

# OF BLOOD ESTABLISHMENTS

Prepared by the Working Group on Definitions

of the

International Society of Blood Transfusion (ISBT)

Quality Management Working Party

26 July 2023

### Introduction

The Board of the ISBT Quality Management Working Party has initiated a project to harmonise the definitions commonly used in blood establishments around the world. A working group was established to work on this project with the aim of providing simple, unambiguous definitions that can be applied in a standardised way.

Common references available internationally have been consulted in drafting a list of definitions relating to quality management and these reference sources are quoted in the document. Criteria for selection of the optimal definition included clarity, simplicity, comprehensiveness and best applicability. Definitions have been adapted from the original sources in some instances. The resulting list of definitions is not prescriptive but is meant to serve as a recommendation for establishments that choose to use them. It is understood, however, that establishments in some countries are obliged to follow national legislation and terminology.

It is the intention of the ISBT Quality Management Working Party to periodically review the list of definitions and perform updates when required so feedback from interested parties is welcome.

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TERM	DEFINITION	SOURCE/REFERENCE
Accreditation	Process by which an independent and authorized agency certifies the quality and competence of an organization/ establishment on the basis of certain predefined standards.	WHO/EHT/ 04.09
Agreement	A contract, order, or understanding between two or more parties, such as between a blood establishment and one of its customers.	AABB Standards for Blood Banks and Transfusion Services, 33rd ed. (adapted)
Apheresis	Method of obtaining one or more blood components by machine processing of whole blood, in which the residual components of the blood are returned to the donor during or at the end of the process.	EDQM Blood Guide, 21 <sup>st</sup> ed 2023
Assessment	Evaluation of processes and systems to identify areas for improvement and to ensure that they are meeting the needs of stakeholders.  Assessments may be conducted by internal staff or by external experts, and may involve a review of the quality management system, an analysis of customer feedback, and an examination of compliance with regulatory requirements or accreditation standards.	ISBT Working Party - Quality Management (ISBT WP- QM)
Audit	A systematic and independent examination to determine whether quality activities and related results comply with planned arrangements and whether these arrangements are implemented effectively and are suitable to achieve objectives.	EDQM Blood Guide, 21st ed 2023
Batch /lot	A specific quantity of material produced in a process or series of processes so that it is expected to be homogeneous within specified limits. In the case of continuous production, a batch may correspond to a defined fraction of the production. The batch size can be defined by a fixed quantity or by the amount produced in a fixed tome interval.	PIC/S Guide to GMP for Medicinal Products: PE 009-16 (Part II), 2022
Batch /lot number	A unique combination of numbers, letters, and/or symbols that identifies a batch (or lot) from which the production or distribution history can be determined.	PIC/S Guide to GMP for Medicinal Products: PE 009-16 (Part II), 2022
Biovigilance	The science and activities relating to the detection, assessment, understanding and prevention of adverse events or any other problem related to biologicals.  Biovigilance for biologicals is analogous to pharmacovigilance for pharmaceuticals,	Therapeutic Goods Administration, Australia
Blood (whole blood)	Blood collected from a donor and processed either for transfusion or for further manufacturing.	Directive 2002/98/EC
Blood collection	The procedure whereby a donation of blood is collected in an anticoagulant and/or stabilizing solution, under conditions designed to minimize microbial contamination, cellular damage and/or coagulation activation of the resulting blood donation.	WHO Technical Report Series, No. 961, 2011 (Annex 4)
Blood component	A therapeutic constituent of blood (red cells, white cells, platelets, plasma) that can be prepared by various methods.  Note: Methods may include centrifugation, filtration or freezing using conventional blood bank methodology.	Directive 2002/98/EC



TERM	DEFINITION	SOURCE/REFERENCE
Blood establishment (BE)	Any structure, facility or body that is responsible for any aspect of the collection, testing, processing, storage, release or distribution of human blood or blood components (including source plasma) when intended for transfusion or further industrial manufacturing.	WHO guidance on increasing supplies of PDMP
	BE includes hospital blood banks <b>that are also engaged</b> in blood collection, processing, testing, storage and distribution activities	
Blood product	Any therapeutic product derived from human blood or plasma.	Directive 2002/98/EC
Calibration	The set of operations which establish, under specified conditions, the comparison of a measurement instrument or system of unverified accuracy to one of known accuracy to detect any variation from the required performance specification.	Eudralex Guidelines for GMP, ISBT WP- QM, ASQ glossary
Change control	A structured method of revising a policy, process, or procedure, including hardware or software design, transition planning, and revisions to all related documents.	AABB Standards, 33rd ed
Clean area	An area with defined environmental control of particulate and microbial contamination constructed and used in such a way as to reduce the introduction, generation and retention of contaminants within the area.	Eudralex Guidelines for GMP
	Note: The different degrees of environmental control are defined in the Supplementary Guidelines for the Manufacture of sterile medicinal products. Also see ISO 14644 series of standards.	
Clean contained area	An area constructed and operated in such a manner that will achieve the aims of both a clean area and a contained area at the same time.	Eudralex Guidelines for GMP
Closed system	A system, the contents of which are not exposed to air or outside elements during collection, preparation, and separation of components.	AABB Standards, 33rd ed
Collection facility	An establishment that performs blood collection or apheresis, but does not test.  Note: Alternate names are blood donation facility or plasmapheresis facility.	FDA facility registration
Competence	Demonstrated personnel attributes and demonstrated ability to apply knowledge and skills in performing tasks according to procedures.	ISBT WP-QM
Competent authority (CA)	The agency responsible under its national law for regulations applicable to blood establishments.	AABB Standards, 33rd ed <i>(adapted)</i>
Compliance / conformance	Fulfilment of requirements that may be defined by customers, practice standards, regulatory agencies, or law.	AABB Standards, 33rd ed
Computerised system	A system including the input of data, electronic processing and the output of information to be used either for reporting, automatic control or documentation.	Directive 2005/62/EC
Contained area	An area constructed and operated in such a manner (and equipped with appropriate air handling and filtration) so as to prevent contamination of the external environment by biological agents from within the area.	Eudralex Guidelines for GMP
Controlled area	An area constructed and operated in such a manner that some attempt is made to control the introduction of potential contamination, and the consequences of accidental release of living organisms. At a minimum, the area should be	Eudralex Guidelines for GMP



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	maintained at a pressure negative to the immediate externa environment and allow for the efficient removal of small quantities of airborne contaminants.	
Corrective and preventive action (CAPA)	Corrective action (CA): Action to eliminate the cause of a detected non-conformity or other undesirable situation in order to prevent a recurrence.  Preventive action (PA): Action to eliminate the cause of a <i>potential</i> non-conformity or other undesirable situation.	ISO 9000:2015 ISBT WP-QM
Critical	Potentially having an effect on the quality and/or safety of blood, blood components or blood products.	Directive 2006/86/EC
Critical equipment/ material/ tasks	A piece of equipment, material, service, or task that can affect the quality of the establishment's products or services.	AABB Standards, 33rd ed
Criticality	A term that refers to how often a failure will occur, how easy it is to diagnose, and whether it can be fixed.	ISBT WP-QM
Cross- contamination	Contamination of a material or of a product with another material, product or pathogenic microorganism.	Eudralex Guidelines for GMP (adapted)
Customer	The receiver of a product or service as defined by the establishment. A customer may be internal (eg, another department within the same establishment) or external (eg, another organisation).	AABB Standards, 33rd ed <i>(adapted)</i>
Deferral (blood donor)	Suspension of the eligibility of an individual to donate blood or blood components, such suspension being either permanent or temporary.	Directive 2002/98/EC
Deficiency	A lack, inadequacy or insufficiency in meeting a particular requirement or standard. Deficiencies can arise in various contexts, such as product features, processes, documentation, or performance. They represent areas where improvement or corrective action is needed to address the identified shortcomings.	ISBT WP-QM
Derivatives	Sterile solutions of a specific protein(s) derived from blood or by recombinant technology (eg, albumin, plasma protein fraction, immune globulin, and factor concentrates).	AABB Standards, 33rd ed
Disaster	An event (internal, local or national) that can affect the safety and availability of the blood supply or the safety of staff, patients, volunteers, and donors.	AABB Standards, 33rd ed
Distribution	The act of delivery of blood, blood components and blood products to other blood establishments and manufacturers of blood and plasma derived products. It does not include the issuing of blood or blood components for transfusion.	Directive 2002/98/EC
Document/ documentation (noun)	Written or electronically generated policies, procedures, instructions and records involved in providing a product or service.	WHO/EHT/ 04.09 (adapted)
Document (verb)	To capture information through writing or electronic media.	AABB Standards, 33rd ed



TERM	DEFINITION	SOURCE/REFERENCE
Donation	Blood and blood components collected from an individual and intended for transfusion to another individual (allogeneic) or to the same (autologous) individual.	EuBIS Inspection Standards and Criteria, 2018
Donor adverse events	Note: Donor adverse events have been defined in an IHN/ISBT document and may be grouped into the following categories:  • Local symptoms • Generalized symptoms - vasovagal reactions • Allergic reactions • Reactions related to apheresis • Other complications related to blood donation.	Goldman M et al, Development of standard definitions for surveillance of complications related to blood donation. Vox Sang 2016;110: 185-188
Donor management	Measures taken in line with national and international regulatory requirements to ensure a safe, sufficient, stable and sustainable blood supply that incorporate: identifying, selecting and recruiting eligible donors who meet the required health and eligibility criteria; screening and evaluation of donors to help identify any potential risks associated with blood donation; retention of donors; and public awareness and education to promote a culture of voluntary, regular blood donation.	ISBT WP-QM
Donor, voluntary non- remunerated	A donor who has been motivated to donate blood without expectation of compensation or pursuant to third party pressure.  Donation is considered voluntary and non-remunerated if the person gives blood, plasma or cellular components of his/her own free will and receives no payment for it, either in the form of cash, or in kind which could be considered a substitute for money. This would include time off work other than that reasonably needed for the donation and travel. Small tokens, refreshments and reimbursements of direct travel costs are compatible with voluntary, non-remunerated donation.	Africa Society for Blood Transfusion (AfSBT) Standards, 2021 Council of Europe Recommendation No. R (95) 14 Art. 2
Donor, allogeneic	An individual from whom products intended for another person are collected.	AABB Standards, 33rd ed
Donor, autologous	A person who acts as his or her own product donor.	AABB Standards, 33rd ed
Donor, blood	A person in normal health with good medical history who voluntarily gives blood or plasma for therapeutic use.	PIC/S GMP Guide for BEs, 2019
Donor, designated/ dedicated	An individual who donates blood components intended for and used solely by a single identified recipient.	AABB Standards, 33rd ed
Donor, first time	Someone who has never donated either blood, plasma or apheresis components before.	ISBT WP - QM
Donor, regular	Someone who routinely donates their blood or plasma (i.e. within the last two years), in accordance with minimum time intervals.	ISBT WP - QM
Donor, repeat	Someone who has donated before but not within the last two years.	ISBT WP - QM
Donor, replacement	A donor who has been asked by the family of a patient in need of a transfusion to give blood for a specific recipient, or to replace the blood transfused to a specific recipient.	AfSBT Standards, 2021



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External quality assessment (EQA)	The external assessment of a laboratory's performance using samples of known, but undisclosed, content and comparison with the performance of other laboratories.	WHO/EHT/ 04.09
External quality assessment scheme (EQA)	A recognized scheme for organizing EQA. This can be a local scheme or organized at national, regional or international level.	WHO/EHT/ 04.09
Failure Mode Effects Analysis (FMEA)	A systematic, proactive method for evaluating a process to identify where and how it may fail and to assess the relative impact of different failures, in order to identify the parts of the process that are most in need of change.	Institute for Healthcare Improvement (IHI)
Familiarisation visit	An activity, that includes a visit to a blood establishment in order for a candidate inspector to become familiar with its overall processes, functions and operations.	EuBIS Inspection Standards and Criteria, 2018 (adapted)
Good manufacturing practice (GMP)	All elements in established practice that will collectively lead to final products or services that consistently meet appropriate specifications and compliance with defined regulations.	PIC/S GP Guide for BEs, PE 005-4, 2021
Good practice (GP)	All elements in established practice that collectively will lead to final blood or blood components/products that consistently meet predefined specifications and compliance with defined regulations.	Directive 2005/62/EC (adapted)
Haemovigilance	A set of surveillance procedures covering the whole transfusion chain (from the collection of blood and its components to the follow-up of recipients), intended to collect and assess information on unexpected or undesirable effects resulting from the use of labile blood products, and to prevent their occurrence or recurrence.	Hemovigilance: An Effective Tool for Improving Transfusion Safety (eds R R P De Vries and J-C Faber), Wiley- Blackwell, Oxford, UK, 2012
Hospital blood bank	Hospital unit which stores and distributes and may perform compatibility tests on blood and blood components exclusively for use within the hospital facilities, including hospital-based transfusion activities.  Note: Please refer also to definition of blood establishment	PIC/S Good Practice Guidelines for BEs: PE 005-4, 2021
Imputability	The likelihood that a serious adverse reaction in a recipient can be attributed to the blood or blood component transfused or that a serious adverse reaction in a donor can be attributed to the donation process.	Directive 2005/61/EC
Inspection	Formal and objective control according to adopted standards to assess compliance with relevant legislation and to identify problems.	EDQM Blood Guide, 21st ed 2023 (adapted)
Inspector/ assessor, lead	The lead inspector is responsible for coordinating the activity of the inspection team and presenting the findings and outcomes of the inspection.  Note: In smaller BEs often the inspections are carried out by a single inspector.	EuBIS Inspection Standards and Criteria, 2018
Inspectorate training programme	An inspectorate training programme covers general topics essential for the inspector, including principles of inspection techniques as well as specific and ongoing training.	EuBIS Inspection Standards and Criteria, 2018



TERM	DEFINITION	SOURCE/REFERENCE
ISBT 128	A standard for the identification, terminology, coding, and labelling for blood, cellular therapy and tissue products. When linear barcodes are used, Code 128 symbology is utilised.	AABB Standards, 33rd ed
Issue	The provision of blood or blood components for transfusion to a recipient.  Note: Issuing relates to the prescription of blood for a patient based on a clinical indication.	ISBT WP-QM
Label	An inscription affixed or attached to a unit of blood or a blood component, a tissue, a derivative, or a sample for identification.	AABB Standards, 33rd ed
Labelling	Information that is required or selected to accompany a unit of blood or blood component, a tissue, a derivative, or a sample, which may include content, identification, description of processes, storage requirements, expiration date, cautionary statements, or indications for use.	AABB Standards, 33rd ed
Mobile site	A temporary or movable place used for the collection of blood and blood components which is in a location outside of but under the control of the blood establishment.	Directive 2005/62/EC
Near-miss event	An unexpected occurrence that did not adversely affect the outcome but could have resulted in a serious adverse event.	AABB Standards, 33rd ed
Non-compliance	Failure to meet requirements or to adhere to applicable laws, regulations, or legal requirements.  Non-compliance can arise from intentional or unintentional actions or omissions and can also pose risks to patient safety and product quality.	ISBT WP-QM
Non-compliance, critical	Any non-compliance in a process or a written procedure which directly affects the safety of the donor or patient.	GMP; EuBIS Inspection Standards and Criteria, 2018
Non-compliance, major	A serious non-compliance in a process or a written procedure but does not on its own affect the safety of the donor or patient.	GMP, EuBIS Inspection Standards and Criteria, 2018
Non-compliance, other significant	A non-compliance in a system or process where there is insufficient information to classify it as a major or critical.  Note (EuBIS): There could be a combination of several other significant non-compliances, none of which on their own may be major or critical, but may together represent a major or critical non-compliance. These should be clearly explained and reported as such.	GMP, EuBIS Inspection Standards and Criteria, 2018
Non-conformaty	A deviation or departure from established standards, specifications, procedures, or requirements.  Non-conformance can result in products, processes or systems that do not conform to the prescribed criteria or established norms. It requires investigation, root cause analysis, and appropriate corrective actions.	ISBT WP-QM
Observation	An inadequacy in a system or process that is not a failure to comply with a standard.	EuBIS Inspection Standards and Criteria, 2018



TERM	DEFINITION	SOURCE/REFERENCE
Pathogen reduction	Exposure of blood components to a system designed to reduce the risk of transfusion-transmitted infections.	AABB Standards, 33rd ed
Preservation (of blood components)	The use of chemical agents, alterations in environmental conditions or other means during processing to prevent or retard biological or physical deterioration of blood or blood components.	EDQM Blood Guide, 21st ed 2023
Process/ in- process control	Checks performed during production in order to monitor and, if appropriate, to adjust the process and/or to ensure that the product conforms to its specification.  Note: The control of the environment or equipment may also be regarded as part of in-process control.	EudraLex Guidelines for GMP
Process parameter, critical	A process parameter, which is documented, whose variability has an impact on a critical quality attribute and therefore should be monitored or controlled to ensure the process produces the desired quality.  A critical quality attribute is defined as a physical, chemical, biological or	ICH Harmonized Tripartite Guideline Q8 ISBT WP-QM
	microbiological property or characteristic that should be within an appropriate limit, range, or distribution to ensure the desired product quality.	ISBI WF-QWI
Processing/ preparation	Any step in the preparation of a blood component that is carried out between the collection of blood and the issuing of a blood component.	Directive 2005/62/EC
Proficiency testing	Structured evaluation of laboratory methods that assesses the suitability of processes, procedures, equipment, materials, and personnel.	AABB Standards, 33rd ed
Qualification	As part of validation, qualification means the action of verifying that any personnel, premises, equipment or material works correctly and delivers expected results.	Directive 2005/62/EC
Quality assurance	All the activities from blood collection to distribution made with the object of ensuring that blood and blood components are of the quality required for their intended use.	Directive 2005/62/EC
Quality attributes, critical (CQA)	A physical, chemical, biological or microbiological property or characteristic that should be within an appropriate limit, range, or distribution to ensure the desired product quality.	ICH Q8(R2) Annex
	Note: Critical Quality Attributes (CQA) link quality attributes to clinical safety and efficacy of a bioproduct.	
Quality control	Part of Good Practice that is concerned with sampling, specifications and testing, as well as with the organisation, documentation and release procedures which ensure that materials are not released for use in preparation, and blood and blood components are not released for distribution, until their quality has been judged to be satisfactory and that the necessary and relevant tests have been carried out.	PIC/S Good Practice Guidelines for Blood Establishments
Quality control, internal (IQC)	Testing routinely performed on materials and equipment to ensure their proper function.	AABB Standards, 33rd ed
Quality indicators (QI)	Objective quality measures of key system elements, used to identify potential quality concerns and risks, and to monitor the changes over time.	ISBT WP-QM



TERM	DEFINITION	SOURCE/REFERENCE
Quality monitoring	That part of a quality assurance programme concerned with maintenance and improvement of quality which deals with the identification and use of indicators to detect variations from standards or specifications.	PIC/S GMP Guide for BEs, PE 005-4, 2021
Quality system / quality management system	The organizational structure, defined responsibilities, procedures, processes, and resources for implementing quality management.  This includes all activities which contribute to quality, directly or indirectly.	Directive 2005/62/EC (adapted)
Quarantine	Physical or other effective way, of isolation of blood components or products or incoming materials/reagents over a variable period of time while awaiting their acceptance, issuance or rejection.	Directive 2005/62/EC and 2004/23/EC (adapted)
Reagent	A substance used to perform an analytical procedure. A substance used (as in detecting or measuring a component or preparing a product) because of its biological or chemical activity.	AABB Standards, 33rd ed
Recipient	Someone who has been transfused with blood or blood components.	Directive 2005/61/EC
Record (noun)	Information captured in writing or through electronically generated media that provides objective evidence of activities that have been performed or results that have been achieved, such as test records or audit results. Records do not exist until the activity has been performed and documented.	AABB Standards, 33rd ed
Record (verb)	To capture information for use in records through writing or electronic media.	AABB Standards, 33rd ed
Record of audit, assessment or inspection	Report indicating findings/results of an inspection or audit.	ISBT WP-QM
Regulations	Rules promulgated by federal/national, state, regional or local authorities to implement laws enacted by legislative bodies.	AABB Standards, 33rd ed (adapted)
Release - of blood component	Process which enables a blood component to be released from a quarantine status by the use of systems and procedures to ensure that the finished product meets its release specification.	Based on PIC/S GP Guide for BEs, PE 005-4, 2021
Responsible person	The person designated by a blood establishment who is responsible for:  - ensuring that every unit of blood or blood components has been collected and tested, whatever its intended purpose, and processed, stored, and distributed, when intended for transfusion, in compliance with the laws in force  - implementing quality management system to ensure the safety, purity, and potency of blood and blood products  - providing information to the competent authority in the designation, authorisation, accreditation or licensing procedures  - and the implementation of other requirements specified in respective legislation.	Directive 2002/98/EC ISBT WP - QM
Risk assessment	Method to assess and characterise the critical parameters in all the activities of the quality system including functionality of equipment, systems or processes.	PIC/S GP Guide for BEs PE 005-4, 2021
Risk management	The systematic application of quality management policies, procedures, and practices to the tasks of assessing, controlling, communicating, and reviewing risk. Risk management should include risk assessment and risk mitigation.	FDA Guidance Q9, Quality Risk Management



TERM	DEFINITION	SOURCE/REFERENCE
Risk mitigation	Minimizing the effects of probable hazards by creating strategies to avoid, reduce, transfer or accept risk.	US National Institute of Standards and Technology, NIST SP 800-30 rev. 1
Sample/ specimen, blood	A small quantity of blood taken from a blood donor, donation or a patient for testing, retention or research purposes.	ISBT WP - QM
Self-audit, assessment or inspection	A process where a trained and competent individual or a team within an organization audits/assesses/inspects their own work or processes to ensure compliance with established standards, requirements, or procedures.	ISBT WP-QM
Serious adverse event (SAE) - for patient	Any untoward occurrence associated with the collection, testing, processing, storage and distribution, transfusion or administration, of blood and blood components that might lead to death or life-threatening, disabling or incapacitating conditions for patients or which results in, or prolongs, hospitalisation or morbidity.	WP-QM ISBT adapted from Directive 2002/98/EC
Serious adverse reaction (SAR) - for patient	An unintended response in donor or in patient associated with the collection or transfusion of blood or blood components that is fatal, life-threatening, disabling, incapacitating, or which results in, or prolongs, hospitalisation or morbidity	Directive 2002/98/EC
Specification	A description of the criteria that must be fulfilled in order to achieve the required quality standard.	Directive 2005/62/EC
Standard	The requirements that serve as the basis for comparison.	Directive 2005/62/EC
Standard operating procedure (SOP)	A document describing a regularly recurring operation that affects the quality of the process. Its purpose is to ensure that the operations are carried out correctly and in a consistent way.	EU Blood SOP Manual
Statistical process control (SPC)	The use of statistical techniques to control a process or production method.	American Society for Quality, glossary
Storage	Maintaining blood or blood products derived from human blood under appropriate controlled conditions until distribution.	ISBT WP-QM
Subcontractor	Any organisation that provides a service to a -BE on the basis of a contract or written agreement.	ISBT WP-QM
Supplier/ vendor	An entity that provides an input material or service.	AABB Standards, 33rd ed
Supplier /vendor qualification	An evaluation method designed to ensure that input materials and services (eg. materials, blood, blood components, tissue, derivatives, patient blood samples) obtained from a supplier meet specified requirements.	AABB Standards, 33rd ed
Technical expert	Individual with appropriate qualifications and experience to provide technical advice to a blood establishment or to an inspector of a relevant competent authority.	ISBT WP-QM
Traceability	The ability to trace each individual unit of blood or blood component derived thereof from the donor to its final destination, whether this is a recipient, a manufacturer of medicinal products or disposal, and vice versa.	Directive 2005/61/EC



TERM	DEFINITION	SOURCE/REFERENCE
Transfusion - autologous	Transfusion in which the donor and the recipient are the same person and in which pre-deposited blood and blood components are used.	Directive 2002/98/EC
Validation	The establishment of documented and objective evidence that the pre-defined requirements for a specific procedure or process can be consistently fulfilled.	Directive 2005/62/EC
Validation Plan	A description of the validation activities, responsibilities and procedures describing specifically how a certain validation is to be done.	ISBT WP - QM
Verification / confirmation	Confirmation by examination and provision of objective evidence that specified requirements have been met.	AABB Standards, 33rd ed

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