Risk Assessment for School Science Activities

Name and nature of activity	Performing a kidney dissection	Performing a kidney dissection	
Location and date of activity			
Name of teacher/technician	Science ASSIST example risk assessment		
Activity type	☑Technician procedure ☑Teacher demonstration ☑Student activity – Student year group		
Physics and general equipment	Type of hazard Controls and other measures		
PPE (Lab coat/apron, safety glasses and gloves Dissecting board Dissecting instruments: Forceps, Probe, Scissors, Scalpel (optional) Paper towel Newspaper	□ Radiation ionising laser □ Electrical Thermal □ Projectiles □ Sharps □ Other –	 ☒ Relevant signage ☐ Perspex safety shield ☒ Sharps container ☐ Glassware free from cracks or chips ☒ Safety glasses ☐ Thermally insulated gloves ☒ Other – Only staff attach/remove scalpel blades, using safe procedures or use disposable scalpels. See extra comments below 	
Chemicals used and produced	Type of hazard	Controls and other measures	
Disinfectant – hospital grade, diluted according to manufacturer's instructions (Corrosive) 70% v/v ethanol (flammable)	☐ Explosive ☐ Acute toxicity ☐ Health hazards ☐ Chronic health hazards ☐ Gases under pressure ☐ Environmental ☐ Other —	□ Limit quantity/concentration □ Perspex safety shield □ Ventilation: natural/exhaust □ Fume cupboard □ Safety glasses □ Laboratory coat/apron □ Gloves: latex/nitrile/neoprene/PVC □ Safety shower □ Other –	
Biological/geological materials	Type of hazard	Controls and other measures	
Fresh sheep, cow or pig kidney.	 ☑ Biohazard ☑ Dust/aerosols ☑ Sharps ☑ Manual handling ☑ Other – 	☐ Steriliser ☑ Disinfectant ☑ Sharps container ☐ Dust mask ☑ Safety glasses ☑ Gloves ☑ Other – See comments below	
Waste produced	Waste disposal procedure		
Dissected animal tissue (kidneys) (bin) Used disinfectants (sink) Used or damaged scalpel blades (sharps container)	 ☑ Pre-treatment of waste – All parts of the kidney must be wrapped in newspaper and placed in a dedicated garbage bag. When waste is collected double bag for disposal in industrial bin. ☑ Sink with water – Used disinfectants ☑ Regular waste – Dissected animal tissue (kidney) ☐ Licenced hazardous waste company – ☑ Other – Used/damaged scalpel blades must be plased in an approved sharps container after use. 		
Standard Operating Procedures			
 I have read the relevant Standard Operating Procedure. I am experienced/trained in using all the equipment listed. All chemicals used and produced are approved for use. I have read the current SDSs for all hazardous chemicals used and produced. I am aware of safety guidelines for using all chemicals, materials and equipment. I will follow local guidelines for waste disposal (water authority, local council, EPA). I am aware of first aid procedures if required. 			
Other comments: Note that fainting may occur during this type of activity, so be familiar with first aid information. Offal that has passed a health inspection by a health inspector or procured from a butchers shop, abattoir or biological supplier is suitable for dissection. Store below 5°C prior to dissection. Use dissection scissors, instead of scalpels for students whenever possible.			
Conclusion: ☐ Risks not significant now and not likely to increase. ☐ Risks significant but effectively controlled at the moment. ☐ Risks significant and not adequately controlled at the moment. ☐ Uncertain about risks; more detailed assessment required.			
Assessment carried out by:Science AS	SIST Signature:	Date: Sept 2016	
Assessment approved by:	Signature:	Date:	
Next assessment due:			

This Risk Assessment assumes that the activity will be conducted in a science teaching area with the following facilities: electricity, running water, emergency shut-offs for electricity, gas if applicable, and water, regular testing and tagging of portable appliances; emergency contingencies such as evacuation/emergency plans, appropriate fire extinguishers, spill kits, hand washing facilities, eyewash/safety shower and first aid supplies. It is also assumed that all the necessary licencing requirements and approvals are obtained prior to the activity.