Activity -Based Risk Assessment Form

Name of Department	Paediatrics	Location of Lab	MD1 Level 15
Name of Laboratory	Paediatrics Lab	Name of Academic Supervisor	A/P Daniel Goh
Name of Researcher/LO	Liu Chun Ping, Grace Tan	Name of Activity/Experiment	Top-up of liquid nitrogen

1. Hazard Identification				2. Hazard Assessment				3. Risk Control		
No	Description/Details of Steps in Activity	Hazards	Possible Accident / Ill Health & Persons-at-Risk	Existing Risk Control (Mitigation)	Severity	Likelihood (Probability)	Risk Level	Additional Risk Control	Person Responsible	By (Date)
1	Assist in topping-up of liquid nitrogen	1. Extremely low temperature of liquid nitrogen can cause severe burn like damage to the skin, either via direct contact or via vapour. Contact of liquid nitrogen with objects at room temperature causes rapid boiling and splashing of liquid nitrogen.	Frost burn	1) Get on job training on handling liquid nitrogen, follow SOP. 2) Wear PPE - lab coat, covered shoes, cryo-gloves, safety glasses and full face shield. 3) Check that the dewar is in good condition, free from any cracks.	2	1	2			
		High concentrations of nitrogen may accumulate and subsequently displace air from the room, leading to an oxygen-deficient atmosphere.	Asphyxiation	1) Get on job training on handling liquid nitrogen, follow SOP. 2) Always handle liquid nitrogen in well ventilated areas. 3) Check that the dewar is in good condition, free from any cracks. 3) Oxygen deficiency detection system is installed.	3	1	3			

Conducted by (Name)	Liu Chun Ping	Grace Tan		Approved By	A/P Daniel Goh
				Signature	
Signature				Approval date	30-09-16
Date	01-09-16			Next Review Date	30-09-19