Infectious Disease Practice Drill and Refresher Training (Novel Coronavirus) 2020 Queen Elizabeth Hospital, Hospital Authority, HKSAR

	Accident and Emergency Department (A&E), Queen Elizabeth Hospital								
COVID-19	Central Nursing Division (CND), Queen Elizabeth Hospital								
Simulation	 Intection Control Leam (ICL), Queen Elizabeth Hospital Intensive Care Unit (ICL), Queen Elizabeth Hospital 								
Program	 Intensive Care Unit (ICU), Queen Elizabeth Hospital Isolation Ward, Oueen Elizabeth Hospital 								
Development	 Isolation Ward, Queen Elizabeth Hospital Kwong Wab Hospital Multi-disciplinary Simulation Training Control 								
Committee	 Multi-disciplination 	v Skills Simulation Centre (MDSSC) Queen Flizabet	h Hospital					
committee	 Quality and Safe 	 Multi-usciplinary skills simulation centre (MDSSC), Queen Elizabeth Hospital Quality and Safety (Q&S) Department, Queen Elizabeth Hospital 							
	1. To increase awar	eness in using appropriate	Personal Protective Four	ipment in performing					
	Aerosol Generated Procedure								
	2. To recognize basic hazards in Aerosol Generated Procedure								
	3. To describe the a	ppropriate Personal Protec	tive Equipment required	l in Aerosol Generated					
Learning	g 4. To demonstrate doffing of Personal Protective Equipment (PPE) properly								
Objectives	5. To communicate	with relevant people and ι	inits for transfer of suspe	ected Novel Coronavirus					
	Infectious case								
	6. To provide releva	nt information to the recei	iving unit						
	7. To identify lapse	lapse in infection control – buddy system							
	8. To recognize clea	n and dirty zone concept							
	Pre-requisite/ Before the training, all participants should:								
	Pre-reading: 🗸 complete basic infection control training within 24 months								
	✓ complete the Proficiency Test on Personal Protective Equipment within								
	24 months								
	¥	Watch education video or	ratch education video on "Transportation of Critically III Patient using						
Contonto		road bospital guideling ar	ortable Ventilator".						
Contents	v	and hospital guideline and worknow on inter-hospital transportation of on on a second case and intra-hospital transfer suspected case							
	 Scenario-based simulation training to increase staff awareness on the importance to use 								
	appropriate Personal Protective Equipment in Aerosol Generated Procedure (AGP) and								
	perform doffing of PPE appropriately								
	 Briefing of scenario, post-training de-briefing and discussion 								
	• Sharing common	pitfall in caring of patient d	uring aerosol generated	procedure					
Assessment	Direct observation by	instructors ± observers							
	• Evaluation forms (by Multi-disciplinary Simulation and Skills Centre)								
Evaluation	Personal Feedback								
	Instructor's Feedback								
Certificate of	Electronic Certificate	of Attendance would be av	warded to participants at	fter completion of the					
Achievement	training class								
Format of	In-situ: A&E, ICU; Lab	-based: Isolation Ward, Ge	neral Ward						
Iraining	405								
	A&E		Isolation Ward	General Ward					
	• A&E Doctor	Nurse In-charge Case Nurse	Nurse In-charge	Case Nurse					
	 Adde Nurse III- charge 	 Case Nurse Ward Nurse v2 	• Case Nurse • $\pm /$ Word Nurse	 Waru Nurse Darent Team 					
	• $\Delta \& F N ursp y ?$	 Parent Team 	 Parent Team 	Doctor					
Participants	Supporting Staff	Doctor	Doctor	 Anaesthetist and 					
(HOT Seats)			 Anaesthetist & 	OTA					
(nor seats)			OT assistant						
	No confederate	+ Patient Care	+ Patient Care	+ Parent Team					
		Assistant (as	Assistant (as	Doctor (as					
		confederate)	confederate)	confederate)					
	+ 2 Observers	+ 6 Observers	+ 12 Observers	+ 6 Observers					

Instructor	1. Certified	simulation instructors				
mstructor	2. Simulatio	on Instructor or Infection Control Link Nurse specialized in Infection Control				
	Duration	Content				
Duration	5 mins	Briefing/ Familiarization				
	15 mins	Scenario + Skills Practice on Doffing				
	40 mins	Debriefing, discussion and sharing of common pitfalls in caring of patient during AGPs				
	5 min	Evaluation & Questionnaire				
	Background fo	or A&E				
Scenarios (Respective Training Groups)	 1. A 72-year-old man with history of Diabetes Mellitus on regular Diamicron and Metromining 2. Triage 2.1. TOCC history was negative 2.2. Vital signs BP 128/70, P 110/min, Temp 37.9°C, SpO2 94% in room air, RR 24/min 2.3. Verbalized cough for 2 days without sputum. He had mild shortness of breath since the morning 3. Scenario 3.1. Waiting for doctor assessment in cubicle 3.2. Patient told the staff that he had travel history to China 3.2.1. sought medical advice and diagnosed as chest infection 3.2.2. refuse admission and return to HK 3.3. Increasing shortness of breath, desaturation 3.4. Elective intubation 3.5. Contact relevant staff and unit for arrangement patient transfer 3.6. Perform doffing Background for ICU A 72-year-old man with history of Diabetes Mellitus on regular Diamicron and Metformin On admission TOCC history was negative Vital signs BP 128/70, P 110/min, Temp 37.9°C, SpO2 94% in room air, RR 24/min Verbalized cough for 2 days without sputum. He had mild shortness of breath since the morning Histix HHH, urine ketone +++, ABG 7.02/4.5/10/24/-10 on 2L/min S. RFT 130/4.5/3.4/78 Inserted two large bores IV for insulin 2 units/hr infusion and 100ml/hr plasmalyte He told the staff that he had increasing SOB and some sweating Patient in Air-borne Infection Isolation Room and on 2L/min Oxygen via nasal cannula 					
	 Background for Isolation Ward (Air-borne Infection Isolation Room) 1. A 72-year-old man with history of Diabetes Mellitus on regular Diamicron and Metformin 2. On admission 2.1. TOCC (Travel Occupation Contact Clustering) history was positive, visited relatives in Wuhan, China one week ago 2.2. Vital signs BP128/70, P 110/min, Temp 37.9°C, SpO2 94% in room air, RR 24/min 2.3. Cough for 2 days without sputum and mild shortness of breath since morning 2.4. Awaiting Nasopharyngeal aspirates result. 3. Patient in Air-borne Infection Isolation Room and on 21 /min Oxygen via nasal cannula 					
	Background fo	or General Ward				
	 A 72-year-old man with history of Diabetes Mellitus on regular Diamicron and Metformin On triage / admission / transfer-in TOCC history was negative Vital signs RD 138/70, D 110/min, Tomp 37.0%, SpO2 04% in room air, RB 24/min 					
	2.3. Verbalized cough for 2 days without sputum. He had mild shortness of breath since the morning					
	2.4. ** Surgical Stream General Ward: Abdominal Pain; Back Pain; Head injury					
	3.1 Patient	3. Pre-Scenario				
	3.2. Conscious and alert GCS 15, On 4L/min oxygen therapy via nasal cannula. tiredness					
	3.3. Case Nurse go to bedside to take Blood Pressure					
	3.4. Patient verbalize shortness of breath, SpO2 88% (no sputum, dry cough), RR 24/min					
	3.5. Case Nurse Informed Medical Officer for desaturation					
	3.6. Phone order prepare for elective intubation 4. Scenario					
	4.1. Case Nu	rse activate resuscitation				
	4.2. Nurse B t	ansierred patient to designated single room then prepare equipment				

Checklist of Simulation Training

Items of the Checklist					Remarks
	Put on appropriate PPE for Suspected/ Confirmed Case		- Hand Hygiene - N95 - Face Shield		
Personal Protective Equipment			- Level III Gown		
			- Cap (Optional)		
			- Latex Gloves		
	Doffing of PPE		- Remove gloves		
			- Hand Hygiene		
			- Remove Face Shield		
			- Remove Cap		
			- Hand Hygiene		
			- Remove Gown		For A&E, remove
			- Hand Hygiene		N95 outside
			- Remove N95		Resuscitation
			- Hand Hygiene		Room
	Buddy System	usul Generale			
	buddy System	- Connect all	parts including bacterial filter		For General
		- Full PPF before high flow oxygen			ward, avoid
	High Flow Oxygen therapy	- Monitor for any leakage			high flow
		- Surgical Mask for patient over the nasal cannula or			oxygen therapy
Resuscitation –		oxygen mask			
Airway	Intubation	- Video-assisted laryngoscope			N/A for General
		- Disposable blade			ward
		- Sedation and Muscle relaxant			
		 Inflate the cuff of ET tube before connecting to 			
		Ventilator			For A & F
		- Alert others for suspected case identified			activate
					engagement
					light outside
	Communication				Resuscitation
					Room
Communication		- Closed loop communication			
and		- SBAR			
Information		- inform rele	valition		
	Information	- Patient Condition			
		- Precaution			
		- Designated passage away from overcrowded area			
		- Required Equipment			
		- Environmental Decontamination after			
		transportatio	วท		
	Concent of	- Proper doc	umentation		- For ICU and
		- Resuscitation trolley and equipment pool outside			isolation ward,
Other		All Koom			
					Room
Infection Clean and					- For A&E and
Control	Dirty Zone				General ward,
					document by
					"clean" nurse
		- Dirty Zone	provide care		
		- Clean Zone	for record and external communication		