



Intensive Care Unit (ICU)

Intensive Care Unit

Overview

Intensive care medicine is a branch of medicine—and an area of special focus in anesthesiology—that centers around bringing specialized care to critically ill patients. The intensive care unit (ICU) is the main area of work for intensivists (healthcare providers trained in intensive care) and is supplied with special medications and equipment reserved for critical patients.

In this course, the student will be given an overview of intensive care medicine, including the different types of intensivists, the ICU and its types, common conditions encountered and/or exacerbated in the ICU, and special medications and devices used in it.

For optimal understanding, the medical student should be familiar with the physiologies of the cardiovascular and respiratory systems (especially the mechanics of ventilation and lung volume), the basics of acid-base balance, the pathophysiology of pain, the basic concepts of pharmacology, and commonly used intravenous, local, and inhaled anesthetics.

Topics

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The ICU

- Special Employees and Conditions in the ICU: Introduction
- Types – Special Employees and Conditions in the ICU
- Employees – Special Employees and Conditions in the ICU
- Common Conditions – Special Employees and Conditions in the ICU
- Continuous Renal Replacement Therapy – Special Devices (ICU and Brain Death Determination)
- Intra-aortic Balloon Pump – Special Devices (ICU and Brain Death Determination)
- Systemic Inflammatory Response Syndrome – Special Devices (ICU and Brain Death Determination)
- Sedation in the ICU – Special Devices (ICU and Brain Death Determination)
- Brain Death Determination – Special Devices (ICU and Brain Death Determination)

Acute Care

- Acute Problems in Family Medicine
- Case: Left-sided Chest Pain
- Case: Just Another Migraine?
- Upper Respiratory Symptoms
- Upper Respiratory Infections: Diagnosis and Management
- Acute Neck Injury
- Acute Neck Injury: Management
- Acute Back Pain
- Acute Back Pain: Management
- Acute Shoulder Pain
- Acute Shoulder Pain: Diagnosis

- Acute Shoulder Pain: Management
- Acute Knee Pain
- Acute Knee Pain: Differential Diagnosis
- Patellofemoral Syndrome and Osteoarthritis
- Ankle and Foot Pain
- Ankle and Foot Pain: Management
- Hand and Wrist Pain
- Abdominal Pain
- Abdominal Pain: Cases
- Localized Rashes: Dermatitis and Fungal Infections
- Localized Rashes: Impetigo, Cellulitis and Herpes Zoster
- Generalized Rashes: Atopic Dermatitis and Viral Exanthems
- Generalized Rashes: Nummular Eczema, Pityriasis Rosea and Psoriasis
- Urgent Gynecologic Disease
- Urgent Urologic Disease
- Urinary Tract Infection (UTI)
- Chest Pain
- Chest Pain: Pulmonary Embolism and Thoracic Aorta Aneurysm
- Cluster Headache
- Tension-type Headache and Acute Migraine Headache: Management
- Dizziness
- Dyspnea
- Dyspnea: Diagnosis
- Fever in Adults
- Insomnia
- Insomnia: Management
- Anxiety Disorders
- Ocular Emergencies

Neurology Case Study: Nursing Care of Stroke Patient

- Review of Acute Stroke Treatment Goals – Stroke Nursing Care in ER
- Case Introduction and FAST Screening – Stroke Nursing Care in ER
- Immediate Nursing Priorities – Stroke Nursing Care in ER
- Manifestations of Right- and Left-brain Stroke – Stroke Nursing Care in ER
- Collaborating with HCP: SBAR Report – Stroke Nursing Care in ER
- Collaborating with HCP: Initial Orders – Stroke Nursing Care in ER
- NIH Stroke Scale (NIHSS) – Stroke Nursing Care in ER
- Noncontrast CT – Stroke Nursing Care in ER
- Patient and Family Consent – Stroke Nursing Care in ER
- Thrombolytic Therapy (Alteplase) – Stroke Nursing Care in ER
- Alteplase: Nursing Priorities and Dosage Calculation – Stroke Nursing Care in ER
- Stroke Nursing Care in ER: In a Nutshell
- Review of Acute Stroke Treatment Goals – Stroke Nursing Care in ICU
- Immediate Nursing Priorities– Stroke Nursing Care in ICU
- 24 Hours after Alteplase: Nursing Priorities – Stroke Nursing Care in ICU
- Blood Pressure Management – Stroke Nursing Care in ICU
- 48+ Hours after Alteplase: SBAR Report – Stroke Nursing Care in ICU
- Stroke Nursing Care in ICU: In a Nutshell
- Collaborating with HCP: Initial Orders – Stroke Nursing Care in Med-Surg
- Telemetry Unit: Acute Stroke Treatment Goals – Stroke Nursing Care in Med-Surg
- Immediate Nursing Priorities – Stroke Nursing Care in Med-Surg
- Neurological Interventions – Stroke Nursing Care in Med-Surg

- Homonymous Hemianopsia – Stroke Nursing Care in Med-Surg
- Right-Side Stroke – Stroke Nursing Care in Med-Surg
- Left-Side Stroke (Aphasia) – Stroke Nursing Care in Med-Surg
- Left-Side Stroke (Dysphasia and Dysarthria) – Stroke Nursing Care in Med-Surg
- Emotions and Intellectual Function – Stroke Nursing Care in Med-Surg
- Cardiovascular Interventions: VTE – Stroke Nursing Care in Med-Surg
- Respiratory Interventions – Stroke Nursing Care in Med-Surg
- Gastrointestinal Interventions – Stroke Nursing Care in Med-Surg
- Renal/Urinary Interventions – Stroke Nursing Care in Med-Surg
- Skin – Stroke Nursing Care in Med-Surg
- Musculoskeletal/Mobility – Stroke Nursing Care in Med-Surg
- Ongoing Discharge Planning – Stroke Nursing Care in Med-Surg
- Stroke Nursing Care in Med-Surg: In a Nutshell

Critical Care Environment

- Emergency Severity Index (ESI) (Nursing)
- Orientation to Tubes, Lines, and Drains in the Critical Care Patient (Nursing)
- Introduction to Intensive Care (Nursing)
- Intensive Care Unit (Nursing)
- Equipment in the Intensive Care Unit (Nursing)
- Interdisciplinary Teams in Intensive Care (Nursing)
- Common Conditions in the Intensive Care Environment (Nursing)
- Challenges of the Intensive Care Unit Work Environment (Nursing)

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Faculty to learner ratio	✓ 1:10	✓ 1:50 or 1:75
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Associated with Hospitals for Clinical Training	✓ Yes	✓ Yes
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Alumni Support	✓ Yes	⚠ Only a few
e-Certification	✓ Yes	✓ Yes
Physical Certification	✓ Yes	⚠ Only a few
Lifetime certificate validity	✓ Yes	✓ Yes
Digital Marketing and Business Support for your hospital/clinic	✓ Yes	✗ No
Admission process	✓ Smooth, Transparent & all details provided	⚠ Spamming through multiple channels.
Data and privacy protection	✓ Yes	✗ No
CME access	✓ Yes (Lifetime)	✗ No
Medico Legal Session	✓ Yes (Free. By renowned high court advocates)	✗ No
National Level Felicitation Award (for Mediversal Alumni)	✓ Yes	✗ No

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