#### Mustafa YILDIZ MD\*, Banu SAHIN YILDIZ MD\*\*

#### From:

\*Sakarya University Internal Medicine and Cardiology, Sakarya, Turkey

\*\*Sakarya Educational and Research Hospital,

Department of Internal Medicine, Sakarya, Turkey

#### Address for

reprints Mustafa YILDIZ, MD Bayar Cad, Gulbahar Sok, Emniyet Sitesi, A Blok, A Kapisi, D6, Kozyatagı Istanbul/TURKEY Telefon: +905323711701 E-mail: mustafayilldiz@yahoo.com

## UNDERSTANDING OF INTENSIVE CARE UNIT

The intensive care is treatment regimen for the patients with life-threatening disease. Aim of intensive care is to ensure vital functions. Understanding of intensive care unit, all member of the intensive care (doctor, nurse, health technician) should be aware of responsibility to patient, the patient's family, their friends, their institute and society. In the modern intensive care units; device, equipment and compatibility must be perfect. Key words: Intensive care unit, personnel, device, patient

Intensive care is a multidisciplinary care and treatment approach, for the patients with acute life-threatening disease or damage, or else whom expected to have potential similar damage or disease (1-10).

Patients needing intensive care, are monitored and treated in intensive care units with specially organised and trained staff (1-10).

#### **Objective**

The objective of intensive care, in patients with organ dysfunction, is to provide vital functions, till the diagnosis and treatment of underlying pathophysiological mechanisms.

#### Intensive care indications

- Intoxications,
- Life-threatening conditions after trauma,
- Post-operative life-threatening complications,
- Life-threatening complications due to severe methabolic diseases,
- Patients under monitoring with possible life-threatening complications

#### Staff equipments

- Specialised staff
- Drugs
- Monitor
- Pulsoxymetrie
- Defibrillator
- Pacemaker
- Intubation tubes
- Mechanical ventilato

- Infusion pumps
- Hemodialysis equipments

#### Specialists

- Anesthesiologist
- Cardiologist
- Internal medicine specialist
- General surgeon
- Pediatrist
- Intensive care specialist (Sub-speciality for Internal Medicine and Pulmonary Diseases specialists)

#### Why are intensive care units are special?

- Experienced full-time specialists
- High nurse-patient ratio
- Invasive monitorization capabilities (Pulmonary-circulatory)
- Pulmonary and cardiovascular support with devices
- Easy access to drugs and intravenous fluids
- Easily accessible labarotuary (e.g: Blood count, urea, creatinin, ECG, chest X-ray)

#### Intensive care unit types

- Conventional special intensive care units (general intensive care units, surgical intensive care units)
- Intensive care units for specific clinical syndromes (trauma, shock, burn, stroke units)
- Intensive care units for specific organ systems (coronary, neurological, pulmonary, gastrointestinal units)
- Intensive care units for specific age groups (neonatal, obstetric units)

### Costs in intensive care units

Costs of intensive care units are very high because of high technological equipments and specific treatments. Despite high technology equipments mortality rates are still high.

### General objectives of intensive care unit staff

- Saving lifes of patients with possibilities
- Assuming death as both friend and

enemy

- "Do resuscitate" or "Do not resuscitate" marks should be written down on patient charts.

"Do" or " Do not" Cardiopulmonary resuscitation (CPR) decision can be made by patient's physician, with its possibel benefits (Do not attempt resuscitation-DNAR) Turkish laws do not allow DNR orders.

# *Features, responsibilities and tasks of intensive care units*

Intensive care nurses are, specially trained licensed professional nurses, responsible for optimal caring of patients with life-threatening conditions.

#### American Critical Care Nurses Association

Intensive care nurses are, working in ciritical care nursing field, who are qualified and registered in their own country.

## European Critical Care Nurses Association Federation

Critical care nursing is specified nursing care of patients with critical conditions (severe or potential disease in vital organs)

The objective of critical care nursing is to improve patients's physical, psychological, sociological and mental conditions with preventive, treating and rehabilating attempts.

#### Continous education of intensive care nurses

- Professional organisations
- Courses, congresses, symposiums
- In-service trainings
- Bedside visits
- Publications

In conclusion, every member of intensive care unit (doctor, nurse, etc.) should be in aware of responsibilities for patient, patients's family, teammates, colleagues, hospital and society. Device, equipment and team compatibility should be excellent in modern intensive care units (1-10).

### REFERENCES

- Doğanay Z. Yoğun bakım ünitesi skorlama sistemleri: Yoğun Bakım Sorunları ve Tedavileri. Şahinoğlu H (editör). Türkiye Klinikleri 2000:134-46.
- Margeret SH. Pulmonary and Critical Care Medicine, University Health Network, Assistant Professor of Medicine; Clinics in Chest Medicine 2003;24:751-62.
- 3. Angus DC, Kelley MA, Schmitz RJ, White A, Popovich J Jr. Caring for the critically ill patient. Current and projected workforce requirements for care of the critically ill and patients with pulmonary disease: Can we meet the requirements of an aging population? JAMA 2000;284:2762-70.
- Safar P, Grenvik A. Organization and physician education in critical care medicine. Anesthesiology 1977;47:82-95.
- 5. American College of Critical Care Medicine of the Society of Critical Care Medicine. Guidelines for advanced training for physicians in critical care. Crit Care Med 1997;25:1601-7.
- Li TCM, Phillips MC, Shaw L, Cook EF, Natanson C, Goldman L. On-site physician staffing in a community hospital intensive care unit. JAMA 1984; 252:2023-7.
- 7. Kelley MA. Critical care medicine-a new specialty? N Engl J Med 1988;318:1613-7.
- Colice GL. A historical perspective on intensive care monitoring. In: Tobin MJ (ed). Principles and Practice of Intensive Care Monitoring. New York: McGraw Hill 1998;1-31.
- 9. Guidelines committee; society of critical care medicine. Guidelines for the definition of an intensivist and the practice of critical care medicine. Crit Care Med 1992;20:540-2.
- 10. Brown JJ, Sullivan G. Effect on ICU mortality of a full-time critical care specialist. Chest 1989;96:127-9.