

COSHH risk assessments are available for viewing on request and located in the DR, ASL & HAU Office

- 1. Academic Head of Unit:** Professor D. Ceri Davies
- 2. Courses Undertaken :** UG MBBS and BSc Courses and External Courses
- 3. Location of the Practical Class (s):** Rooms 13L05 (Anatomy Skills Lab), 14L09 (Dissecting Room), 11L07 (Pathology Museum & Seminar Room)
- 4. Persons at Risk:** Imperial College & NHS Staff, Demonstrators, Students and External Course participants
- 5. Description of Practical Class (s):** Practical sessions as part of the MBBS, other Imperial undergraduate courses, and external courses that use whole cadavers, parts and bones (handling & dissection) and use of other relevant learning materials to teach Human Anatomy and Pathology.
- 6. General Control Measures:**

- a. **All Staff, students and authorised visitors must read and abide by the contents of the Induction documents available on the HAU Health and Safety Pages available on the A-Z directory before entering any HAU area. [HAU Health & Safety Documents - Imperial A-Z Directory](#) (Login required)**
- b. **First Aid** – HAU staff must be informed of all injuries/incidents and near misses, these must be reported on SALUS.
- c. **Fire Safety** – All persons must follow the fire evacuation procedures outlined in the HAU induction documents. Any person with concerns over evacuation procedures must advise the HAU manager and ensure that a Personal Emergency Egress Plan is in place.
- d. **All persons must wear Personal Protective Equipment** i.e. Plastic gown, nitrile gloves and safety spectacles. Double gloving may be necessary and additional PPE will be available for thorax and abdomen dissection sessions. Students will be made aware of these extra precautions at the start of the class. Advise a member of HAU staff if skin irritation occurs through use of gloves.
- e. **A high standard of Hygiene is required** to avoid exposure to biological and chemicals hazards. **Eating, drinking, chewing of gum or application of cosmetics is strictly forbidden.**
- f. **All teaching materials must be used with care** and any breakages or faults must be reported to HAU staff who will take the appropriate action to repair or remove the materials.
- g. **Waste** - PPE, soiled paper etc. must be discarded into orange clinical waste bags/yellow bins.
- h. **Hands must be washed** before leaving the dissecting room

7. Hazards:

<u>Hazard</u>	<u>Risk Matrix Rating</u>	<u>Control Measures and Emergency Actions</u>
7a) Cadaveric Tissue Exposure to hazardous chemicals: e.g. phenol, formaldehyde, alcohol from embalming and preservation fluids by inhalation, ingestion, skin or eye contact.	3	Controls: Wear PPE provided at all times. This includes thumb loop gowns, gloves and safety glasses, change PPE when necessary. Remove excess fluid from workstation with paper tissue, inco-pads or suction and use 'good housekeeping' at all times. HAU Staff will monitor record and check ventilation system is working. Report any ventilation faults or elevated fume levels to HAU staff. Actions: Use additional extraction outlets or cease work if formaldehyde readings are above 2ppm Wash affected skin if exposed (follow COSHH form procedures), use polyethylene glycol to deactivate residual phenol if exposure occurs. Seek first aid/ medical attention.
7b) Museum Pots Exposure to hazardous chemicals: e.g. Glycerol, Sodium Acetate and Formaldehyde by inhalation, ingestion, skin or eye contact.	3	Controls: If a museum pot is found to be leaking remove excess fluid with paper tissue and ensure a high standard of hygiene is maintained. Notify a member of HAU staff immediately. Actions: Wash affected skin if exposed (follow COSHH form procedures). Seek first aid/ medical attention.

<p>7c) Exposure to human bone dust from sawing, cutting or drilling cadaver bones.</p>	<p>3</p>	<p>Controls: Wear PPE (thumb loop gown, gloves and glasses) – change when necessary. Wear surgical face masks to prevent inhalation of aerosols & dust. Provide tools with localised extraction where possible. Dampen bone to minimise airborne particles.</p> <p>Actions: Seek first aid/medical attention</p>
<p>7d) Potential exposure to biological Hazards</p>	<p>3</p>	<p>Controls: All accepted cadavers have been screened, through known medical records, to avoid acceptance of donors with infections that may place attendees at risk. Cadavers with a history of dementia are not used for any CNS work. Students & HAU Staff are monitored by Occupational Health.</p> <p>Actions: Seek first aid/ medical attention. Contact Occupational Health/safety Department for assistance.</p>
<p>7e) Injury from sharp instruments, tools and bone edges or fragments</p>	<p>3</p>	<p>Controls: Double glove during thorax and abdomen teaching sessions as advised. Students must not dissect unless supervised by a demonstrator or HAU staff member. 'Safe dissection technique' must be and the least hazardous instrument for the task used. Use of excessive force must be avoided, needles must not be re sheathed and pins must be removed from tissues. Avoid wearing loose/ hanging clothing such as ties, jewellery etc. Tie back long hair and wear closed toe shoes that protect the dorsum of the foot. Avoid contact with sharp bone edges, smooth with rasp if necessary.</p> <p>Actions: If injury occurs seek first aid/ medical attention.</p>
<p>7f) Manual Handling of museum pots, cadavers/parts and other teaching resources.</p>	<p>3</p>	<p>Controls: Persons must not lift museum pots or cadavers unsupervised. HAU staff must be consulted if manual handling is required. All persons must follow risk assessments and the approved manual handling technique. Lifting and transport aids must be used where possible.</p> <p>Actions: If injury occurs, seek first aid/ medical attention.</p>
<p>7g) Injury caused by slips and trips</p>	<p>3</p>	<p>Controls: Inform HAU staff of any liquid or tissue on the floor. Do not allow tissue or cloth wraps to overhang the dissecting table edge. Do not place cables in high traffic areas. Tape down to the floor or use suitable rubber cable protectors. No unapproved footwear to be worn at any time.</p> <p>Actions: Seek First Aid/ Medical attention. Clean up any spillages with inco pads and/or mop and bucket and cordon off area until floor is dry and deemed safe.</p>
<p>7h) Injury caused by illness or fainting</p>	<p>4</p>	<p>Controls: Staff are advised of the procedures for dealing with illness or fainting. Persons are advised to inform their demonstrator / HAU staff / fellow participants if they feel unwell. HAU staff must be made aware of any incidents and the persons involved are not allowed to leave the area without permission from a staff member.</p> <p>Actions: Seek First Aid/ Medical Attention if necessary</p>
<p>7i) Injury caused from use of microscopes and slides</p>	<p>3</p>	<p>Controls: Ensure no faulty or exposed wiring is present. Annual electrical testing is to be undertaken on each microscope. Microscopes should be switched off when not in use. Only intact slides should be used, any broken slides should be disposed of in a sharps bin. Any faults or bulb failures should be reported to HAU staff</p> <p>Actions: Seek First Aid/ Medical Attention as necessary</p>

Risk Matrix table

Assess risk using the matrix below to obtain a value for Severity and Probability. ADD the two scores to give the overall risk score. A score of 3 or less is Low Risk.

Category	Severity – Example	Score
MINOR	Superficial injuries – cuts, bruises, mild skin irritations, mild aches and pains requiring first aid only. Minor property damage.	1
SERIOUS	More Serious injuries or ill health requiring time off work / study or a hospital visit. More serious property damage.	2
MAJOR	Broken limbs, amputations, long-term health problems resulting from work or acute illness requiring medical treatment, loss of consciousness, electric shock, loss of sight. Major property damage.	3
FATAL	Injury or ill health that leads to death either at the time or soon after an incident, or eventually, as in the case of certain occupational health disease such as asbestos related cancers.	4
Category	Severity – Example	Score
VERY UNLIKELY	Good control measures are in place. Controls do not rely on a person using them. Controls are unlikely to break down. People are rarely in this area or engage in this activity.	1
UNLIKELY	Responsible control measures are in place but rely on a person using them. Controls unlikely to breakdown. People are not often in this area/ do not engage in this activity often / situation is unlikely	2
POSSIBLE	Inadequate controls are in place, or likely to breakdown if not maintained. Controls rely on person compliance. People are sometimes in this area/engage in this activity/ this situation sometimes arises	3
LIKELY	Poor or no controls in place. Heavy reliance on personal compliance. People are often in this area/ engage in this activity/ this situation often arises.	4

9. Accident / Near Miss Reporting: Always report an accident / near miss immediately to your supervisor or local safety co-ordinator / lab manager for reporting and investigation.

Professor of Anatomy – Head of Unit

Name: D. Ceri Davies

Signature

Date:

Faculty Safety Advisor

Name: Heather Combe

Signature

Date: