

NDMRB-RA-103

Risk Assessment: Working with human blood, blood derived products, other bodily fluids and tissue

Scope:

Handling of human blood samples, blood derived products, other bodily fluids and human tissue for sample processing, culture of human cells, magnetic separation of human cells, staining human cells with antibodies.

A varying amount of work takes place within the TDI with the aforementioned substances. Members of staff carrying out work on these types of samples must inform the lab manager before work commences and submit a COSHH health surveillance/health record registration form for occupational health to determine if health surveillance is required. If members of staff are working frequently with human blood, blood derived products, other bodily fluids and tissue then it is recommended that they are immunised against hepatitis B

All staff are to be aware of spill containment procedure and disposal routes for these types of samples. All safety documentation, including in house COSHH are to be read and understood before work commences.

This replaces TDI-RA-043

Name of assessor:	Roman Fischer, Tiph Bouriez-Jones, Andrea Keepence-Keyte, Haddy Fye	Date of Assessment:	July 2016	Review Date:	Every 3 years
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Risk Matrix:

Risk Matrix		Likelihood			
		High	Medium	Low	Negligible
Consequence	Severe	High	High	Medium	Effectively Zero
	Moderate	High	Medium	Medium/low	Effectively Zero
	Insignificant	Medium/Low	Low	Low	Effectively Zero
	Negligible	Effectively Zero	Effectively Zero	Effectively Zero	Effectively Zero

Risk Assessment:

Hazard (Cause and consequence)	Affected Groups	Existing controls	Risk	Further Action
Contact with potentially infectious samples	Staff and students	<p>Employ good laboratory practices and clean all work surfaces prior to and after work with 70% ethanol solution.</p> <p>All waste to be collected in incineration/clinical bins and disposed of via the clinical waste route. Liquid waste must be treated with 1-2% Virkon for 30min to 1hr prior to being disposed of in the sink with copious amount of water. See below for clarification.</p> <p>Wearing of lab coat, gloves and eye protection at all times.</p> <p>Blood samples must be worked with in a biological safety cabinet to avoid exposure to aerosols.</p> <p>User must be familiar with emergency procedures in case of exposure or spill.</p> <p>If centrifuging, all lids must be used to contain any possible spills or leaks. When the samples have finished spinning, the lid must be removed inside the BSC. Do not over fill centrifuge tubes, ≤75% full is recommended. Small scale use; avoid use of sharps.</p>	Medium	<p>All staff to be trained before commencing any biological work.</p> <p>Hepatitis B immunisation recommended</p>

Waste disposal:

- Human tissue samples, large and small amounts of blood, blood derived products, other bodily fluids and/or urine needs to be disposed in sealed tubes in clinical waste (yellow sharp bin).
- Other liquid waste containing small fraction of human blood (culture) should be treated with 1% Virkon for a least 30min prior to being disposed of down the drain with copious amount of water
- All consumables that have come in contact with human blood must be disposed of using the clinical waste bin (yellow sharp bin).

Signed By Author:

Approved by (sign and print):

Reviewed by:

Review date: