



أسس العناية المركزة \ الكورس الاول

ICU ADMISSION AND DISCHARGE LEC 2

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Department of Anesthesia

قسم تقنيات التخدير

.....third..... Stage

.....المرحلة... الثالثة

..محاضرة رقم 2....

نظري

Lecture No.

Theoretical

...2.....

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نوري.....

ICU ADMISSION **AND TRIAGE** **CRITERIA**

REQUESTS FOR ICU BEDS

- *excellent care*
- *abundant resources*
 - *high nurse-patient ratios*
 - *pharmacists, nutritionist, RT's, etc*
 - *high tech equipment*
- *signs of deterioration quickly identified*
- *“give them a chance”*
- *discomfort with death*
- *convenience*
- **Demand frequently exceeds supply**

THE “EXPENSIVE” CARE UNIT

Canada

8% of total inpatient cost

0.2 % of GNP

\$1500 per day

USA

20 - 28 % of total inpatient cost

0.8 to 1 % of the GNP

1 ICU day = 3 to 6 times non-ICU day

Higher costs in non-survivors

ICU resources are finite

ICU ADMISSION CRITERIA

- A service for patients with *potentially recoverable* conditions who can *benefit* from more detailed observation and invasive treatment than can be safely provided in general wards or high dependency areas

Prioritization Model

● **Priority 1**

- critically ill, unstable
- require intensive treatment and monitoring that cannot be provided elsewhere
- ventilator support
- continuous vasoactive infusions
- mechanical circulatory support
- no limits placed on therapy
- high likelihood of benefit

Prioritization Model

- **Priority 2**

- Require intensive monitoring
- May potentially need immediate intervention
- No therapeutic limits
- Chronic co-morbid conditions with acute severe illness

Prioritization Model

- **Priority 3**

- Critically ill
- Reduced likelihood of recovery
- Severe underlying disease
- Severe acute illness
- Limits to therapies may be set
 - no intubation, no CPR
- Metastatic malignancy complicated by infection, tamponade, or airway obstruction

Prioritization Model

- **Priority 4**

- **Generally not appropriate for ICU**
- **May admit on individual basis if unusual circumstances**
- **Too well for ICU**
 - **mild CHF, stable DKA, conscious drug overdose, peripheral vascular surgery**
- **Too sick for ICU (terminal, irreversible)**
 - **irreversible brain damage, irreversible multisystem failure, metastatic cancer unresponsive to chemotherapy**

Diagnosis Model

- **Uses specific conditions or diseases**
 - **to determine appropriateness of ICU admission**
- **48 diagnosis/ 8 organ systems**
 - **Acute MI with complications**
 - **cardiogenic shock**
 - **complex arrhythmias**
 - **acute respiratory failure**
 - **status epilepticus, SAH**

Objectives Parameters

Model

- **Vital signs**
 - **HR < 40 or > 150**
 - **SBP < 80**
 - **MAP < 60**
 - **DBP > 120**
 - **RR > 35**

Objectives Parameters

Model

- **Laboratory values**

- Sodium < 110 or > 170
- Potassium < 2.0 or > 7.0
- PaO₂ < 50
- pH < 7.1 or > 7.7
- Glucose > 800 mg/dL
- Calcium > 15 mg/dL
- toxic drug level with compromise

Objectives Parameters

Model

- **Radiologic**

- ICH, SAH, contusion with AMS or focal neuro signs
- Ruptured viscera, bladder, liver, uterus with hemodynamic instability
- Dissecting aorta

Objectives Parameters **Model**

- **EKG**

- **acute MI with complex arrhythmias, hemodynamic instability, or CHF**
- **sustained VT or VF**
- **complete heart block with instability**

Objectives Parameters **Model**

Physical findings (acute onset)

- unequal pupils with LOC
- burns > 10%BSA
- anuria
- airway obstruction
- coma
- continuous seizures
- cyanosis
- cardiac tamponade

Discharge Criteria

- **physiologic status has stabilized**
 - **need for ICU monitoring and care no longer necessary**
- **physiologic status has deteriorated**
 - **active interventions no longer planned**

Intermediate Care **Units**

- **monitoring and care of patients with moderate or potentially severe physiologic instability**
- **require technical support**
- **frequent monitoring of vital signs**
- **frequent nursing interventions**
- **not necessarily artificial life support**
- **do not require invasive monitoring**
- **require less care than ICU**
- **require more care than general ward**

Intermediate Care Units

- **reduces costs**
- **reduces ICU LOS**
- **no negative impact on outcome**
- **improves patient/family satisfaction**

ICU Triage

- **good prognosis over poor**
- **likelihood of benefit**
- **life expectancy due to disease**
- **anticipated quality of life**
- **wishes of patient or surrogate**
- **obligations to current patients outweigh new patients**

ICU Triage

- **“Too well to benefit”**
- **“Too sick to benefit”**

Any questions?

*Thank
You*

QUIZ



YOU WILL BE EXAMED AFTER THE LECTURE