

Medical Education Symposium

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Medical Toxicology for the Emergency Medicine Clerkship

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Introduction

Medical toxicology is a weak area for medical students. This is multi-factorial and may be due to:

- Few fellowship-trained medical toxicologists
- Subject overshadowed
- Not presented in engaging manner
- Misperception that the subject is not as critical

Objectives

- Recognize and apply basic principles of medical toxicology to poisoned patient
- Enhance recognition/management of:
 - Acetaminophen toxicity
 - Salicylate toxicity
 - Toxidrome
- Improve performance on pre-test and post-test
- Identify gaps in medical knowledge
- Keep audience engaged
- Minimal use of power point



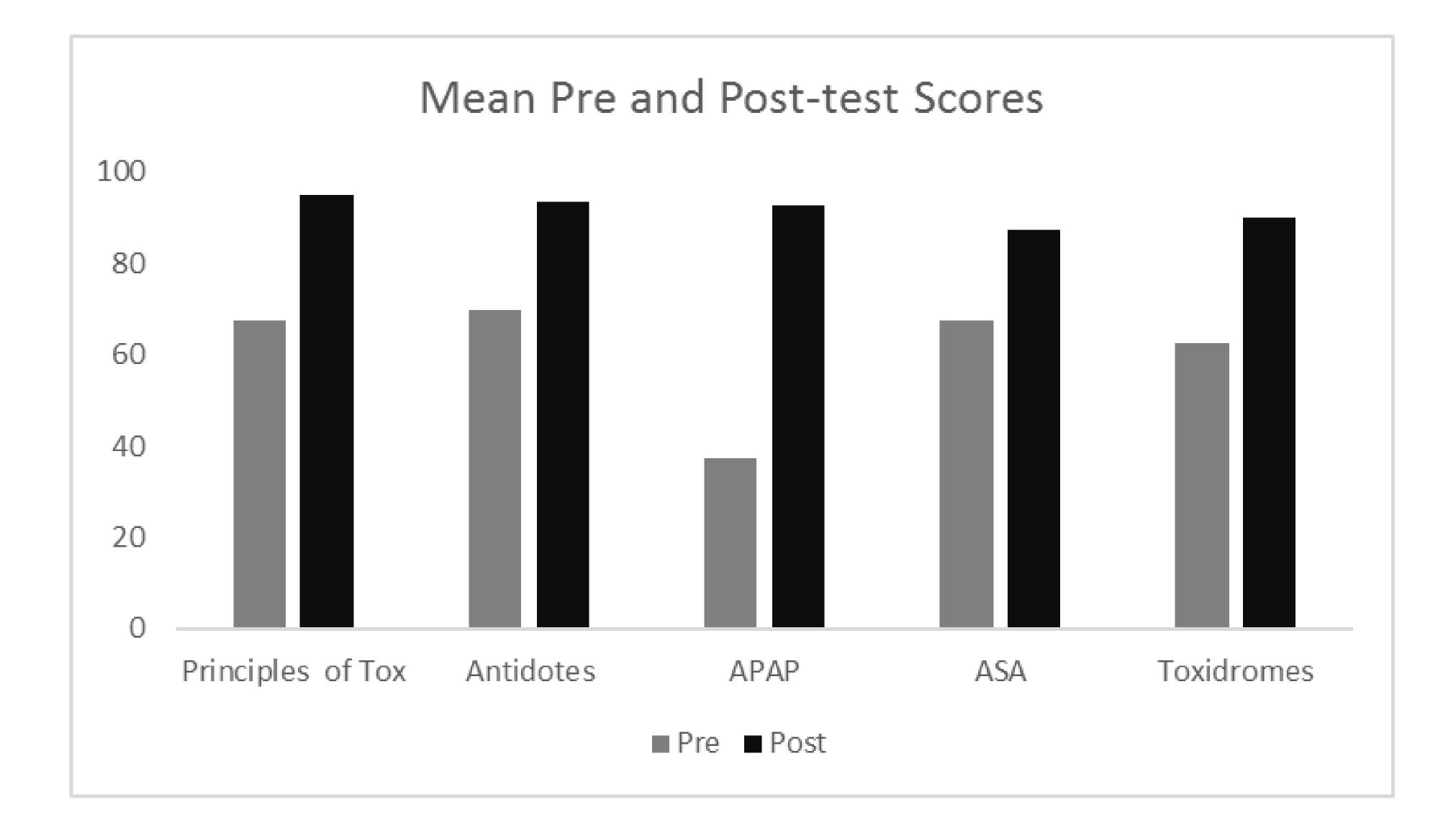
Medical Toxicology for the Emergency Medicine Clerkship

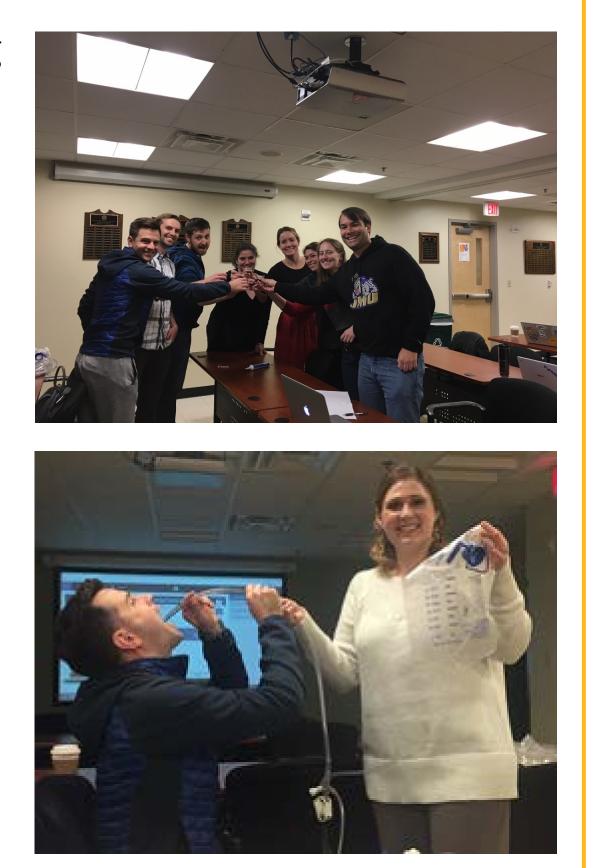
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Methods

- Pre-test taken before course and before assigned reading
- 10 pages assigned reading
- Teaching methods included:
 - Flipped classroom
 - Case-based learning
 - Props
 - Video Clips
 - Simulation Lab
- Post-test after course
- Anonymous survey at end of course





- continued

- encouraged
- Limitations:

Tintinalli, Judith E Contributor, Cline, David Contributor, & American College of Emergency Physicians Content Provider. (2012). *Tintinalli's emergency medicine* manual (7th ed. / [edited by] David M. Cline ... [et al] ; American College of Emergency Physicians.. ed.). New York: McGraw-Hill. Chapter 106: Analgesics

Tintinalli, Judith E Contributor, Cline, David Contributor, & American College of Emergency Physicians Content Provider. (2012). *Tintinalli's emergency medicine* manual (7th ed. / [edited by] David M. Cline ... [et al] ; American College of Emergency Physicians.. ed.). New York: McGraw-Hill. Chapter 100: General Management of the Poisoned Patient

Howland, Mary Ann Contributor, Lewin, Neal A. Contributor, Flomenbaum, Neal Editor, Goldfrank, Lewis R Editor, & Hoffman, Robert S Contributor. (2014). *Goldfrank's toxicologic emergencies* (10th ed.). Chapter 35: Acetaminophen



Results

• Knowledge gaps identified in all areas

• Improvement on all post tests

• Audience engaged

• Overwhelmingly positive feedback

• Nearly all students felt curriculum should be

• Students felt better able to care for a patient with a toxidrome, acetaminophen overdose, or salicylate overdose

Conclusions

• Medical toxicology should be part of emergency medicine clerkship

• Minimal use of power-point lectures is

- Requires small classroom
- Large amount of preparation
- Lack of student preparation

References