA over-ride report Antibody Identification Accuracy 	 Check by second technologist. Manager/Quality review Report reviewed by Supervisory staff 	Each occurrenceDailyEach occurrence
Inventory Management	WastageExpirationUnit Age	 SQ Product File List Report Custom inventory report 	MonthlyMonthly
Blood Product Ordering Practice	 C/T Ratio Special Product Attributes 	 SQ Finalized/Issued Report Medical Director blood order review 	MonthlyEach order

PROCESS IMPROVEMENT

The TSL collects and analyzes data including near miss events, to determine where preventive and corrective actions are needed, and implementing the necessary preventive or corrective actions. Opportunities may be identified through any avenue including record review, non-conforming events, customer requests and/or Patient Safety Net reports, external and internal assessments, and staff requests.

In addition to internal process improvements, the TSL participates in interdisciplinary process improvements to improve patient care across disciplines.

ROLE	RESPONSIBILITY		
TSL Medical Director	Receives policy from Executive Management		
	Participate in policy decisions regarding quality indicators and data		
	collection methods.		
	Follow regulatory requirements for data collection, such as transfusion		
	practice review.		
	 Review and approve processes and procedures. 		
	Participate in decisions about corrective action.		
	Review and approve corrective action results.		
	Participate in improvement teams.		
TSL Manager/Quality Manager	 Participate in policy decisions regarding quality indicators and data collection methods. 		
	 Review and implement new processes and procedures. 		
	 Participate in decisions about corrective action. 		
	 Review and implement corrective action results. 		
	Participate in data collection		
	Prepare monthly reports for Transfusion Practice Committee and		
	quality committees		
	 Use data and information about operational processes and 		
	performance, as well as occurrence management to identify		
	opportunities for quality improvement.		
	Participate in improvement teams		
Laboratory Staff	Participate in improvement teams as required		
	Assist with data collection as assigned		
	 Identify opportunities for quality improvement observed through operational processes 		
UWMC Center for	Monitors nonconformance reported through the UHC Safety		
Clinical Excellence	Intelligence system		
	May assist in multidisciplinary and intradepartmental process		
	improvements		
	Reviews and monitors patient safety events for appropriate corrective		
	and preventative actions		
STEP	ACTION		
Continual	UWMC TSL has a defined, systematic approach for continual		
Improvement	improvement of operational processes and the quality management system that includes the review of the following:		

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	Assessment Results	
	Audit Results	
	Proficiency Testing Results	
	Quality Control Records and Review	
	SQ Quality Assurance Report	
	Quality Indicator Data	
	Quality Improvement Reports	
Implementing	• Corrective action is taken when actual nonconformances, deviations,	
Corrective Actions and	complaints, and process failures occur.	
Preventive Actions	Corrective action will address the root causes of such events to	
	reduce or eliminate their recurrence.	
	Preventive action is taken when data analysis or trends indicate the	
	potential for a nonconforming product or service.	
	Preventive actions are intended to eliminate the root causes of	
	potential nonconformances in order to prevent their occurrence.	
	Corrective actions and preventive actions will be appropriate to the	
	level of risk and potential for serious adverse outcomes associated	
	with the issue being addressed.	
Monitoring	Corrective actions and preventive actions are monitored to verify	
	successful implementation.	
	The results are reviewed by the Medical Director.	

INFORMATION MANAGEMENT

The DLMP and the TSL maintain policies, processes, and procedures for the appropriate use, management, and protection of information. The TSL complies with the Lab Medicine Compliance to Health Insurance Portability and Accountability Act, Results Reporting Policy, Verbal Release of Results/Reports Containing Protected Health Information (PHI) for Purpose of Treatment policies

ROLE	RESPONSIBILITY	
TSL Medical	Participates in the selection of Laboratory Information Systems (LIS)	
Director	 Approves all significant changes to the LIS or clinical decision support applications within the department Review and approve validations and modifications 	
TSL Manager	 In conjunction with Laboratory Medicine and UWMC IT, ensures that policies for confidentiality of data, information and verbal and written communications shall be established and followed In conjunction with Laboratory Medicine and UWMC IT, ensures that access to data is controlled to prevent unauthorized access to and release of information 	
	 Ensures that the authorization to access and release data and information is defined and individuals authorized to enter, change, and release results are identified, qualified, and trained Develops LIS processes, workflow, and procedures Ensures the computer validation is performed and acceptable prior to 	
	implementation	
Quality Manager	Develops LIS processes, workflow, and procedures	

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	Final disposition of component Documentation of history checks		
Donor Component Record	 Name of Manufacturer Donor Identification Number Product code and description Expiration Date Special Attributes Donor ABO/Rh ABO/Rh Confirmatory Testing Results of testing and crossmatch, when applicable Additional processing such as irradiation, volume reduction, thawing Recipient name and medical record number Issue documentation including final inspection at issue Return documentation if returned after issue 		
LIS (Sunquest)	STORES THE FOLLOWING INFORMATION		
DLMP IT Division	 Report any matched relate of confidential monimation to manager immediately Quality and courtesy of telephone communication is defined by scripts and observed by coworkers Develop LIS processes, workflows, and procedures that record the choice, implementation, validation, integration, and security of laboratory information systems or clinical decision support systems Ensure reports and electronically viewable results are designed to provide clear and understandable information to the user. Ensure that all report formats meet CLIA requirements. Establish and maintain a process for ensuring that data integrity is maintained. Ensures that data are retrievable and usable for the entire retention time. Ensures that data is reliably sent from the point of entry to final destination in a timely manner. Ensures that data storage media is protected from damage or unintended destruction. Provide routine preventative maintenance and troubleshooting support of the laboratory information system or clinical decision support systems Validate computer performs as intended after repairs or systems upgrade Ensures computer equipment is given a unique identification and is traceable Back-up Data Ensures back-up of all critical data. Back-up data. Ensures periodically, the ability to retrieve data from the back-up system. Alternative System Maintains and tests periodically, an alternative system in the event that computerized data or the primary source of information is unavailable. 		
Laboratory Staff	 Ensures the computer validation is performed and acceptable prior to implementation Follow policies processes, and procedures to maintain integrity of confidential information Report any inadvertent release of confidential information to manager 		

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	 Required attributes and other 	 Allocated components
	special requirements required	 Transfused components
	 Difficulties with testing 	
	 Date of birth and age 	
	 Test and crossmatch results 	
Laboratory Staff	 Identification of the person who performs patient or donor component testing and including the date and time of testing Identification of the person who performs any processing of a donor component from receipt to final disposition and include the date time of action 	
CATEGORY	ACTION	
Computer System Validation	Computer system programs and processes are validated or revalidated to ensure the integrity and accuracy of data and calculation after initial installation, system upgrades and system modifications	
Computer Identification	Each item of computer equipment is given a unique label or other identification	

CUSTOMER FOCUS

The UWMC TSL provides transfusion services at three campus locations: UWMC Montlake, UWMC Northwest and Seattle Cancer Care Alliance (SCCA) Eastlake (also known as Fred Hutch Cancer Center FHCC). Services include patient and product testing for both inpatients and outpatients including patient testing for UW Neighborhood Clinics. Testing and component processing is performed at UWMC Montlake except for thawing of plasma components at the Northwest Campus

The TSL participates in multiple committees and meetings with customers and other hospital departments to review transfusion practices, identify need for new processes or services and identify opportunities for process improvements. New processes and improvements may be developed in conjunction with customers or internally within the TSL.

MEETING	ATTENDEES	FREQUENCY
Transfusion Practice	UWMC Hospital Staff	Bi-Monthly
Committee		
SCCA (FHCC)	SCCA (FHCC)Transfusion Safety	Monthly
Continuous Quality	Office and Support Service	
Improvement Meeting		
NW Continuous Quality	UWMC Northwest Laboratory	Monthly
Improvement Meeting	Operations Leadership	
Montlake Quality	UWMC TSL Leadership	Monthly
Meeting		
UWMC Daily Safety	Leadership representation from	Daily
Brief	critical hospital departments	
TSL/SCCA (FHCC) Daily	UWMC TSL Staff, SCCA (FHCC)	Daily
Status Brief	Transfusion Safety Office and	
	Support Service	
SCCA (FHCC)	SCCA (FHCC) Staff	Quarterly
Transfusion	UWMC TSL Staff	

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Committee

UWMC SOP Approval:				
UWMC CLIA Medical Director	Andrew Bryan, MD	Date		
		Date		
Transfusion Service Manager		_ Date		
	Nina Sen			
QA Manager		Date		
Transfusion	Tayler Reeves			
Service				
Medical Director	Monica Pagano, MD	Date		
	Monica Pagano, MD			
UWMC Biennial Review:				
		Date		
		Date		

REVISIONS:

01-23-19: Responsibility for Intraoperative/Perioperative Program involvement by the TSL Medical Director

06-15-21: Updated organization chart and added NW and SCCA campuses as customer locations Update responsibilities for LIS maintenance and specified information stored in the LIS.

06-10-22:Updated organization chart, updated staff competency 07-01-22:Updated organization chart, added monthly supervisory QC review

TITLE: Quality Plan	Number:
TITLE: Quality Plan	OR-0001.04

Appendix1: Organizational Chart

