

Post-registration Certificate Course in Intensive Care Nursing

16 Dec 2021 – 30 Jun 2022 (Deferred to 23 Sept 2022 due to emergency response level)

***This program is organized by Institute of Advanced Nursing Studies and
Conducted by Kowloon Central Cluster***

The Nursing Council of Hong Kong has approved the Hospital Authority as a provider to Continuing Nursing Education (CNE) since 1 December 2005

COURSE PROGRAM

Organized by

Institute of Advanced Nursing Studies, Hospital Authority

Conducted by

Kowloon Central Cluster

In Collaboration with:

Adult Intensive Care Unit, Alice Ho Miu Ling Nethersole Hospital
Adult Intensive Care Unit, Caritas Medical Centre
Adult Intensive Care Unit, North District Hospital
Adult Intensive Care Unit, Pamela Youde Nethersole Eastern Hospital
Adult Intensive Care Unit, Prince of Wales Hospital
Adult Intensive Care Unit, Princess Margaret Hospital
Adult Intensive Care Unit, Queen Elizabeth Hospital
Adult Intensive Care Unit, Queen Mary Hospital
Adult Intensive Care Unit, Ruttonjee & Tang Shiu Kin Hospital
Adult Intensive Care Unit, Tseung Kwan O Hospital
Adult Intensive Care Unit, Tuen Mun Hospital
Adult Intensive Care Unit, United Christian Hospital
Adult Intensive Care Unit, Yan Chai Hospital

With support in Clinical Practicum from Intensive Care Unit of:

Alice Ho Miu Ling Nethersole Hospital
Caritas Medical Centre
Kwong Wah Hospital
North District Hospital
Pamela Youde Nethersole Eastern Hospital
Prince of Wales Hospital
Princess Margaret Hospital
Queen Elizabeth Hospital
Queen Mary Hospital
Ruttonjee & Tang Shiu Kin Hospital
Tseung Kwan O Hospital
Tuen Mun Hospital
United Christian Hospital
Yan Chai Hospital

Name: _____

Hospital: _____

Post-registration Certificate Course in Intensive Care Nursing

CONTENT

PAGE

1.	Course Information	
	Aims	1
	Program Intended Learning Outcomes	1
	Duration	2
	Course Design	2
	Venue	2
	Teaching and Learning Strategies	3
	Target Participants	3
	Entry Requirements.....	3
	Pre-Requisites	3
	Exit Requirement	3
	Exemptions	3
	Class Capacity	4
	Program Development and Review Committee	4
	Program Directors	5
	Course Directors	5
	Administrative Support	5
	Visiting Lecturers	5
	Language Medium	6
	Assessment.....	6
	CNE.....	6
	Award of Certificate.....	6
2.	Course Content	7-9
3.	Speakers List	10-11
4.	List of Participants	12-13
5.	Clinical Practicum Allocation.....	14-16
6.	List of Mentors	17-18
7.	Timetable.....	19-24
8.	Assessment Scheme	25
9.	Guidelines for Patient Care Study & Group Project	25-27
10.	References	28-29

Post-registration Certificate Course in Intensive Care Nursing

16/12/2021 – 30 Jun 2022 (Deferred to 23 Sept 2022 due to emergency response level)

Organized by Institute of Advanced Nursing Studies and Conducted by Kowloon Central Cluster

COURSE INFORMATION

AIMS

1. Develop the competence of registered nurses in intensive care nursing in order to ensure a high standard of specialized care for critically ill patients
2. Provide interactive learning experience that will encourage nurses to develop the skills of analysis and critical awareness in order to stimulate an inquiry approach to both the theory and practice of critical care nursing
3. Develop the nurses' awareness of relevant evidence-based findings and facilitate integration of these findings into critical care nursing practice

PROGRAM INTENDED LEARNING OUTCOMES (PILOS)

Upon completion of this program, course participants will be able to:

1. Describe the pathophysiology, clinical manifestations, and treatment modalities of diseases/illnesses and conditions in intensive care
2. Demonstrate skills to perform advanced health assessment and assess the impact of multisystem disorders on the physiological condition of the critically ill patient
3. Analyze diagnostic findings, laboratory/ monitoring results and health assessment data of patients for making nursing judgments, identify the clinical (health) problems and communicate the significance and possible consequences to multidisciplinary team
4. Apply evidence-based knowledge to construct and evaluate holistic nursing care for patients requiring intensive care
5. Organize patient care management in terms of multidisciplinary approach and perform specialized skills in the provision of quality care for critically ill patients
6. Critically evaluate on-going therapeutic interventions and clinical outcomes of the care and treatment for patients requiring intensive care
7. Appraise nursing roles in critical care nursing and prepare for taking up advanced nursing practice, leadership, research & resource person roles in clinical setting
8. Discuss legal & ethical issues in critical care nursing and apply principles in the consideration of ethical dilemmas and legal implications in nursing practice
9. Appraise the use of evidence-based practice in addressing the patient's concerns and assisting the patient in making informed decision on treatment plan and health needs
10. Communicate patient's information & needs effectively to members in the multidisciplinary team
11. Critique methods for evaluating healthcare interventions and outcomes
12. Demonstrate ability to conduct innovative clinical projects and adopt appropriate research methodology to facilitate continuous quality improvement in the critical care specialty

DURATION

16/12/2021 – [23/09/2022](#)

COURSE DESIGN

This course composes of Theoretical Input (Module I & Module II) and Clinical Practicum.

A. Theoretical Input: 18 study days (lectures 0900 – 17:30)

Module I – Fundamental Module (3 study days + 1 hour Quiz) (Day 1 to Day 3)	
(a) 3 study day	16/12/2021, 23/12/2021, 30/12/2021 (7 hours/day)
(b) Quiz	20/01/2022 (AM) (1 hour)

Module II – Specialty – specific Module (15 study days) (Day 4 – Day 18)	
(a) 13 study days	20/01/2022, 27/01/2022, 10/02/2022, 17/02/2022, 24/02/2022, 03/03/2022, 10/03/2022, 24/03/2022, 31/03/2022, 07/04/2022, 14/04/2022, 21/04/2022 12/05/2022 02/06/2022, 09/06/2022, 16/06/2022, 23/06/2022, 30/06/2022, 07/07/2022, 14/07/2022, 21/07/2022, 11/08/2022 (7 hours/day)
(b) Written Examination	27/05/2022 24/08/2022 (AM) (3 hours)
(c) Group Project Presentation	30/06/2022 23/09/2022 (7 hours)

B. Clinical Practicum (12 weeks' net):

Period: 07/02/2022 to 20/02/2022; [23/05/2022](#) to 21/08/2022 (include 2 PHs; 3 Jun, 1 Jul 2022)

VENUE

A. Theoretical Input:

Study Day	Venue
Day 1 – 3:	Zoom at home
Day 4 (Quiz + Lectures):	Zoom at home
Day 5 - 15	
Day 16 (Workshop):	A&E Simulation Training Centre, 3/F & LG/F, Tang Siu Kin Hospital, Community Ambulatory Care Centre, 282 Queen's Road East, Wan Chai
Day 17 (Written Examination + Lectures):	AM: Lecture Theatre, M/F, Hospital Authority Building PM: Zoom at home
Day 18 (Group Project Presentation):	Zoom at home

B. Clinical Practicum Centers:

- Intensive Care Units of: AHNH, CMC, KWH, NDH, PMH, PWH, PYNEH, QEHD, QMH, RTSKH, TKOH, TMH, UCH & YCH

TEACHING & LEARNING STRATEGIES

- Lectures
- Group discussion
- Tutorials – scenario discussion
- Group projects (*including presentation*)
- Patient care study
- Debate session
- Skill workshop
- Case sharing & presentation in clinical practicum
- Clinical teaching & supervised clinical practice

TARGET PARTICIPANTS

Nurses in RN rank or above

ENTRY REQUIREMENTS

1. Registered nurses with valid practicing certificates issued by the Hong Kong Nursing Council
2. Nurses having not less than 24 months' post-registration experience
3. Priority will be given to nurses currently working in Intensive Care Units or related departments
4. Lower priority will be given to nurses who have enrolled in previous PRCC without successful completion

PRE-REQUISITES

Successful completion of the following training programs is required:

i) e-learning programme from HA e-Learning Centre (eLc):

- Nursing Care of Patient's with Mechanical Ventilation (2019); and
- Introduction to Pain Management; and
- Wound Management; and
- Principles in Legal Decision Making

ii) Classroom- based program

- Advanced Cardiac Life Support

EXIT REQUIREMENT:

- ECG course of not less than 8 hours in duration (Classroom-based program or Zoom based program) before [23 Sept 2022](#)

EXEMPTIONS

Potential participants who had successfully completed Fundamental Module of PRCC in Intensive Care Nursing within the last three years (2018 – 2021), i.e. 12/12/2018 – 23/01/2019 or 04/12/2019 – 08/01/2020 or 25/03/2021 – 15/04/2021 could be granted direct entry to Module II.

CLASS CAPACITY

69 nurses

PROGRAM DEVELOPMENT AND REVIEW COMMITTEE

HAHO	IANS	Ms. WONG Cheung Kwan, Cynthia	Head of IANS	Chairperson
	IANS	Mr. YU Man Kit	Manager (N), IANS	Program Director
HKEC	HKEC	Ms. LO Wan Po, Joanna	NC (Intensive Care)	
	PYNEH	Ms. KWAN Yuen Fan, Eva	DOM (ICU)	
	RTSKH	Ms. LEE On Kei, Angela	DOM (M&G, ICU)	
HKWC	QMH	Mr. YU Kin Yip, Kenneth	DOM (AICU)	
	QMH	Mr. LAI Chi Keung, Peter	NC (Intensive Care)	
KCC	QEH	Ms. LAM Chung Ling	DOM (ICU & CTS)	
	QEH	Ms. Ruby WONG	NC (Intensive Care)	Course Director
	QEH	Mr. Terry YAU	SNM (CND)	
	KWH	Ms. LEE Sui Fong	DOM (ICU)	
	KWH	Mr. HUI Tze Shau	SNO (CND)	Course Director
	KWH	Ms. KAI Shuk Yi	APN (ICU)	Course Director
KEC	KEC	Mr. HUI Chi Ming	NC (Intensive Care)	
	UCH	Ms. CHUNG Wai Yee	DOM (ICU)	
	TKOH	Ms. POON Yuk Chun	WM (MED-ICU/HDU)	
KWC	CMC	Ms. WONG Kit Fung, Gladys	DOM (ICU/HDU)	
	KWC & CMC	Ms. TSANG Po Yee, Angel	NC (Intensive Care)	
	PMH/ YCH	Ms. MAK Wai Ling	DOM (ICU)	
	KWC & PMH	Mr. LEUNG Kwok Cheung	NC (Intensive Care)	
NTEC	AHNH	Ms. TAM Yee Kwan	DOM (MED/ICU)	
	NDH	Ms. TANG Pui Yi	DOM (ICU)	
	PWH	Ms. HO Ka Man	DOM (A&ICU)	
	NTEC	Ms. POON Shing Tak, Toby	NC (Intensive Care)	
NTWC	TMH/ POH	Mr. MAK Chiu Ming	DOM (ICU/NEURO)	
	NTWC	Ms. CHAU Lai Sheung	NC (Intensive Care)	

PROGRAM DIRECTOR

Mr. YU Man Kit
Tel: 2300 7717

Manager (N), IANS
Email: yumk@ha.org.hk

COURSE DIRECTORS

Ms. KAI, Shuk Yi
Tel: 3517 8520

APN (ICU), KWH
Email: kaisy@ha.org.hk

Ms. Ruby WONG
Tel: 3506 2599

NC (Intensive), QEH / KCC
Email: whm989@ha.org.hk

Mr. HUI Tze Shau
Tel: 35175227

SNO (CND), KWH
Email: huits@ha.org.hk

ADMINISTRATIVE SUPPORT

Ms. Katherine YAN
Tel No.: 3517 5217

APN (CND), KWH
Email: byypk01@ha.org.hk

VISTING LECTURERS

HKEC	PYNEH	Ms. LO Wan Po, Joanna	NC (Intensive Care)
	PYNEH	Ms. LI Siu Chun	APN (ICU)
	PYNEH	Ms. YEUNG Mei Wa	APN (ICU)
	RTSKH	Mr. CHAN Ching Sum Sampson	APN (ICU) (Replaced Mr. LAWRENCE Domain John from 25/04/2022)
HKWC	QMH	Mr. LAI Chi Keung, Peter	NC (Intensive Care)
	QMH	Mr. KWOK Wing Kui	APN (AICU)
KCC	KWH	Mr. TO Tik Hang	APN (ICU)
	QEH	Ms. Jenny MA	APN (ICU)
KEC	TKOH	Ms. CHUN Ho Yee	APN (ICU/MED)
	UCH	Mr. HUI Chi Ming	NC (Intensive Care)
	UCH	Ms. SHANG Sheau Tyan, Catherine,	APN (ICU))
	UCH	Mr. CHAN Yui Fung	APN (ICU)
KWC	CMC	Ms. TSANG Po Yee, Angel	NC (Intensive Care)
	CMC	Ms. MAK Yim Ming	APN (ICU)
	CMC	Mr. LAM Yiu Ming, Terry	APN (ICU)
	PMH	Mr. LEUNG Kwok Cheung	NC (Intensive Care)
	PMH	Ms. LEUNG Wai See	APN (ICU)
	PMH	Mr. YIU King Kwan	APN (ICU)
	YCH	Ms. YIP Nga Shan	APN (ICU)
NTEC	AHNH	Ms. LEE Shuk Yin	WM (ICU)
	AHNH	Mr. LEUNG Kai Kwong	NS (ICU)
	NDH	Mr. LEUNG Chi Kwong, Ronald	APN (ICU)
	PWH	Ms. POON Shing Tak, Toby	NC (Intensive Care)
NTWC	TMH	Ms. CHAU Lai Sheung	NC (Intensive Care)
	TMH	Ms. PANG Chung Yan	APN (ICU)

LANGUAGE MEDIUM

Both English and Cantonese will be used in class; English will be used in all examinations and assignments.

ASSESSMENT

Items	Weighting	Date
A. Written Assessment		
1. Quiz in Fundamental Module	5 %	20/01/2022 (09:00 – 10:00)
2. Written Examination	55 %	24/08/2022 (09:00 – 12:00)
3. Group Project - Oral presentation - Written Assignment	20 %	23/09/2022 (09:00 – 17:30) ** Submission - Topic: on or before 30 Dec 2021, 1700 (Day 3) - Project outline: on or before 17 Feb 2022, 1700 (Day 7) - Project work (written assignment & presentation PowerPoint) on or before 01/09/2022 , 1700
4. Patient Care Study	20 %	Submission on or before 25/07/2022 , 1700
B. Continuing Clinical Assessment		Submission on 22/08/2022 , 1700

CNE POINTS

The course is equivalent to 360 CNE points.

Learning hours:

(Theoretical input : 126 hours CNE points: 126)

(Clinical practicum : 468 hours CNE points: 234)

Note: net 12 weeks' clinical practicum

AWARD OF CERTIFICATE

An e-Certificate will be awarded to those who have completed the course and passed all the course required assessments.

CONTENTS OF THE COURSE

The content covers the following three core elements:

(I) Care Management

1. Cardiovascular System:

- 1.1 Knowledge in the pathophysiology of complex cardiovascular conditions.
- 1.2 Managing clients with the following complex conditions:
 - 1.2.1 Arrhythmias and heart blocks
 - 1.2.2 Coronary artery disease and myocardial infarction
 - 1.2.3 Heart failure
 - 1.2.4 Hypertensive crisis
 - 1.2.5 Cardiac tamponade

2. Respiratory System:

- 2.1 Knowledge in the pathophysiology of complex respiratory conditions.
- 2.2 Managing clients with the following complex conditions:
 - 2.2.1 Acute respiratory failure
 - 2.2.2 Acute respiratory distress syndrome
 - 2.2.3 Pneumonia
 - 2.2.4 Obstructive lung disease
 - 2.2.5 Restrictive lung disease
 - 2.2.6 Acute pulmonary oedema
 - 2.2.7 Pneumothorax
 - 2.2.8 Pulmonary hypertension
 - 2.2.9 Pulmonary embolism

3. Neurologic System:

- 3.1 Knowledge in the pathophysiology of complex neurological conditions.
- 3.2 Managing clients with the following complex conditions:
 - 3.2.1 Seizure and status epilepticus
 - 3.2.2 Stroke
 - 3.2.3 Neuromuscular diseases
 - 3.2.4 Infections of neurologic system
 - 3.2.5 Intensive care delirium
 - 3.2.6 Potential brain stem death

4. Renal System:

- 4.1 Knowledge in the pathophysiology of complex renal conditions.
- 4.2 Managing clients with the following complex conditions:
 - 4.2.1 Acute kidney injury
 - 4.2.2 Electrolyte imbalance

5. Gastrointestinal System:

- 5.1 Knowledge in the pathophysiology of complex gastrointestinal conditions.
- 5.2 Managing clients with the following complex conditions:
 - 5.2.1 Acute gastrointestinal disorders and major gastrointestinal surgeries
 - 5.2.2 Intra-abdominal hypertension

6. Endocrine System:

- 6.1 Knowledge in the pathophysiology of complex endocrine conditions.
- 6.2 Managing clients with the following complex conditions:
 - 6.2.1 Hyperglycaemic emergencies
 - 6.2.2 Acute hypoglycaemia
 - 6.2.3 Syndrome of inappropriate antidiuretic hormone

- 6.2.4 Diabetes insipidus
- 6.2.5 Thyroid emergencies

7. Haematologic and Immunologic System:

- 7.1 Knowledge in the pathophysiology of complex haematologic and immunologic conditions.
- 7.2 Managing clients with the following complex conditions:
 - 7.2.1 Disseminated intravascular coagulation
 - 7.2.2 Immunodeficiency and immunosuppressive disorders

8. Multi-system and Trauma Care:

- 8.1 Knowledge in the pathophysiology of complex multi-system conditions and trauma.
- 8.2 Managing clients with the following complex conditions:
 - 8.2.1 Shock
 - 8.2.2 Systemic inflammatory response syndrome
 - 8.2.3 Multiple organ dysfunction syndrome
 - 8.2.4 Sepsis
 - 8.2.5 Anaphylaxis
 - 8.2.6 Cardiopulmonary arrest
 - 8.2.7 Poisoning and toxicity
 - 8.2.8 Thermal disorders
 - 8.2.9 Emerging and re-emerging infectious diseases

(II) Knowledge and Skill Application

1 Knowledge and clinical skills to perform:

- 1.1 Comprehensive assessment on cardiovascular, respiratory, neurologic, renal and gastrointestinal systems and multi-systems
- 1.2 Perform pain assessment, sedation level assessment and nutritional assessment.

2 Apply bedside monitoring devices and interpret related findings such as:

- 2.1 12-lead electrocardiogram and interpretation
- 2.2 Advanced haemodynamic monitoring and interpretation such as arterial blood pressure, pulmonary arterial pressure and cardiac output
- 2.3 Respiratory monitoring and interpretation such as oxygen saturation and waveform capnography

3 Interpret results of laboratory tests and findings of radiological investigations.

4 Apply advanced treatment modalities and evaluate clients' responses to the therapies such as:

- 4.1 Cardiac pacing
- 4.2 Invasive and non-invasive mechanical ventilation
- 4.3 Electrical therapy (defibrillation, synchronized cardioversion)
- 4.4 Continuous renal replacement therapy
- 4.5 Targeted Temperature Management

5 Apply knowledge in clinical pharmacology related to drugs commonly used in intensive care settings such as inotropes, vasoconstrictors, antiarrhythmic agents, neuromuscular blocking agents, analgesics, sedations, anti-infective agents and monitor drug effects to achieve pharmacological goals for the clients.

- 5.1 Titration of vasoactive agents
- 5.2 Titration of analgesics
- 5.3 Titration of sedatives

5.4 Special dosing considerations

6 Facilitate therapeutic interventions and / or implement strategies to stabilize critical health problems, manage clinical deterioration and prevent complications. Common interventions include:

- 6.1 Airway management
- 6.2 Management of difficult airways
- 6.3 Oxygen therapy
- 6.4 Tracheostomy care
- 6.5 Prone positioning for complex pulmonary disorders
- 6.6 Deep vein thrombosis prophylaxis
- 6.7 Parenteral and enteral nutrition
- 6.8 Bowel management
- 6.9 Glycaemic control
- 6.10 Massive blood transfusion
- 6.11 Resuscitation and post-resuscitation care
- 6.12 Management of poisoning and toxicity
- 6.13 Deceased organ donor management
- 6.14 Infection control measures
- 6.15 Care bundles adopted for prevention of specific healthcare-associated infections

7 Possess knowledge and capability to provide nursing management for the following conditions and interventions:

- 7.1 Aortic dissection
- 7.2 Aortic aneurysm
- 7.3 Cardiothoracic surgical disorders
- 7.4 Traumatic brain injury
- 7.5 Intracranial hypertension
- 7.6 Trauma
- 7.7 Burns injury
- 7.8 Spinal injury
- 7.9 Obstetrical emergencies
- 7.10 Acute head & neck disorders and major head & neck surgeries
- 7.11 Intra-aortic balloon pump
- 7.12 Intra-cranial pressure monitoring
- 7.13 Electroencephalography

8 Provide safe and seamless care during intra- or inter-facility transportation of critically ill clients.

(III) Therapeutic and Caring Relationship

Knowledge and skill to establish a therapeutic and caring relationship with clients and their significant others to enhance effectiveness of care and to achieve therapeutic goals.

Post-registration Certificate Course in Intensive Care Nursing (2022)

Organized by IANS & Conducted by KCC

(16/12/2021 – 23/09/2022)

Timetable

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00		11:15 - 12:15		12:15 - 13:15		14:15 - 15:15	15:15 - 16:15		16:30 - 17:30
Day 1 16/12/2021 (Thursday) Zoom at home	<u>09:00 – 09:45</u> Introduction Mr. M.K. YU Program Director IANS Ms. Ruby WONG NC(Intensive Care), QEH/KCC Ms. KAI Shuk Yi, APN, ICU KWH	<u>09:45 – 10:30</u> Total Patient Assessment Ms. POON Shing Tak NC(Intensive Care), PWH/NTEC	<i>B R E A K</i>	<u>10:45-11:30</u> Applied Cardiovascular Physiology Ms. CHIU Mei Fung, Wendy APN, ICU, CMC	<u>11:30-12:15</u> Cardiovascular Assessment in Critically Ill Patients Ms. MAK Yim Ming APN, ICU, CMC	<u>12:15-13:15</u> Management of Shock Mr. KWOK Wing Kui, APN, AICU, QMH	<i>L U N C H</i>	Advanced Hemodynamic Monitoring and related Nursing Care Mr. LEUNG Chi Kwong APN, ICU, NDH		<i>B R E A K</i>	Resuscitation Highlights Mr. LAI Chi Keung, Peter NC(Intensive Care), QMH/HKWC
Day 2 23/12/2021 (Thursday) Zoom at home	Applied Respiratory Physiology Ms. CHAN Mei Moon, APN, ICU, QEH	Respiratory Assessment and monitoring in Critically Ill Patients Ms. CHAN Mei Moon, APN, ICU, QEH	<i>B R E A K</i>	Interpretation of Common Laboratory Findings and ABG Interpretation Dr. SO Sheung On CON, ICU, QEH			<i>L U N C H</i>	<u>14:15 - 15:00</u> Oxygen Therapy and Humidification Ms. YIP Nga Shan APN, ICU, YCH	<u>15:00 – 15:45</u> Transport of Critically Ill Patients Mr. WONG Sai Leung APN, ICU, TMH	<i>B R E A K</i>	<u>16:00 - 17:30</u> Nursing Management on Patients Requiring Mechanical Ventilation Ms. YEUNG Mei Wa, APN, ICU, PYNEH
Day 3 30/12/2021 (Thursday) Zoom at home	Airway Management Mr. YIU King Kwan APN, ICU, PMH	Tracheostomy Care Mr. LAU Kwok Hei APN, ICU, UCH	<i>B R E A K</i>	Fluid and Electrolytes Management: Practical Issues Dr. SO Sheung On CON, ICU, QEH			<i>L U N C H</i>	Applied Neurological Physiology Ms. Vivian KWOK, NC(Stroke), KCC	Neurological Assessment in Critically Ill Patients Ms. Vivian KWOK, NC(Stroke), KCC	<i>B R E A K</i>	Non-invasive Mechanical Ventilation and Related Nursing Care Mr. NG Kwok Leung APN, ICU, UCH

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00		11:15 - 12:15	12:15 - 13:15		14:15 - 15:15	15:15 - 16:15		16:30 - 17:30
Day 4 20/01/2022 (Thursday) Zoom at home	Quiz	Nursing Perspectives on Pain Control and Analgesics Mr. LAWRENCE Damian John APN, ICU, RTSKH	B R E A K	Cardiac Conditions Requiring ICU Care: • Hypertensive Crisis • Cardiac Tamponade • Cardiovascular Drugs on various Cardiac Conditions Requiring ICU Care Dr. LIONG Ting CON, ICU, UCH		L U N C H	14:15 - 15:45 Applied Renal Physiology and Renal Assessment in Critically Ill Patients Dr. CHAN King Chung COS, ICU, TMH/POH		B R E A K	16:00 - 17:30 Management of Patients with Acute Kidney Injury Dr. MA Hei Yee AC, ICU, TMH
Day 5 27/01/2022 (Thursday) Zoom at home	Briefing on Clinical Practicum/Group Project/ Patient Care Study Ms. Ruby WONG, NC(Intensive Care), QE/KCC Ms. KAI Shuk Yi, APN, ICU, KWH	Parenteral Nutrition Dr. LAU Yue Ho, Vincent AC, ICU, PMH	B R E A K	Acute Respiratory Distress Syndrome and Common Acute Respiratory Conditions in ICU Dr. LAU Yue Ho, Vincent AC, ICU, PMH		L U N C H	14:15 – 15:45 Cardiac Conditions Requiring ICU Care: • ACS (including Thrombolytic therapy & Interventional Devices) • Heart Failure Dr. FONG, Man Chi Natalie AC, M&G, POH/TSWH & Visiting AC, ICU, NTWC		B R E A K	16:00 - 17:30 Common Radiological Investigation for Critically Ill Patients Dr. Bobby KING AC, ICU, KWH
Day 6 10/02/2022 (Thursday) Zoom at home	Understanding 12 Leads ECG and Interpretation (Pre-test and Lecture) Ms. CHAU Lai Sheung NC,(Intensive Care), TMH/NTWC		B R E A K	Cardiac Arrhythmias and Related Anti-Arrhythmic Drugs Dr. KWOK Ka Ming AC, ICU, UCH		L U N C H	14:15 – 15:00 Thermal Disorders: Heat Stroke and Hypothermia and Malignant Hyperthermia Dr. Kelvin LEUNG, AC, MED, TKOH	15:00 – 15:45 Target Temperature Management Dr. Kelvin LEUNG, AC, MED, TKOH	B R E A K	16:00 - 17:30 Pneumonia and Obstructive Lung Disease Dr. YUNG Sai Kwong, AC, ICU, QEH

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00	11:15 - 12:15	12:15 - 13:15	14:15 - 15:15	15:15 - 16:15	16:30 - 17:30	
Day 7 17/02/2022 (Thursday) Zoom at home	Endocrine Emergency <ul style="list-style-type: none"> Hyperglycemic Emergencies Acute Hypoglycemia SIADH, DI Thyroid Emergencies Glycaemic Control in ICU Dr. TANG Wai Ming CON, ICU, TMH	B R E A K	Common Neurological Disorder Requiring ICU Care: <ul style="list-style-type: none"> Neuromuscular Disorder (e.g. MG & GBS) Status Epilepticus Acute Infections (e.g. Meningitis, Brain Abscess, Encephalitis) Cardiovascular Accident Dr. Bobby KING AC, ICU, KWH	L U N C H	Nursing Management on Patients with Continuous Renal Replacement Therapy	B R E A K	IABP: Principles and Nursing Management Ms. MAK Pui Shan, Peggy APN, ICU, CMC	
Day 8 02/06/2022 (Thursday) Zoom at home	Interpretation of Ventilator Waveforms Mr. TO Tik Hang, Dicky, APN, ICU, KWH	B R E A K	<u>11:15 – 12:45</u> Neuro-surgical Conditions Requiring ICU Care Dr. WONG Kai Sing Alain, CON, NEURO, KWH	<u>12:45 – 13:15</u> Discussion on Group Project (Proposal by ICU Course Participants) Ms. Ruby WONG, NC(Intensive Care), QEH/KCC Ms. KAI Shuk Yi, APN, KWH	L U N C H	Sepsis, SIRS and MODS Dr. YUNG Sai Kwong, AC, ICU, QEH	B R E A K	Infection Control Measures in ICU Mr. Wong Wai Yin APN, ICN, TMH
Day 9 09/06/2022 (Thursday) Zoom at home	Case Discussion: Nursing Management of Patients with Cardiovascular Problems, Fluid and Electrolytes Management Mr. KWOK Wing Kui, APN, AICU, QMH Ms. CHAN Mei Moon, APN, ICU, QEH Ms. NG Kwan Ying, APN, ICU, NDH Ms. POON Shing Tak, NC (Intensive Care), PWH/NTEC Ms. CHAU Lai Sheung, NC (Intensive Care), TMH/NTWC	B R E A K	HBP Conditions Requiring Intensive Care: <ul style="list-style-type: none"> Biliary Sepsis Acute Pancreatitis Acute Hepatic Failure Dr. CHAN Ka Man Fiona AC, SURG, KWH	L U N C H	Ethical Issues in ICU Dr. LEUNG Kit Hung, ANNE, COS, ICU, QEH	<u>15:15 – 15:45</u> Discussion on Group Project Ms. Ruby WONG, NC(Intensive Care), QEH/KCC Ms. KAI Shuk Yi, APN, ICU, KWH	B R E A K	<u>16:00 – 17:30</u> Ethical Issues in ICU Mr. LAI Chi Keung, Peter, NC (Intensive Care), QMH/HKWC Mr. LEUNG Kai Kwong, NS, ICU, AHNH Ms. Jenny Ma APN, ICU, QEH Ms. LEUNG Wai See APN, ICU, PMH

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00		11:15 - 12:15	12:15 - 13:15		14:15 - 15:15	15:15 - 16:15		16:30 - 17:30
Day 10 16/06/2022 (Thursday) Zoom at home	Microbiology & anti-infective agents Dr. WAN Wing Lun AC, ICU, YCH		<i>B R E A K</i>	Emerging and Re-emerging Infectious Diseases Dr. CHAN Man Chun, Jacky, CON, M&G, PMH	Lung Mechanics and Ventilator Strategies Dr. TONG Wing Lok CON, ICU, KWH	<i>L U N C H</i>	<u>14:15 – 15:45</u> Clinical Application of Different Modes of Ventilation + Advance Mode Dr. AU Ka Fai AC, ICU, KWH		<u>16:00-17:30</u> Acute Lower Gastrointestinal Disorders and Related Major Gastrointestinal Surgeries Dr. MAK Wing Chung Tony CU Honorary (SURG), PWH	
Day 11 23/06/2022 (Thursday) Zoom at home	Cardiac Pacing: Principles and Nursing Management Mr. CHAN Yui Fung APN, ICU, UCH	Abdominal Aortic Aneurysm Dr. WONG Wai Chun, Maket, CON, SURG, KWH	<i>B R E A K</i>	Nursing Management of Patients Undergoing Cardiothoracic Surgeries and Patients with Aortic Dissection and Thoracic Aortic Aneurysm Ms. POON Shing Tak NC (Intensive Care), PWH/NTEC		<i>L U N C H</i>	<u>14:15 – 15:45</u> Acute Poisoning / Drug Overdose Dr. WONG Hiu Ming AC, ICU, UCH		<u>16:00 – 17:30</u> Management of Patients with Neurological Disorders and Related Nursing Care Ms. CHU Ngar Wan APN, A&ICU, PWH	
Day 12 30/06/2022 (Thursday) Zoom at home	Evidence Based Practice in Intensive Care Nursing Ms. LO Wan Po, Joanna, NC(Intensive Care), PYNEH/HKEC	Management of Critically III Patients with Rheumatic Diseases Dr. KWOK Yan Kitty AC, ICU, QEH	<i>B R E A K</i>	Trauma and Damage Control Resuscitation Ms. Annice CHANG, NC (Trauma), QEH		<i>L U N C H</i>	Nutritional Assessment and Enteral Nutrition Ms. Anna CHEUNG Dietitian, CMC	Nursing Roles in Drug Titration Ms. PANG Chung Yan, APN, ICU, TMH	 Acute Upper Gastrointestinal Disorders and Related Major Gastrointestinal Surgeries Dr. YIP Hon Chi AC, SURG, PWH	

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00		11:15 - 12:15	12:15 - 13:15		14:15 - 15:15	15:15 - 16:15		16:30 - 17:30
Day 13 07/07/2022 (Thursday) Zoom at home	Management of Critically Ill Patients with Hematological Disorders Dr. Saliangi WU AC, MED, QEHD	Spinal Injury and Spinal Conditions Requiring ICU Care Dr. LI Ka Kin Dep. COS, O&T, QEHD	<i>B R E A K</i>	Obstetrical Emergency Dr. LEUNG Wing Cheong, COS, O&G, KWH	Spinal Injury and Related Nursing Management Dr. TSANG Ka Kit, NC, O&T, KCC	<i>L U N C H</i>	14:15– 16:15 Nursing Management of Patients with GI Disorders • Assessment & General Care of Patients with GI Conditions • Intra-abdominal hypertension & Abdominal compartment Syndrome • Hepato-biliary-pancreatic conditions • Bowel Management Ms. WONG Hoi Yan, APN, ICU, PYNEH	<i>B R E A K</i>	Brain Stem Death and Deceased Organ Donor Management Ms. LEE Chung Yan, Margaret, APN, ICU, KWH	 Ms. PONG Mei Lan APN, CND, QEHD
Day 14 14/07/2022 (Thursday) Zoom at home	Nursing Management of a Critically Ill Patient from Admission to Transfer out of ICU Ms. CHAN Mei Moon, APN, ICU, QEHD (Leader) Mr. CHAN Yui Fung, APN, ICU, UCH Ms. CHUN Ho Yee, APN, MED, TKOH Mr. Sampson Chan, APN, ICU, RTS Ms. Jenny MA, APN, ICU, QEHD		<i>B R E A K</i>	11:15 – 12:15 Case Discussion: Nursing Management for Patients with Respiratory Problems and ABG Exercise Ms. Jenny MA APN, ICU, QEHD Ms. LEE Wai Chi, Rosanna NO, ICU, YCH	12:15 – 13:15 Acute Head and Neck Disorders and Major Head and Neck Surgeries Dr. LAU Chi Hung CON, SURG, QEHD	<i>L U N C H</i>	14:15 – 15:45 Psychological, Social and Spiritual Needs of ICU Patients / Family Acute Bereavement Care Ms. TANG Sau Chun APN, AICU, QMH	<i>B R E A K</i>	16:00 – 17:30 Burn Injury Mr. LAI Chi Keung, Peter, NC (Intensive Care), QMHDHKWC	
Day 15 21/07/2022 (Thursday) Zoom at home	KPI Dr. SHUM Hoi Ping, COS, ICU, PYNEH	10:00-11:30 Nursing Management to Patient with AAA and Head and Neck Surgeries Requiring ICU Care Ms. LEE Chung Yan, Margaret APN, ICU, KWH	<i>B R E A K</i>	11:45-12:45 Intensive Care Delirium, Sedatives and Muscle Relaxants Dr. DH KANDAMBY CON, ICU, YCH/PMH	12:45-13:15 EEG Ms. NG Tan Tan APN, EDU, QEHD	<i>L U N C H</i>	14:15 – 15:15 Administration of High Risk Medication in ICU Ms. LEE Chi Po, Janet, Pharmacist, PHAR, KWH	15:15-16:00 NSOI Ms. CHAN Mei Moon, APN, ICN, QEHD	16:00 – 16:45 Prone Positioning Ms. Cecila FUNG, APN, ICU, UCH	 17:00 – 17:30 Briefing on Workshop Ms. Ruby WONG, NC(Intensive Care), QEHD/KCC Ms. KAI Shuk Yi, APN

Date/Time/Venue	09:00 - 10:00	10:00 - 11:00	11:15 - 12:15	12:15 - 13:15	14:15 - 15:15	15:15 - 16:15	16:30 - 17:30	
Day 16 11/08/2022 (Thursday) A&E Simulation Training Centre, 3/F & LG/F, Tang Siu Kin Hospital			<u>09:00 – 13:15</u> (include 15 minutes' break)			<u>14:15 – 17:30</u> (include 15 minutes' break)		
			Intensive Care Workshop			Intensive Care Workshop		
			All visiting lecturers			All visiting lecturers		
Day 17 24/08/2022 (Wednesday) AM: Lecture Theatre, M/F, Hospital Authority Building PM: Zoom at home		<u>09:00 – 12:00</u> Written Examination (3 hrs.) Ms. Ruby WONG, NC (Intensive Care), QEH /KCC Ms. KAI Shuk Yi, APN, ICU, KWH		<u>12:15 – 13:15</u> Course Evaluation Ms. Ruby WONG, NC (Intensive Care), QEH/KCC Ms. KAI Shuk Yi, APN, ICU, KWH Mr. HUI Tze Shau SNM, CND, KWH		<u>14:15 – 15:45</u> Advanced technologies in ICU (ECMO, ASV mode, HBO, TPE, Cytosorb, Oxirus) Ms. Ruby WONG, NC (Intensive Care), QEH/KCC Mr. YEUNG Kai Jone, APN, ICU, PYNEH	<u>15:45-16:45</u> Incident and complaint management Mr. WONG Chi Wei SNO, Q&S, RTSKH	<u>17:00– 17:30</u> Course Evaluation Briefing on Group Project Ms. Ruby WONG, NC (Intensive Care) QEH/ KCC Ms. KAI Shuk Yi, APN, ICU, KWH
Day 18 23/09/2022 (Thursday) Zoom at home		<u>09:00-13:15</u> (include 15 minutes' break)			<u>14:15-17:30</u> (include 15 minutes' break)			
		Group Project Presentation			Group Project Presentation			
		All visiting lecturers			All visiting lecturers			

Assessment Scheme

A. Written Examination (Total 100%)

a)	Quiz on 20/01/2022 (Thursday)	(5%)
	Written Examination on 24/08/2022 (Wednesday)	(55%)
b)	Group Project with presentation (20%) Groups of course participants to work on one project with class presentation	
c)	Patient Care Study (20%) A care study to be completed by individual course participant	

B. Continuing Clinical Assessment (100%)

An ongoing continuous assessment during the clinical practicum period

Guidelines for Group Project

Course participants are required to work in groups (Maximum 7 members in each group) to do a project that aims to bring about improvement in patient care or clinical services, with an emphasis on integration of knowledge and practice in intensive care setting.

Target dates

Submission of Group Project: **on or before 01/09/2022, 1700**

Presentation of Group Project: **23/09/2022**

Suggested Format for Group Project

1. Cover page with the project title, name of course participants and their parent hospitals and word count
2. Table of contents
3. Introduction of the project
4. Rationale and significance
5. Project design & planning
6. Project implementation/ implementation plan
7. Discussion/ Evaluation of the implementation/ implementation plan
8. Recommendation & conclusion
9. References

Word Limit: 3,000 +/- 10%

Important points to note:

- The desirable presentation time for each group is 20 minutes.
- Course participants are encouraged to seek advice from the Course Directors and Visiting Lecturers regarding the group project.

Guideline for Patient Care Study

Course participants are required to identify the care issues of intensive care nursing and illustrate what they have learnt through the clinical practicum.

Target dates

- Submission of Patient Care Study to Mentor-in-charge: **on or before 25/07/2022, 1700**

Word limit: 3,000 +/- 10%

Criteria in selecting patient for the patient care study

1. The patient selected should be the one whom you have cared for during your clinical practicum.
2. You should have taken care of the selected patient during the acute stage for at least two shifts of duties.
3. It is advisable to present the patient care study in a form that illustrates the holistic nursing care.

Suggested Format for Patient Care Study

1. Cover page
 - include course file, assignment title, name +/- number of learner, parent hospital +/- seconded hospital, name of mentor
2. Table of contents
3. Introduction/ Learning Objectives
 - state the reason of choosing this patient for study
 - state the learning objectives / your expectations to learn in this study
4. Diagnosis(es) & applied physiology
 - state the diagnosis(es), the disease process and the management, briefly explain with related anatomy & physiology (detail information can be submitted as appendix)
5. Patient Care Plan:
 - demonstrate holistic care with collaboration with other health care professionals whenever necessary
 - formulate an individualized care plan using Nursing Process Approach
 - a. Patient's profile and Nursing Assessment
 - include patient's social-demographic data, medical history and clinical information
 - Perform comprehensive nursing assessment including specialty specific assessment methods / tools
 - b. Nursing Diagnosis(es) / Identification of Patient's Problems
 - the identified problems or health issues should be evidenced by the data found in patient profile / nursing assessment
 - c. Setting of Goals / Expected Outcomes
 - should be measurable, realistic and with time-frame
 - d. Implementation of Care Plan / Nursing Interventions
 - describe appropriate interventions with rationales
 - monitor the progress if having collaborated with other health care professionals
 - e. Evaluation of Care
 - evaluation the progress and outcomes; review the care plan in accordance with the evaluation data

6. Related Pharmacology
 - state the actions, uses and side-effects of the main types of drugs prescribed to the patient
 - describe the nursing implications and the related health advice for patient
 - if there is no drug prescribed to the patient, learner can demonstrate their knowledge by stating some commonly used drug(s) for the disease(s) that the patient is suffering from.
7. Conclusion / Discussion / Recommendation / Reflection
 - conclude, discuss, reflect or make recommendation on the care process with regard to the particular patient or to the specialty practice
8. References
 - Use a proper and consistent referencing style / format, preferably APA format
 - Include at least 5 different referencing sources
9. Appendix

Suggested Readings / Reference

Books:

Adam, S. & Osborne, S. (2017). *Critical care nursing: science and practice* (3rd ed.). New York, NY: Oxford University Press.

Bersten, A.D. & Handy J.M. (2019). *Oh's Intensive Care Manual* (8th ed.) Philadelphia, PA: Elsevier.

Chan, E.D., et al (2017). *Bedside Critical Care Manual* (3rd ed.). Morrison, CO: Foolscap & Quill

Burns, S.M. & Delgado S.A. (2019). *AACN Essentials of Critical Care Nursing* (4th ed.), New York: McGraw-Hill, Education.

Comer, S. (2005). *Delmar's Critical Care: Nursing Care Plans* (2nd ed.). New York: Delmar Learning.

Deutschman C.S. & Neligan, P.J. (2016). *Evidence-based Practice of Critical Care* (2nd ed.). Philadelphia: Saunders

Good V. S. & Kirkwood, P. L. (2018) *Advanced critical care nursing*. (2th ed.). St. Louis, Missouri: Elsevier.

Hospital Authority. (2019). *Specialty Nursing Services Guidelines, Critical Care Nursing*. Hong Kong: Hospital Authority

Huff, J. (2017). *ECG Workout: Exercises in Arrhythmia Interpretation* (7th ed.). Philadelphia: Wolters Kluwer.

Irwin, R. S., Lily C.M. & Rippe, J. M. (2014). *Manual of Intensive Care Medicine* (6th ed.). Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins

Morton, P.G & Fontaine, D.K. (2018). *Critical Care Nursing: A Holistic Approach* (11th ed.). Philadelphia: Wolters Kluwer.

Urden, L.D., Stacy,K.M., & Lough, M.E. (2016). *Priorities in Critical Care Nursing* (7th ed.). St. Louis, Missouri: Elsevier.

Urden, L.D., Stacy,K.M., & Lough, M.E. (2018). *Critical Care Nursing: Diagnosis and Management* (8th ed.). St. Louis, Missouri: Elsevier.

Wiegand, D. L-M. (2017). *AACN Procedure Manual for High Acuity, Progressive, and Critical Care* (7th ed.). St. Louis: Elsevier/Saunders.

Woodruff, D.W. (2016). *Critical Care Nursing made Incredibly Easy!* (4th ed.). Philadelphia: Wolters Kluwer.

Woods, S.L. (2010). *Cardiac Nursing*. (6th ed.). Philadelphia: Wolters Kluwer /Lippincott Williams

Journal

- Critical Care Nurse
- American Journal of Critical Care Intensive and Critical Care Nursing
- Critical Care Nursing Quarterly
- Critical Care Clinics
- Critical Care Medicine
- Journal of Critical Care
- Journal of Intensive Care Medicine
- Journal of Emergency and Intensive Care Medicine
- Critical Care Nursing Clinics of North America
- American Journal of Respiratory and Critical Care Medicine
- Anesthesia and Intensive Care Journal

Videos

Functional Health Assessment & Techniques of Physical Examination

Neurological Assessment: Cerebellar Function, Motor Function, Reflexes, and Sensory Perception

Neurological Assessment: Cranial nerve

Physical Assessment Series: Respiratory Assessment

Physical Assessment Series: Assessment of the Abdomen

Physical Assessment Series: Head and Neck

Databases (access via eKG)

- CINAHL
- Nursing Reference Center
- PubMed
- Medline
- ScienceDirect