

# Medications and Misadventures in Critical Care and Emergency Medicine



## Course Description

This course is designed to further build on the strong foundation possessed by an RN in order to further equip him or her with important pharmacologic knowledge for patient care. It covers basic clinical pharmacokinetics to establish a bedrock of solid principles that inform all drug assessments and then covers commonly seen high-risk, knowledge-based situations to equip RNs to assess and manage issues, including septic shock, rapid sequence intubation and resuscitation pharmacotherapy. The course then covers commonly seen medication misadventures from abused and misused substances, including placebo and nocebo treatments, essential oils and marijuana.

## Program Learning Outcomes

*This program prepares the learner to:*

- Describe the fundamentals of pharmacokinetics that are foundational to all pharmacotherapy.
- Use knowledge of specific pharmacologic management of disease states to manage critically ill patients.
- Discuss commonly misused medications and their effects and be able to treat adverse effects from medication misadventures.

## Agenda

*Sign-in begins at 7:30 am.* The day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

### 8:00 am to 4:30 pm

#### **Pharmacokinetics**

Absorption | Distribution | Metabolism | Excretion | Half-Life/Steady State | Volume of Distribution | Patient Cases

#### **Septic Shock and Vasopressor Use**

Blood Pressure Components, Formulas | Pathophysiology of Blood Pressure and Septic Shock | Ultimate Blood Pressure Resuscitation Goal | Clinical Signs of Perfusion | Vasopressor Comparison

#### **Rapid Sequence Intubation**

Induction Agents | Paralytics | Sedation | "Rocketamine vs. Keturonium" Debate | Modifiable Rocuronium Kinetics | Sedated vs. Paralyzed Intubations | Patient Cases

#### **Advanced Cardiovascular Life Support Pharmacology**

Epinephrine | Antiarrhythmics | Electrolytes | Beta Blockers | Literature, Current Trials

### Lunch 12:00 pm to 1:00 pm

#### **Placebo/Nocebo Effects**

Definitions | Everyday Placebo Examples | Evidence | Managing Patient Expectations

#### **Essential Oils**

Definition | Methods of Use | Evidence in Treatment | Aromatherapy

#### **Marijuana**

Overview and Historical Use | Therapeutic Indications, Level of Evidence | Safety Concerns, Adverse Reactions | Pregnancy, Lactation | Cannabinoid Hyperemesis Syndrome

# Accreditation

**RN/LPN/LVN/Other: 7 Contact Hours**

***Includes 7 Pharmacology Contact Hours***

MED-ED, Inc is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

MED-ED, Inc. is an approved provider by the following State Boards of Nursing: **Florida/FBN 50-1286, Iowa/296, California #CEP10453.**

If your profession is not listed, we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.

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