

Site visit inspection report on compliance with HTA minimum standards

Vindon Scientific Limited

HTA licensing number 22570

Licensed for the

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

25 October 2012

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.

Although the HTA found that Vindon Scientific Limited (the establishment) had met the majority of the HTA standards, two minor shortfalls were found in relation to; the absence of a documented risk assessment of storage of some samples with incomplete donor serology testing results, and; cleaning of a critical piece of equipment.

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 out in Paragraph 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.

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

Tissue type	Procurement	Processing	Testing	Storage	Distribution	Import*	Export *
umbilical cord blood	-	-	-	E	ТРА	-	-
umbilical cord tissue	-	-	-	E	ТРА	-	-
keratinocytes	-	-	-	E	ТРА	-	-

*The establishment is not currently importing or exporting tissues and cells

Background to the establishment and description of inspection activities undertaken

The establishment is licensed under the Human Tissue (Quality and Safety for Human Application) Regulations 2007 ('the Quality and Safety Regulations 2007') for storage, distribution, import and export of tissues and cells for human application. The establishment does not currently import or export tissues and cells for human application.

The establishment stores umbilical cord blood and cord tissue samples for other HTAlicensed establishments and European Union (EU) companies. The establishment also stores a keratinocyte cell culture for another HTA-licensed establishment, and cord blood samples for one family under a written agreement directly with them. Samples are stored in the vapour phase of liquid nitrogen. Clients provide donor consent and serology testing information prior to shipping samples for storage. Part of the establishment's agreements with its clients stipulates that clients will only supply samples from donors who are negative for the mandatory serological markers.

The establishment has been licensed by the HTA since May 2009. The HTA has a statutory duty to inspect establishments licensed under the Quality and Safety Regulations 2007 every two years. A routine site visit inspection of this establishment took place in November 2010. This report describes the second, routine, site visit inspection of the establishment in October 2012. The inspectors met with establishment staff, reviewed documentation and the laboratory information management system (LIMS), and visually inspected areas for storage and receipt of tissues and cells. Information pertaining to some minor shortfalls identified at the 2010 site visit inspection was reviewed to confirm these had been met. The LIMS and dispatch records for one of the cryovials of cells released for use were audited, and found to be incomplete (see advice item 4).

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

Governance and Quality

Standard	Inspection findings	Level of shortfall
GQ1 All aspects of the establishment's work are supported by ratified documented policies and procedures as part of the overall governance process.		
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.	The establishment stores cord blood samples for one donor whose serology testing was not carried out in accordance with EU Tissues and Cells Directives (EUTCD) requirements. The samples are	Minor

stored in a liquid nitrogen tank with samples from donors who were serologically tested in accordance with EUTCD requirements, but are in a separate tray, and all samples are in the vapour phase of the tank. The establishment considers that these measures adequately mitigate any theoretical risk to the quality and safety of the samples with full corelogy testing. There	
measures adequately mitigate any	

Premises, Facilities and Equipment

PFE5 Equipment is appropriate for use, maintained, quality assured, validated and where appropriate monitored.		
f) Cleaning, disinfection and sanitation of critical equipment is performed regularly and this is recorded.	The cryocart used during transfer of samples between a dry shipper and a liquid nitrogen tank is not cleaned and disinfected prior to, or after, use. The cryocart is considered to be a piece of critical equipment and represents a potential source of contamination prior to sample storage.	Minor

Advice

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

No	Standard	Advice
1.	GQ1c	The DI is advised that the weekly team meetings that are taking place should be minuted. Review of the minutes from previous team meetings helps to ensure that outstanding actions are followed through to their completion.
2.	GQ1I	The establishment has a written agreement with another HTA-licensed establishment for the transfer of stored tissues and cells in the event of termination of licensable activities. The number of such samples stored by the establishment has grown substantially since the agreement was written, and continues to do so. The DI is advised to periodically review its contingency arrangements so that, if licensable activities cease, the establishment(s) receiving the samples have sufficient cryostorage capacity to accept them.
3.	GQ3h	The DI is advised to continue with her efforts to develop a system for staff performance appraisals, based on the new 'roles and responsibilities' documents that have been introduced.
4.	GQ6b	One client establishment provides cryostorage bags containing several cryovials of cells from a single donor, for storage. The establishment's LIMS contains information on numbers and positions of cryostorage bags, but cannot currently

		record the removal of one or more cryovials from a bag. This is a potential risk to tissue traceability. The DI is advised to continue with plans to purchase a system that will record the release and dispatch of cryovials from a cryostorage bag in the LIMS. In the interim, the DI may wish to consider using a free text box in the LIMS to record the removal of individual cryovials.
5.	GQ8a, PFE1f	The DI is advised to approach the establishment's scientific advisor for expert advice when it updates its risk assessments for practices and processes, and to develop a protocol for cleaning of the cryocart.
6.	PFE3c	The DI is advised to add the upper and lower temperature limits for the liquid nitrogen tanks to the daily check sheets, so staff can confirm that readings remain within the correct range.
7.	PFE4h	The DI is advised to validate any dry shippers purchased by the company in the future before their use.
8.	-	The DI is advised to refer to the 'Guide to the quality and safety of human tissues and cells for patient treatment' for the regulatory requirements for import of human tissues and cells for human application.
		http://www.hta.gov.uk/_db/_documents/Annex _Guide_to_Quality_and_Safety_Assurance_for_Tissues_and_Cells_for_Patient_Tr eatment.pdf
		The sections on end user agreements, and reporting of serious adverse events and adverse reactions by end users, are of specific relevance.

Concluding comments

Despite the two minor shortfalls, several areas of strength were identified. Quality management is to a high standard, with detailed standard operating procedures (SOPs) relating to licensable activities. The DI audits client establishments regularly to verify the records held by them on donors and samples are correct. The premises are secure, well maintained and suitably monitored.

Points of good practice noted include:

- Staff undertake validation exercises against new SOPs to demonstrate their understanding of them. Staff who fail an exercise receive further training and take a new validation exercise;
- The establishment supplements its sample receipt and handling SOP with tailored 'work instructions' for each client, to ensure samples are being handled in line with their specific requirements.

A number of areas of practice require improvement, including two minor shortfalls. The HTA has given advice to the DI regarding governance and quality systems, and premises, facilities and equipment standards.

The HTA requires that the Designated Individual 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: 16 November 2012

Report returned from DI: 29 November 2012

Final report issued: 4 December 2012

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: 17 February 2013

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

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. 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 guarantine 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 guarantine until verification has been completed and recorded. k) There is a procedure for handling returned products. I) 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. n) The establishment ensures imports from non EEA states meet the standards of guality and safety set out in Directions 003/2010. o) There is a complaints system in place. 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.

k) There are documented agreements with end users to ensure they record and store the data required by Directions 003/2010.

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.

GQ5 There are documented procedures for donor selection and exclusion, including donor criteria.

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.

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.

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.

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.

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.

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.

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

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 afailure 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.