

## Site visit inspection report on compliance with HTA minimum standards

## **Luton and Dunstable University Hospital**

## HTA licensing number 22605

### Licensed for the

 procurement, processing, testing, storage and distribution of human tissues and cells for human application under the Human Tissue (Quality and Safety for Human Application) Regulations 2007

## 13<sup>th</sup> May 2015

## Summary of inspection findings

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

Luton and Dunstable University Hospital (the establishment) was found to have met all HTA standards.

Particular examples of strengths 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, Licence Holder, premises and practices are suitable.

The statutory duties of the Designated Individual 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 licences 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.

Tissue type	Procurement	Processing	Testing	Storage	Distribution
Bone	E*		E*	E	E*
Tendons	E.		E*	E	E*
Chondrocytes	E*		E*	E*	E*

## Background to the establishment and description of inspection activities undertaken

Luton and Dunstable University Hospital (the establishment) is licensed under the Human Tissue (Quality and Safety for Human Application) Regulations 2007 for the procurement, testing, storage and distribution of bone and tendons. The establishment has not however performed procurement of either of these tissue types within the last year. This inspection therefore focussed on the only licensable activity currently performed by the orthopaedic department of the establishment, namely the storage of bone and tendons. Frozen bone products, primarily femoral heads and tendons, are purchased from NHS Blood and Transplant (NHSBT) Tissue Services. The activity of storage is licensable in this instance since their storage prior to use exceeds 48 hours.

The establishment is also licensed for the procurement of chondral tissue for use in Autologous Chondrocyte Implantation (ACI) for the repair of damaged knee cartilage. No samples have been procured by the establishment in the last two years. The DI has indicated that discussions are underway with the manufacturer of matrix-induced autologous chondrocyte implants so that this activity may recommence. The choice of supplier will guide standard operating procedures (SOPs) and staff training (refer to advice and guidance).

The establishment also stores demineralised bone products purchased from another HTAlicensed establishment. As storage of acellular products for end use is not currently regulated, the systems used for the storage of these samples were not assessed as part of this inspection.

Bone and tendons are stored in a freezer located outside theatre 5 in the surgical unit. Access to the department is controlled by staff security cards and the theatres are accessed by a keypad entry system. Tissue is delivered to the reception area outside the surgical unit. A member of the orthopedic team will sign for and collect the tissue. The delivery note is checked against the purchase order to verify receipt of the correct items and the integrity of the packaging is confirmed. Details of the tissue are documented in the Bone Register (refer to advice and guidance). Prior to a surgical procedure the orthopedic team will review a checklist to confirm the type and number of tissues required and that the appropriate stock is in place. The tissue is transferred to the operating theatre by a staff nurse. The surgeon, scrub nurse and circulating nurse independently confirm the details of the tissue. Any unused tissue is disposed of as clinical waste.

The establishment has been licensed since 2010. A routine inspection of the establishment took place on 13th May 2015. This was the third HTA inspection of the establishment that has taken place since the licence application. This is in accordance with the requirements of the Human Tissue (Quality and Safety for Human Application) Regulations 2007 which require all establishments in the human application sector to be inspected with a site visit every two years.

The inspection consisted of interviews with the Designated Individual (DI) and key staff members working under the licence, a review of relevant documentation and visual inspection of the premises. A traceability audit was conducted on two femoral heads and one strut graft stored in the freezer. Information on the tissue packaging was cross referenced against the details logged in the Bone Register. No discrepancies were found. It was noted that the product label for the strut graft recommended storage at -40°C with a three year expiry date. however, the freezer temperature is routinely recorded as -38°C (refer to advice and guidance). Details of three femoral heads used as implants were cross-checked against scanned patient records. There were difficulties in accessing the tissue traceability records electronically (refer to advice and guidance). Paper records for one of the implants were provided and no discrepancies were identified.

## **Inspection findings**

The HTA found the Designated Individual and the Licence Holder to be suitable in accordance with the requirements of the legislation.

### Compliance with HTA standards

All applicable HTA standards have been assessed as fully met.

### Advice

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

No.	Standard	Advice			
1.	GQ4e	Information on tissue receipt and use is recorded in the Bone Register, however the information is not always recorded consistently.			
		The DI is advised to have defined headings in the Bone Register so that all the information is fully captured. This should include for example, the identity of the			

		person receiving and logging the tissue, and the identity of individuals transferring the tissue to theatre.		
2.	GQ1d	The DI is advised to develop the SOP on sample receipt to reflect changes made to the Bone Register.		
3. PFE3d		The freezer temperature is set as -38°C. However, storage of the strut graft was labelled as -40°C for three years. The DI is advised to consult with NHSBT to determine whether the temperature of the freezer will have any effect on the storage and expiry date of the tissue.		
	25	The DI is advised to develop a SOP for ordering tissue which ensures that for each order, NHSBT are notified of the storage conditions at the establishment. Thus, a correct expiry date can be calculated for the supplied tissue.		
4.	PFE3c	The DI is advised to designate one compartment of the freezer as "use first" to ensure that products are placed and used in order of expiry date of the products.		
5.	GQ8a	The DI is advised to expand the risk assessment of practices and processes to include freezer contingency plans, packaging failure and transfer of stored tissue to operating theatres.		
6.	GQ1d	The establishment's Quality Manual lists all the relevant material under the Human Tissue Act 2004. The DI is advised to include a list of tissues and cells that are regulated under the Human Tissue (Quality and Safety for Human Application) Regulations 2007.		
7.	GQ7d	In the establishment's "Incident Reporting and Investigation of Incidents, Complaints, and Claims" the description of adverse incidents refers to HTA reportable incidents (HTARIs) in the post-mortem sector. The DI is advised to expand the description to include references to serious adverse events and serious adverse reactions (SAEARS).		
8.	GQ4b	The establishment has commenced storing all patient information electronically. During the inspection the traceability records could not be viewed. However, one paper record was available for inspection.		
		During this transition period, the DI is advised that audits are carried out on the scanned traceability records to ensure that relevant tissue implant information is recorded. Any non- conformances should be recorded on the establishment's incident reporting system (DATIX) so that issues may be raised and resolved.		
9.	GQ8q	Chondrocyte procurement may take place in the future. The DI is advised to carry out a risk assessment of this activity prior to recommencing this service. Once the DI has a confirmed date for the recommencing this activity the HTA should be informed of the plans.		

## **Concluding comments**

There were a number of strengths and areas of good practice observed during the inspection. There is good communication between the DI and the staff. Before a surgical procedure, the DI will check that staff are competent to work under the licence and handle tissue. The establishment makes use of a checklist to confirm whether tissue is required and available. If more than one product is requested, staff will thaw one tissue at a time to minimise wastage. Three independent checks are performed on the paperwork and tissues released for use, by the nurse retrieving the material from the freezer, the scrub nurse and consultant surgeon within theatre.

There are some areas of practice that may benefit from further improvement and the HTA has given advice and guidance to the DI with respect to these.

The HTA has assessed the establishment as suitable to be licensed for the activities specified

Report sent to DI for factual accuracy: 27th May 2015

Report returned from DI: No Factual accuracy or request for redaction comments were made by the DI.

Final report issued: 23<sup>rd</sup> June 2015

## **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 which are not applicable to this establishment have been excluded.

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

Standard	
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### 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.
- There are prosedures to ussue and the Management and the Base of Vital
- There are procedures for tissue and foliable to read to memon with the contract of the contract.
- 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.
- here are procedures detailing the critical materials and reagent used and where topicable tellinis and reagent meet the standards lord down by the European directives on medical new and in vitro diagnostic medical devices.
- K) There is a properties for handling returned proprints
- I) There are procedures to ensure that in the event of termination of activities for whatever real or stored assures and cor cells are transferred to another incersed establishment or extense in island to
- mil The criteria for all ocating tiscues and not cells to patients and health care the 1.1 or size a documented and made available to these parties on request
- in The establishment ensures imports from non-EEA states meet the star indicated and are set out in Directions 003/2010.
- o) There is a complaints system in place.
- In There are a consigneements with third parties whenever an activity take. Here the has he pollution remains a the quality and safety of human tissues and a crossle.
- III Thare is a record of agreements established with tilled exiting
- Third party experience specify the leaponsibilities of the third party and meet the requirements select in Directions 003:2010

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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.

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.
- i) 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.
- fil 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.
- Records are kent of products and material coming into contact with the tissues and you caus
- k) There are documented surfaments with let dissert to ensure they record and store the duta required by Directions 003-2040.
- I) 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.
- ii) Donors are selected either by the establishment or the trind party acting on its help 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 duried out in accordance with the requirements of Directions 003/2010.
- or 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 affine at the establishment or at a third party acting on its rehalf to record results of donor selection and associated tests.
- E) Testing of donor samples is carried out using QE marked diagnostic tests
- 5 Samples taken to donor testing are debrig wheled 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.

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.

## 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.

- d) Where appropriate there are procedures to ensure that the premises are of a standard that ensures the dignity of deceased persons.
- 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, if 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.
- a) There is a system to ensure tissue and for cells like not distributed until they meet the standards laid down by Directions 003/2010.
- b) There are procedures for the transport of tissues and / or relia which reflect identified risks associated with transport.
- if There is a system to ensure tool traceabuty of tissues and noncells is meintained during transport.
- d Records are kept of transportation and delivery.
- el Tissues and, or cella are packaged and transported in a manner and under conditions that minimise the rick of contamination and answer their safety and quellity.
- If There are third party auteements with course or transport companies to ensure that any specific transport conditions required are n aintalities.
- Critical transport conditions required to maintain the properties of tiasue and job cells are nelline, and documentari.
- b) Packaging and containers. Levo for transportation one validated to enumently, are first purpose

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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.

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- 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.

## 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 HT Act or associated Directions.

### 1. Critical shortfall:

A shortfall which poses a significant direct risk of 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 represent a systemic failure and therefore are 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 straightaway

## 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

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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;

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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 your proposed action plan you will be notified of the follow-up approach the HTA will take.