



Site visit inspection report on compliance with HTA minimum standards

The London Clinic

HTA licensing number 11052

Licensed for the

- **procurement, processing, testing, storage, distribution and import/export of human tissues and cells for human application under the Human Tissue (Quality and Safety for Human Application) Regulations 2007; and**
- **storage of relevant material which has come from a human body for use for a scheduled purpose**

25-26 October 2017

Summary of inspection findings

The HTA found the Designated Individual (DI), the Licence Holder (LH) and the premises to be suitable in accordance with the requirements of the legislation.

Although the HTA found that The London Clinic (the establishment) had met the majority of the HTA's standards, two minor shortfalls were found. They were in relation to an incomplete suite of risk assessments and inappropriate clean room procedures and clean room gowning.

Advice has been given relating to the Consent, Governance and Quality systems, Premises, Facilities and Equipment and Disposal standards, as well as advice on licence management.

Particular examples of strength and good practice are included in the concluding comments section of the report.

The HTA's regulatory requirements

The HTA must assure itself that the Designated Individual (DI), Licence Holder (LH), premises and practices are suitable.

The statutory duties of the DI are set down in Section 18 of the Human Tissue Act 2004. They are to secure that:

- the other persons to whom the licence applies are suitable persons to participate in the carrying-on of the licensed activity;
- suitable practices are used in the course of carrying on that activity; and
- the conditions of the licence are complied with.

The HTA developed its licensing standards with input from its stakeholders. They are designed to ensure the safe and ethical use of human tissue and the dignified and respectful treatment of the deceased. The HTA inspects the establishments it licenses against four groups of standards:

- consent
- governance and quality systems
- premises facilities and equipment
- disposal.

This is an exception-based report: only those standards that have been assessed as not met are included. Where the HTA determines that a standard is not met, the level of the shortfall is classified as 'Critical', 'Major' or 'Minor' (see Appendix 2: Classification of the level of shortfall). Where HTA standards are fully met, but the HTA has identified an area of practice that could be further improved, advice is given to the DI.

Reports of HTA inspections carried out from 1 November 2010 are published on the HTA's website.

Licensable activities carried out by the establishment

'E' = Establishment is licensed to carry out this activity.

'E*' = Establishment is licensed to carry out this activity but is not currently carrying it out.

'TPA' = Third party agreement; the establishment is licensed for this activity but another establishment (unlicensed) carries out the activity on their behalf.

Tissue Category; Tissue Type	Procurement	Processing	Testing	Storage	Distribution	Import	Export
Mature Cell, T Cell (DLI); DLI	E	E	E/TPA	E	E	E*	E
Progenitor Cell, Hematopoietic, Bone Marrow; Bone Marrow	E	E	E/TPA	E	E	E*	E
Progenitor Cell, Hematopoietic, PBSC; PBSC	E	E	E/TPA	E	E	E*	E

Background to the establishment and description of inspection activities undertaken

This report refers to the activities carried out by The London Clinic (the establishment). The establishment's arrangements under this licence cover a hub and satellite site. The hub site consists of the processing, storage and testing facilities. The satellite site consists of the outpatient clinic, apheresis unit and the operating theatre complex.

The establishment was issued an HTA licence in August 2006 and was re-licensed following a move to new premises in December 2009. This was the sixth HTA site visit inspection of the establishment (the last inspection was in September 2015). The current inspection was a routine one to assess whether the establishment is continuing to meet the HTA's standards.

The establishment is licensed under the Human Tissue (Quality and Safety for Human Application) Regulations 2007 (Q&S Regulations) for the procurement, processing, testing, storage, distribution and import/export of tissues and cells for human application. The establishment is also licensed for the storage of relevant material for use for a scheduled purpose under the Human Tissue Act 2004 (HT Act). Although licensed for this activity, the establishment does not currently store relevant material for use for a scheduled purpose (see *Advice*, item 1).

The establishment is also accredited by the Joint Accreditation Committee - European Society for Blood and Marrow Transplantation (EBMT) and the International Society for Cellular Therapy (ISCT) (JACIE) and was last inspected by this organisation in July 2016. In addition, the pathology unit (which includes the Microbiology Department) is accredited by the United Kingdom Accreditation Service (UKAS) to International Organization for Standardization (ISO) standard 15189 (2012) and was last inspected by this organisation in July 2016.

The DI is a Consultant Haematologist, the Corporate LH (CLH) is The London Clinic and the CLH Contact (CLHC) is the Matron and Director of Nursing. There are four Persons Designated (PDs) working under the licence: the Coordinator of Transplant Services, the Stem Cell Manager/interim Quality Manager, the Deputy Stem Cell Manager and the Pathology Quality Manager.

The London Clinic undertakes the collection of bone marrow (BM), peripheral blood stem cells (PBSC) and donor lymphocytes (for donor lymphocyte infusion, DLI). The majority of collections are from healthy volunteer donors on behalf of Anthony Nolan (AN) and the British Bone Marrow Registry (BBMR), which jointly form the 'AN and NHS Stem Cell Registry', although there are also collections on behalf of the Deutsche Knochenmarkspenderdatei German Marrow Donor Programme (DKMS). Collections are under the terms of agreements, including service level agreements (SLAs). The London Clinic also collects autologous or directed, related donor BM, PBSC or donor lymphocytes for transplantation at the establishment.

Tissue-typed ('matched') unrelated BM, PBSC and umbilical cord blood (UCB) donations for transplantation at The London Clinic are managed by AN and BBMR under the terms of SLAs and such collections take place at other centres.

Procurement

Donor selection (medical assessment) and consent for BM, PBSC and donor lymphocyte collections, as well as for mandatory serology tests, takes place in the outpatient clinic. Patients are consented by trained consultants working to well-defined procedures (see *Advice*, item 2). In the case of directed, related donations, medical assessments are conducted by an independent qualified medical practitioner. A single consent form is used, which records consent for cell mobilisation, collection, processing, testing, storage and disposal (after 10 years).

Samples for mandatory serology testing are taken up to 30 days prior to cell collection and are transported by establishment staff to the Microbiology Department.

The apheresis unit contains five apheresis machines. Following collection, cells are packaged and transported by establishment staff to the processing facility using validated procedures. Transplant products are returned to the transplant unit using similar validated procedures. Reagents and consumables for apheresis are stored in a secure, temperature-monitored storage area.

There are ten operating theatres and two of these are used for BM procurement. Following collection, cells are packaged and transported by establishment staff to the processing facility. Reagents and consumables are stored in a secure, temperature-monitored storage area in one of the operating theatres.

Processing

Cells are only processed once serology results are available.

The processing facility consists of a clean room containing one aseptic laboratory. The laboratory contains two laminar air flow cabinets capable of maintaining a grade A processing environment against a background of grade B. Temperature-sensitive reagents and consumables are stored in an alarmed and monitored refrigerator.

Environmental monitoring is performed at rest and during processing activities and particle counts are reviewed after each procedure (see *Advice*, item 7).

The facility is cleaned daily, with additional deep cleaning procedures performed on a monthly basis. Cleaning agents are rotated regularly to ensure effective decontamination.

The facility performs total nucleated cell count, CD34 and CD45 immunophenotype, and cell viability assays for each collection. Human leukocyte antigen tissue typing is carried out at the Royal London Hospital. Sterility analysis (for both bacteria and fungi), haematocrit levels and blood group analysis are performed in the pathology unit. Chimerism analysis is performed at the Royal Marsden Hospital.

Processing produces both cryobags and ampoules ('pilot samples') for each collected unit. Pilot samples allow for quality control analysis during the processing, storage and thawing steps. Tests on pre-apheresis, pre-processed and pre-cryopreservation product are performed, as appropriate, as well as tests on the product prior to transplant. The establishment has acceptance and release criteria for cell transplant based on the above set of markers. Products with minimal cell counts are disposed.

Cryopreservation and Storage

Cryopreservation of products and pilot samples takes place in a dedicated, validated position within a -80°C freezer using dimethyl sulphoxide/plasma as the cryoprotectant. There is freezing profile for each unit. Following cryopreservation, products and pilot samples are stored in the liquid nitrogen storage area in the vapour phase of one of six liquid nitrogen storage vessel (cryovessels). Serologically positive products are stored in a separate, 'quarantine' cryovessel.

Once serology and environmental monitoring data have been reviewed, along with processing records, by the Stem Cell Manager, products are designated and approved for release.

All storage containers, including cryovessels, freezers and refrigerators, are linked to a continuous temperature-monitoring unit that feeds into a wireless callout system. Temperature excursions outside the set ranges trigger both audible alarms and the callout system and the system is tested regularly. There are fixed oxygen depletion monitors linked to an alarm system in the liquid nitrogen storage area and staff carry portable monitors.

The cryovessels are linked to an automated filling system. They are subject to an annual service under contract and an SLA is in place with an HTA-licensed establishment for emergency, off-site storage.

The London Clinic also carries out processing, cryopreservation and storage for a separate HTA-licensed establishment ('procurement centre') under the terms of an SLA. Collections from the procurement centre are transported by courier using well-defined, validated procedures.

The London Clinic occasionally distributes products for transplant to a private hospital under the terms of an end user agreement (see *Advice*, item 3). Transport is arranged by the recipient centre.

Testing

Samples are tested in the Microbiology Department using CE-marked diagnostic kits on automated testing equipment according to the manufacturers' instructions. Antibody tests for a range of viruses and bacteria, including HTLV-1, HIV-1 and 2, HBsAg, HBc, HCV and T. pallidum are carried out. The Department routinely takes part in external quality assessment schemes for the above tests.

Confirmatory serology and Nucleic Acid Amplification Technique (NAT) testing (including HEV NAT testing) is carried out by an external organisation under the terms of a third party agreement (TPA; see *Advice*, item 4).

The timetable for the site visit inspection was developed after consideration of the establishment's previous inspection reports, communications with the HTA since the last inspection and annual activity data. The inspection included a visual inspection of the outpatient clinic, apheresis and transplant units, operating theatre complex, processing facility, storage area and the Microbiology Department. Discussions and interviews were held with key staff and documentation was reviewed. Interviews were held with the DI, CLHC, all PDs, a senior nurse in the apheresis unit, a senior scientist in processing facility, and the chief Biomedical Scientist (BMS) and senior BMS in the Microbiology Department.

Audits of traceability were carried out:

- Three cryobags containing PBSC donations were selected at random from the cryovessels and storage location and labelling details were compared to the records in the register and on the electronic database. The following information was cross-referenced: donor name, hospital identification number, date of procurement, cryobag number and cryovessel storage location. There were no discrepancies noted.
- The electronic and paper records of three donations to the registries were reviewed (two BM, one PBSC) along with two directed, related donations and all corresponding transplants. The following information was cross-referenced, where relevant: medical collection and donor/recipient consent forms, apheresis care plans and processing worksheets. The worksheets included: operators involved, cellular yields, reagent/consumable batch numbers, cryopreservation records, results of serological and microbiological analysis, environmental monitoring data and product labels. There were no discrepancies noted.

Inspection findings

The HTA found the DI and the CLH to be suitable in accordance with the requirements of the legislation.

Compliance with HTA standards

Human Tissue (Quality and Safety for Human Application) Regulations 2007 Standards

Governance and Quality

Standard	Inspection findings	Level of shortfall
GQ8 Risk assessments of the establishment's practices and processes are completed regularly and are recorded and monitored appropriately.		
a) There are documented risk assessments for all practices and processes.	There are risk assessments covering licensed activities in the processing facility and in the MicroBiology Department but risk assessments in the apheresis unit only cover Health and Safety matters.	Minor

Premises, Facilities and Equipment

Standard	Inspection findings	Level of shortfall
PFE2 Environmental controls are in place to avoid potential contamination.		
b) Where processing of tissues and / or cells involves exposure to the environment, it occurs in an appropriate, monitored environment as required by Directions 003/2010.	The practices described in the standard operating procedure (SOP), and observed by the inspection team, in the grade A laminar air flow cabinets and in the grade B laboratory were not consistent with the formal designation of these areas and could potentially lead to a risk of contamination.	Minor
c) There are procedures for cleaning and decontamination.	<u>Cleaning and decontamination</u>	
d) Staff are provided with appropriate protective clothing and equipment that minimise the risk of contamination of tissue and / or cells and the risk of infection to themselves.	Staff were observed to be wiping items into the grade A laminar air flow cabinet using a circular motion instead of the recommended linear wiping motion ensuring a new surface of the wipe is used on each occasion to prevent recontamination. <u>Protective clothing:</u> Gowning procedures were not always consistent with the requirements of a grade B laboratory. Staff were observed to be wearing disposable laboratory coats, although appropriate single trouser suits were available. The SOP describing the gowning procedure was not clear on the appropriate garments that needed to be worn.	

Advice

The HTA advises the DI to consider the following to further improve practices:

No.	Standard	Advice
1.	N/A	The DI is advised to consider revoking the licence held under the HT Act from the establishment's portfolio of HTA licences as this licence is not being used.
2.	C3(a), (b)	There is a detailed consent training programme for clinicians, including the use of a PowerPoint presentation, familiarity with the HTA Code of Practice on Consent (Code A) and being observed when seeking consent. The DI is advised to consider formalising and recording the consent refresher training in the same way.
3.	GQ4(k)	During the inspection, it was noted that the end user agreement with the private hospital was out of date and included the name of a previous DI. The DI is advised to ensure that this is updated accordingly.
4.	GQ5(b)	During the inspection, it was noted that the TPA with the external testing organisation did not include the activity of donor HEV NAT testing. The DI is advised to ensure that this is updated accordingly.
5.	GQ8(c)	Although staff can access risk assessments, the DI is advised to consider introducing a system where staff 'sign-off' that they have read and are familiar with risk assessments, similar to the process used for SOPs.
6.	PFE1(a)	During the inspection, it was noted that there was a crack in the floor of the liquid nitrogen storage area. The DI is advised to ensure this is repaired before it becomes a hazard in terms of hygiene or trips.
7.	PFE2(b)	The SOP 'SC.LAB.SOP.L33: How to use the particle monitoring system' gives two sets of values for maximum permitted number of particles 'at rest' and 'in operation' in the grade A and B areas. These do not correspond to the limits set out in the European Guide to Good Manufacturing Practice (GMP), Annex 1 of Directive 2003/94/EC and should be amended accordingly.
8.	D2(a)	During the inspection, it was noted that some of the disposal forms for 2014-15 had not been signed. The DI is advised to consider including completion of disposal forms in the audit schedule.

Concluding comments

During the inspection, areas of strength and good practice were noted:

- There is a dedicated team with good lines of communication between staff performing licensed activities.
- There are frequent meetings, including meetings with the apheresis team from the procurement centre.
- The internal audit programme is detailed and thorough and includes vertical audits (including patient/donor records) for each cell type processed and stored and procedural audits to assess adherence to SOPs and ensure continued staff competency.
- There is a detailed staff induction and training programme, which includes observation, supervised working and competency assessment (with quizzes) prior to sign-off.

There are a number of areas of practice that require improvement, including two minor shortfalls. The HTA has given advice to the DI with respect to the Consent, Governance and Quality systems, Premises, Facilities and Equipment, and Disposal standards, as well as advice on licence management.

The HTA requires that the DI addresses the shortfalls by submitting a completed corrective and preventative action (CAPA) plan within 14 days of receipt of the final report (refer to Appendix 2 for recommended timeframes within which to complete actions). The HTA will then inform the establishment of the evidence required to demonstrate that the actions agreed in the plan have been completed.

The HTA has assessed the establishment as suitable to be licensed for the activities specified subject to corrective and preventative actions being implemented to meet the shortfalls identified during the inspection.

Report sent to DI for factual accuracy: 21 November 2017

Report returned from DI: 24 November 2017

Final report issued: 18 December 2017

Completion of corrective and preventative actions (CAPA) plan

Based on information provided, the HTA is satisfied that the establishment has completed the agreed actions in the CAPA plan and in doing so has taken sufficient action to correct all shortfalls addressed in the Inspection Report.

Date: 22 January 2019

Appendix 1: HTA standards

The HTA standards applicable to this establishment are shown below; those not assessed during the inspection are shown in grey text. Individual standards that are not applicable to this establishment have been excluded.

Human Tissue (Quality and Safety for Human Application) Regulations 2007 Standards

Consent

Standard
C1 Consent is obtained in accordance with the requirements of the HT Act 2004, the Human Tissue (Quality and Safety for Human Application) Regulations 2007 and as set out in the HTA's Codes of Practice.
a) If the establishment acts as a procurer of tissues and / or cells, there is an established process for acquiring donor consent which meets the requirements of the HT Act 2004 the Human Tissue (Quality and Safety for Human Application) Regulations 2007 (Q&S Regulations) and the HTA's Codes of Practice
b) If there is a third party procuring tissues and / or cells on behalf of the establishment the third party agreement ensures that consent is obtained in accordance with the requirements of the HT Act 2004, the Q&S Regulations and the HTA's Codes of Practice.
c) The establishment or the third party's procedure on obtaining donor consent includes how potential donors are identified and who is able to take consent.
d) Consent forms comply with the HTA Codes of Practice.
e) Completed consent forms are included in records and are made accessible to those using or releasing tissue and / or cells for a Scheduled Purpose.
C2 Information about the consent process is provided and in a variety of formats.
a) The procedure on obtaining consent details what information will be provided to donors. As a minimum, the information specified by Directions 003/2010 is included.
b) If third parties act as procurers of tissues and / or cells, the third party agreement details what information will be provided to donors. As a minimum, the information specified by Directions 003/2010 is included.
c) Information is available in suitable formats and there is access to independent interpreters when required.
d) There are procedures to ensure that information is provided to the donor or donor's family by trained personnel.
C3 Staff involved in seeking consent receive training and support in the implications and essential requirements of taking consent.
a) Staff involved in obtaining consent are provided with training on how to take informed consent in accordance with the requirements of the HT Act 2004 and Code of Practice on Consent.
b) Training records are kept demonstrating attendance at training on consent.

Governance and Quality

Standard
GQ1 All aspects of the establishment's work are supported by ratified documented policies and procedures as part of the overall governance process.
a) There is an organisational chart clearly defining the lines of accountability and reporting relationships.
b) There are procedures for all licensable activities that ensure integrity of tissue and / or cells and minimise the risk of contamination.
c) There are regular governance meetings, for example health and safety, risk management and clinical governance committees, which are recorded by agendas and minutes.
d) There is a document control system to ensure that changes to documents are reviewed, approved, dated and documented by an authorised person and only current documents are in use.
e) There are procedures for tissue and / or cell procurement, which ensure the safety of living donors.
g) There are procedures to ensure that an authorised person verifies that tissues and / or cells received by the establishment meet required specifications.
h) There are procedures for the management and quarantine of non-conforming consignments or those with incomplete test results, to ensure no risk of cross contamination.
i) There are procedures to ensure tissues and / or cells are not released from quarantine until verification has been completed and recorded.
j) There are procedures detailing the critical materials and reagents used and where applicable, materials and reagents meet the standards laid down by the European directives on medical devices and in vitro diagnostic medical devices.
k) There is a procedure for handling returned products.
l) There are procedures to ensure that in the event of termination of activities for whatever reason, stored tissues and / or cells are transferred to another licensed establishment or establishments.
m) The criteria for allocating tissues and / or cells to patients and health care institutions are documented and made available to these parties on request.
n) The establishment ensures imports from non EEA states meet the standards of quality and safety set out in Directions 003/2010.
o) There is a complaints system in place.
p) There are written agreements with third parties whenever an activity takes place that has the potential to influence the quality and safety of human tissues and / or cells.
q) There is a record of agreements established with third parties.
r) Third party agreements specify the responsibilities of the third party and meet the requirements set out in Directions 003/2010.
s) Third party agreements specify that the third party will inform the establishment in the event of a serious adverse reaction or event.

t) There are procedures for the re-provision of service in an emergency.
GQ2 There is a documented system of quality management and audit.
a) There is a quality management system which ensures continuous and systematic improvement.
b) There is an internal audit system for all licensable activities.
c) An audit is conducted in an independent manner at least every two years to verify compliance with protocols and HTA standards, and any findings and corrective actions are documented.
d) Processes affecting the quality and safety of tissues and / or cells are validated and undergo regular evaluation to ensure they continue to achieve the intended results.
GQ3 Staff are appropriately qualified and trained in techniques relevant to their work and are continuously updating their skills.
a) There are clearly documented job descriptions for all staff.
b) There are orientation and induction programmes for new staff.
c) There are continuous professional development (CPD) plans for staff and attendance at training is recorded.
d) There is annual documented mandatory training (e.g. health and safety and fire).
e) Personnel are trained in all tasks relevant to their work and their competence is recorded.
f) There is a documented training programme that ensures that staff have adequate knowledge of the scientific and ethical principles relevant to their work, and the regulatory context.
g) There is a documented training programme that ensures that staff understand the organisational structure and the quality systems used within the establishment.
h) There is a system of staff appraisal.
i) Where appropriate, staff are registered with a professional or statutory body.
j) There are training and reference manuals available.
k) The establishment is sufficiently staffed to carry out its activities.
GQ4 There is a systematic and planned approach to the management of records.
a) There are procedures for the creation, identification, maintenance, access, amendment, retention and destruction of records.
b) There is a system for the regular audit of records and their content to check for completeness, legibility and accuracy and to resolve any discrepancies found.
c) Written records are legible and indelible. Records kept in other formats such as computerised records are stored on a validated system.
d) There is a system for back-up / recovery in the event of loss of computerised records.

e) The establishment keeps a register of the types and quantities of tissues and / or cells that are procured, tested, preserved, processed, stored and distributed or otherwise disposed of, and on the origin and destination of tissues and cells intended for human application.
f) There are procedures to ensure that donor documentation, as specified by Directions 003/2010, is collected and maintained.
g) There is a system to ensure records are secure and that donor confidentiality is maintained in accordance with Directions 003/2010.
h) Raw data which are critical to the safety and quality of tissues and cells are kept for 10 years after the use, expiry date or disposal of tissues and / or cells.
i) The minimum data to ensure traceability from donor to recipient as required by Directions 003/2010 are kept for 30 years after the use, expiry or disposal of tissues and / or cells.
j) Records are kept of products and material coming into contact with the tissues and / or cells.
k) There are documented agreements with end users to ensure they record and store the data required by Directions 003/2010.
l) The establishment records the acceptance or rejection of tissue and / or cells that it receives and in the case of rejection why this rejection occurred.
m) In the event of termination of activities of the establishment a contingency plan to ensure records of traceability are maintained for 10 or 30 years as required.
GQ5 There are documented procedures for donor selection and exclusion, including donor criteria.
a) Donors are selected either by the establishment or the third party acting on its behalf in accordance with the criteria required by Directions 003/2010.
b) The testing of donors by the establishment or a third party on behalf of the establishment is carried out in accordance with the requirements of Directions 003/2010.
c) In cases other than autologous donors, donor selection is carried out by authorised personnel and signed and reviewed by a qualified health professional.
d) There is a system in place either at the establishment or at a third party acting on its behalf to record results of donor selection and associated tests.
e) Testing of donor samples is carried out using CE marked diagnostic tests.
f) Samples taken for donor testing are clearly labelled with the time and place the sample was taken and a unique donor identification code.
GQ6 A coding and records system facilitates traceability of tissues and / or cells, ensuring a robust audit trail.
a) There is a donor identification system which assigns a unique code to each donation and to each of the products associated with it.
b) An audit trail is maintained, which includes details of when the tissues and / or cells were acquired and from where, the uses to which the tissues and / or cells were put, when the tissues and / or cells were transferred elsewhere and to whom.

c) The establishment has procedures to ensure that tissues and / or cells imported, procured, processed, stored, distributed and exported are traceable from donor to recipient and vice versa.
GQ7 There are systems to ensure that all adverse events, reactions and/or incidents are investigated promptly.
a) There are procedures for the identification, reporting, investigation and recording of adverse events and reactions, including documentation of any corrective or preventative actions.
b) There is a system to receive and distribute national and local information (e.g. HTA regulatory alerts) and notify the HTA and other establishments as necessary of serious adverse events or reactions.
c) The responsibilities of personnel investigating adverse events and reactions are clearly defined.
d) There are procedures to identify and decide the fate of tissues and / or cells affected by an adverse event, reaction or deviation from the required quality and safety standards.
e) In the event of a recall, there are personnel authorised within the establishment to assess the need for a recall and if appropriate initiate and coordinate a recall.
f) There is an effective, documented recall procedure which includes a description of responsibilities and actions to be taken in the event of a recall including notification of the HTA and pre-defined times in which actions must be taken.
g) Establishments distributing tissue and / or cells provide information to end users on how to report a serious adverse event or reaction and have agreements with them specifying that they will report these events or reactions.
h) Establishments distributing tissues and / or cells have systems to receive notifications of serious adverse events and reactions from end users and notify the HTA.
GQ8 Risk assessments of the establishment's practices and processes are completed regularly and are recorded and monitored appropriately.
a) There are documented risk assessments for all practices and processes.
b) Risk assessments are reviewed regularly, as a minimum annually or when any changes are made that may affect the quality and safety of tissues and cells.
c) Staff can access risk assessments and are made aware of local hazards at training.
d) A documented risk assessment is carried out to decide the fate of any tissue and / or cells stored prior to the introduction of a new donor selection criteria or a new processing step, which enhances the quality and safety of tissue and / or cells.

Premises, Facilities and Equipment

Standard
PFE1 The premises are fit for purpose.
a) A risk assessment has been carried out of the premises to ensure that they are fit for purpose.
b) There are procedures to review and maintain the safety of staff, visitors and patients.
c) The premises have sufficient space for procedures to be carried out safely and efficiently.

e) There are procedures to ensure that the premises are secure and confidentiality is maintained.
f) There is access to a nominated, registered medical practitioner and / or a scientific advisor to provide advice and oversee the establishment's medical and scientific activities.
PFE2 Environmental controls are in place to avoid potential contamination.
a) Tissues and / or cells stored in quarantine are stored separately from tissue and / or cells that have been released from quarantine.
b) Where processing of tissues and / or cells involves exposure to the environment, it occurs in an appropriate, monitored environment as required by Directions 003/2010.
c) There are procedures for cleaning and decontamination.
d) Staff are provided with appropriate protective clothing and equipment that minimise the risk of contamination of tissue and / or cells and the risk of infection to themselves.
PFE3 There are appropriate facilities for the storage of tissues and / or cells, consumables and records.
a) Tissues, cells, consumables and records are stored in secure environments and precautions are taken to minimise risk of damage, theft or contamination.
b) There are systems to deal with emergencies on a 24 hour basis.
c) Tissues and / or cells are stored in controlled, monitored and recorded conditions that maintain tissue and / or cell integrity.
d) There is a documented, specified maximum storage period for tissues and / or cells.
PFE4 Systems are in place to protect the quality and integrity of tissues and / or cells during transport and delivery to its destination.
a) There is a system to ensure tissue and / or cells are not distributed until they meet the standards laid down by Directions 003/2010.
b) There are procedures for the transport of tissues and / or cells which reflect identified risks associated with transport.
c) There is a system to ensure that traceability of tissues and / or cells is maintained during transport.
d) Records are kept of transportation and delivery.
e) Tissues and / or cells are packaged and transported in a manner and under conditions that minimise the risk of contamination and ensure their safety and quality.
f) There are third party agreements with courier or transport companies to ensure that any specific transport conditions required are maintained.
g) Critical transport conditions required to maintain the properties of tissue and / or cells are defined and documented.
h) Packaging and containers used for transportation are validated to ensure they are fit for purpose.
i) Primary packaging containing tissues and / or cells is labelled with the information required by Directions.

j) Shipping packaging containing tissues and / or cells is labelled with the information required by Directions.
PFE5 Equipment is appropriate for use, maintained, quality assured, validated and where appropriate monitored.
a) Critical equipment and technical devices are identified, validated, regularly inspected and records are maintained.
b) Critical equipment is maintained and serviced in accordance with the manufacturer's instructions.
c) Equipment affecting critical processes and storage parameters is identified and monitored to detect malfunctions and defects and procedures are in place to take any corrective actions.
d) New and repaired equipment is validated before use and this is documented.
e) There are documented agreements with maintenance companies.
f) Cleaning, disinfection and sanitation of critical equipment is performed regularly and this is recorded.
g) Instruments and devices used for procurement are sterile, validated and regularly maintained.
h) Users have access to instructions for equipment and receive training in the use of equipment and maintenance where appropriate.
i) Staff are aware of how to report an equipment problem.
j) For each critical process, the materials, equipment and personnel are identified and documented.
k) There are contingency plans for equipment failure.

Disposal

Standard
D1 There is a clear and sensitive policy for disposing of tissues and / or cells.
a) The disposal policy complies with HTA's Codes of Practice.
b) The disposal procedure complies with Health and Safety recommendations.
c) There is a documented procedure on disposal which ensures that there is no cross contamination.
D2 The reasons for disposal and the methods used are carefully documented.
a) There is a procedure for tracking the disposal of tissue and / or cells that details the method and reason for disposal.
b) Disposal arrangements reflect (where applicable) the consent given for disposal.

Human Tissue Act 2004 Standards

Consent standards
C1 Consent is obtained in accordance with the requirements of the Human Tissue Act 2004 (HT Act) and as set out in the code of practice
<p>a) Consent procedures are documented and these, along with any associated documents, comply with the HT Act and the HTA's Codes of Practice.</p> <p>b) Consent forms are available to those using or releasing relevant material for a scheduled purpose.</p> <p>c) Where applicable, there are agreements with other parties to ensure that consent is obtained in accordance with the requirements of the HT Act and the HTA's Codes of Practice.</p> <p>d) Written information is provided to those from whom consent is sought, which reflects the requirements of the HT Act and the HTA's Codes of Practice.</p> <p>e) Language translations are available when appropriate.</p> <p>f) Information is available in formats appropriate to the situation.</p>
C2 Staff involved in seeking consent receive training and support in the essential requirements of taking consent
<p>a) There is suitable training and support of staff involved in seeking consent, which addresses the requirements of the HT Act and the HTA's Codes of Practice.</p> <p>b) Records demonstrate up-to-date staff training.</p> <p>c) Competency is assessed and maintained.</p>
Governance and quality system standards
GQ1 All aspects of the establishments work are governed by documented policies and procedures as part of the overall governance process
<p>a) Ratified, documented and up-to-date policies and procedures are in place, covering all licensable activities.</p> <p>b) There is a document control system.</p> <p>c) There are change control mechanisms for the implementation of new operational procedures.</p> <p>d) Matters relating to HTA-licensed activities are discussed at regular governance meetings, involving establishment staff.</p> <p>e) There is a system for managing complaints.</p>
GQ2 There is a documented system of audit
<p>a) There is a documented schedule of audits covering licensable activities.</p> <p>b) Audit findings include who is responsible for follow-up actions and the timeframes for completing these.</p>

GQ3 Staff are appropriately qualified and trained in techniques relevant to their work and are continuously updating their skills

- a) Qualifications of staff and all training are recorded, records showing attendance at training.
- b) There are documented induction training programmes for new staff.
- c) Training provisions include those for visiting staff.
- d) Staff have appraisals and personal development plans.

GQ4 There is a systematic and planned approach to the management of records

- a) There are suitable systems for the creation, review, amendment, retention and destruction of records.
- b) There are provisions for back-up / recovery in the event of loss of records.
- c) Systems ensure data protection, confidentiality and public disclosure (whistleblowing).

GQ5 There are systems to ensure that all adverse events are investigated promptly

- a) Staff are instructed in how to use incident reporting systems.
- b) Effective corrective and preventive actions are taken where necessary and improvements in practice are made.

GQ6 Risk assessments of the establishment's practices and processes are completed regularly, recorded and monitored

- a) There are documented risk assessments for all practices and processes requiring compliance with the HT Act and the HTA's Codes of Practice.
- b) Risk assessments are reviewed regularly.
- c) Staff can access risk assessments and are made aware of risks during training.

Traceability standards

T1 A coding and records system facilitates the traceability of bodies and human tissue, ensuring a robust audit trail

- a) There is an identification system which assigns a unique code to each donation and to each of the products associated with it.
- b) A register of donated material, and the associated products where relevant, is maintained.
- c) An audit trail is maintained, which includes details of: when and where the bodies or tissue were acquired and received; the consent obtained; all sample storage locations; the uses to which any material was put; when and where the material was transferred, and to whom.
- d) A system is in place to ensure that traceability of relevant material is maintained during transport.
- e) Records of transportation and delivery are kept.
- f) Records of any agreements with courier or transport companies are kept.
- g) Records of any agreements with recipients of relevant material are kept.

T2 Bodies and human tissue are disposed of in an appropriate manner

- a) Disposal is carried out in accordance with the HTA's Codes of Practice.
- b) The date, reason for disposal and the method used are documented.

Premises, facilities and equipment standards**PFE1 The premises are secure and fit for purpose**

- a) An assessment of the premises has been carried out to ensure that they are appropriate for the purpose.
- b) Arrangements are in place to ensure that the premises are secure and confidentiality is maintained.
- c) There are documented cleaning and decontamination procedures.

PFE2 There are appropriate facilities for the storage of bodies and human tissue

- a) There is sufficient storage capacity.
- b) Where relevant, storage arrangements ensure the dignity of the deceased.
- c) Storage conditions are monitored, recorded and acted on when required.
- d) There are documented contingency plans in place in case of failure in storage area.

PFE3 Equipment is appropriate for use, maintained, validated and where appropriate monitored

- a) Equipment is subject to recommended calibration, validation, maintenance, monitoring, and records are kept.
- b) Users have access to instructions for equipment and are aware of how to report an equipment problem.
- c) Staff are provided with suitable personal protective equipment.

Appendix 2: Classification of the level of shortfall (HA)

Where the HTA determines that a licensing standard is not met, the improvements required will be stated and the level of the shortfall will be classified as 'Critical', 'Major' or 'Minor'. Where the HTA is not presented with evidence that an establishment meets the requirements of an expected standard, it works on the premise that a lack of evidence indicates a shortfall.

The action an establishment will be required to make following the identification of a shortfall is based on the HTA's assessment of risk of harm and/or a breach of the Human Tissue Act 2004, Human Tissue (Quality and Safety for Human Application) Regulations 2007 or the HTA Directions.

1. Critical shortfall:

A shortfall which poses a significant risk to causing harm to a recipient patient or to a living donor,

or

A number of 'major' shortfalls, none of which is critical on its own, but viewed cumulatively represents a systemic failure and therefore is considered 'critical'.

A critical shortfall may result in one or more of the following:

- (1) A notice of proposal being issued to revoke the licence
- (2) Some or all of the licensable activity at the establishment ceasing with immediate effect until a corrective action plan is developed, agreed by the HTA and implemented
- (3) A notice of suspension of licensable activities
- (4) Additional conditions being proposed
- (5) Directions being issued requiring specific action to be taken straight away.

2. Major shortfall:

A non-critical shortfall.

A shortfall in the carrying out of licensable activities which poses an indirect risk to the safety of a donor or a recipient

or

A shortfall in the establishment's quality and safety procedures which poses an indirect risk to the safety of a donor or a recipient;

or

A shortfall which indicates a major deviation from the Human Tissue (Quality and Safety for Human Application) Regulations 2007 or the HTA Directions;

or

A shortfall which indicates a failure to carry out satisfactory procedures for the release of tissues and cells or a failure on the part of the designated individual to fulfil his or her legal duties;

or

A combination of several 'minor' shortfalls, none of which is major on its own, but which, viewed cumulatively, could constitute a major shortfall by adversely affecting the quality and safety of the tissues and cells.

In response to a major shortfall, an establishment is expected to implement corrective and preventative actions within 1-2 months of the issue of the final inspection report. Major shortfalls pose a higher level of risk and therefore a shorter deadline is given, compared to minor shortfalls, to ensure the level of risk is reduced in an appropriate timeframe.

3. Minor shortfall:

A shortfall which cannot be classified as either critical or major and which can be addressed by further development by the establishment.

This category of shortfall requires the development of a corrective action plan, the results of which will usually be assessed by the HTA either by desk-based review or at the time of the next inspection.

In response to a minor shortfall, an establishment is expected to implement corrective and preventative actions within 3-4 months of the issue of the final inspection report.

Follow up actions

A template corrective and preventative action plan will be sent as a separate Word document with both the draft and final inspection report. You must complete this template and return it to the HTA within 14 days of the issue of the final report.

Based on the level of the shortfall, the HTA will consider the most suitable type of follow-up of the completion of the corrective and preventative action plan. This may include a combination of

- a follow-up site visit inspection
- a request for information that shows completion of actions
- monitoring of the action plan completion
- follow up at next desk-based or site-visit inspection.

After an assessment of the proposed action plan the establishment will be notified of the follow-up approach the HTA will take.