

WORKSHOP DESCRIPTION AND LEARNING OBJECTIVES

The **Advanced Radiology Life Support™ (ARLS)** Workshop is designed to focus on unique, life-threatening emergencies that occur within a radiology department. It will teach prompt recognition and treatment of contrast reactions and discuss management of the sedated patient and the proper management of an airway in an emergency situation. The administration of contrast in patients with renal insufficiency including contrast induced nephropathy and nephrogenic systemic fibrosis will be discussed. Basic concepts of advanced life support will also be reviewed. This course is fashioned after the Advanced Cardiac Life Support (ACLS) course that has been successfully teaching physicians, nurses and allied health personnel patient management during cardiac arrest.

The ARLS workshop and corresponding sedation materials are used to train physicians, nurses, and allied health personnel at Mayo Clinic to meet Joint Commission Standards or to prepare for Joint Commission site visits. The training program may help to prepare your program for similar evaluations.

Attendees will have an opportunity to participate in two self-assessment modules (SAMs) during the workshop. The self-assessment modules have been designed to meet the standards of the American Board of Radiology (ABR) for self-assessment modules (SAMs).

A complimentary syllabus on flash drive is provided. A paper syllabus is not available.

Upon conclusion of this workshop, participants should be able to:

- Review types of contrast agents.
- Identify all serious contrast reactions.
- Describe appropriate treatment regimens for specific types of contrast reactions.
- Review risk factors for and potential impact of contrast induced nephropathy.
- Review risk factors for and potential impact of nephrogenic systemic fibrosis (NSF).
- Discuss most effective strategies for contrast administration in renal disease.
- Describe proper use and administration of moderate sedation and analgesic medications.
- Demonstrate the proper management of an airway in an emergency situation.

Attendance at this workshop does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this workshop.

CREDIT

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 4.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This workshop content includes three (3.0) hours of Sedation and Airway Management Training.

Other Health Care Professionals: A record of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

Advanced Radiology Life Support™ Workshop (Optional)

Sunday, July 31, 2016 • 6:30 a.m. – 12:15 p.m.
Fee \$400 • Pre-registration required

INTENDED AUDIENCE

Advanced Radiology Life Support™ (ARLS) is designed for all medical personnel involved in the administration of contrast material. This course has been attended by radiology physicians, residents and fellows, nurse practitioners, physician assistants, nursing personnel, technologists and others.

WORKSHOP SCHEDULE

- 6:30 a.m. **Registration and Continental Breakfast**
- 7:15 **Introduction and Workshop Overview**
Patrick W. Eiken, M.D.
- 7:20 **Contrast Media**
Eric E. Williamson, M.D.
- 7:50 **Recognition and Treatment of Contrast Reactions**
Patrick W. Eiken, M.D.
- 8:20 **Sedation and Analgesia**
Patrick W. Eiken, M.D.
- 8:50 **Refreshment Break**
- 9:00 **Contrast Induced Nephropathy: Risk Factor Screening**
Darin White, M.D.
- 9:45 **Gadolinium-Based Contrast Agents: Classification, Safety and NSF**
Eric E. Williamson, M.D.
- 10:30 **SAM Exam, Workshop Review and Reflection**
Faculty
- 10:45 **Station Practicals**
Patrick W. Eiken, M.D., Darin White, M.D., Eric E. Williamson, M.D., and
Sherrie L. Yerhot, R.N.
- A. Airway Management**
 B. Treatment Scenarios
- 12:15 p.m. **ARLS Workshop Adjourns**

