The Emergency Ultrasound Section continues to grow and build foundations for innovative care at the bedside. It has been a busy year for the Ultrasound Section with many changes. The Ultrasound Fellowship is nearing the end of its inaugural year, with two of the fellows staying on as faculty. Under Section Chief Dr. Srikar Adhikari, the section has implemented new directions for this emerging field. Point-of-care protocols, robust billing packages and digital wireless transmission has created a section that rivals any ultrasound program in the country. These innovations culminate to provide superior, progressive care that didn’t exist even two years ago. Plus, the endless search for endocavitory probe use will continue its uncharted journey.

Please let Dr. Richard Amini know of any new or exciting ideas you may have!

Critical Care

Critical Care Medicine at UAMC has recently taken a more prominent role in the DEM. The residency has taken on more of a critical care personality and we now have critical care fellows training in an accredited fellowship through Pulmonary/Critical Care Medicine. This fall our graduating fellow, Jarrod Mosier, will sit for the first-ever board examination and will join the faculty as the director of Emergency Medicine Critical Care in addition to attending the medical ICU. Residents will gain a much broader education in the management of critically ill patients and the department is at the leading edge of this new and developing subspecialty of emergency medicine. (See fellowship information.)
Airway management is the cornerstone of resuscitation in the ED. Roughly 500 intubations are performed per year in the UAMC ED. The ED maintains special clinical, educational and research activities in the area of emergency airway management and is on the forefront of these activities in the nation. Multiple airway devices are available in the ED for intubation. In addition to conventional direct laryngoscopy, the ED has multiple video and fiberoptic devices available, including 4 GlideScope videolaryngoscopes, 2 CMAC videolaryngoscopes, 4 flexible fiberoptic scopes and one rigid fiberoptic scope. Optically assisted devices such as videoscopes and fiberscopes now account for half of all intubations performed in the ED. Other rescue devices such as intubating LMA and surgical airway kits are also available, but are being used with less and less frequency. Also, starting with the next academic year, residents and faculty will begin gaining hands-on experience with fiberoptic bronchoscopy.

Lastly, we are at the leading edge of airway management via telemedicine and were the first in the world to perform a “telebation.” With the advancements in technology, we are able to assist with difficult intubations over a telemedicine or wireless network. Most recently, we have been using the iPhone and the GlideScope video laryngoscope to supervise emergency intubations using FaceTime and Skype.

The Section of Medical Toxicology is committed to excellence in medical education, patient care, and scholarship. Our faculty physicians provide medical direction for the Arizona Poison and Drug Information Center and are available for bedside consultation at both UAMC Campuses. We lead the required medical toxicology rotation for EM residents and are frequently asked to lecture locally, nationally, and internationally.

Since July 1, 2011, the Section administers the Medical Toxicology Fellowship. This ACGME-accredited, two-year fellowship is based out of UAMC-South and is designed to produce leaders in clinical and academic medicine.

The Section is particularly involved with the teaching of the Advanced Hazmat Life Support (AHLS) course, which was created at the UA
Diamond Children’s Hospital Emergency Department and Combined Emergency Medicine/Pediatric Residency Training Program

Dale Woolridge, MD, PhD  
Director  
Chad Viscusi, MD  
Medical Director  
Hans Bradshaw, MD  
Peter Chase, MD, PhD  
Angelique Ferayorni, DO  
Nat Johnson, MD

Diamond Children’s Hospital is the only children’s health facility in Southern Arizona connected to an academic medical center and housed within a Level I Trauma Center. The Pediatric Emergency Hospital is an 18 bed, 24-hour Pediatric Emergency Department.

The five-year residency program accepts three residents each year, and trains them to be fully competent emergency physicians and pediatricians. The program is in its seventh year and has graduated two classes. It is one of only three such combined programs in the United States.

- Pediatric entrance, waiting room, and triage rooms
- 4th floor -> 36 bed Level III NICU
- 5th floor -> 36 private Pediatric Med/Surg
- 6th floor -> 24 bed PICU, 14 bed Hemocology/Oncology Unit, 6-bed Bone Marrow Transport Unit
- PEDS-ED volume is approximately 20,000 patients (27% of overall ED volume)

Active PEDS-ED Research Projects:
- Therapeutic hypothermia after pediatric cardiac arrest
- Excellence in prehospital injury care 4 kids
- Screening and counseling for underage drinking
- Pediatric skull fractures diagnosed using ultrasound

Toxicology (continued)

and is co-administered by the Arizona Emergency Medicine Research Center (AEMRC) and the American Academy of Clinical Toxicology.

Our faculty members, Dr. Frank Walter, Dr. Farshad “Mazda” Shirazi, and Dr. Spencer Greene, actively participate in a variety of research projects and have particular expertise in hazardous material and occupational exposures, envenomations, geriatrics, and withdrawal.

We invite anyone with questions about the Section of Medical Toxicology to contact us.
Our Mission

♦ Excellence in the care of all patients needing emergent or urgent care services.
♦ Enhancement of Emergency Medicine educational programs at the undergraduate and graduate levels, especially the residency programs.
♦ Enhancement of research in the areas of prehospital care, acute injury and illness, emergent and urgent care services, injury prevention, and resuscitation.
♦ Continue to define the unique biology of Emergency Medicine through service, research and educational opportunities.
♦ Align the Department of Emergency Medicine and the Arizona Emergency Medicine Research Center to provide a vehicle for faculty development, extramural funding and discovery of new knowledge.

Disasters are increasing worldwide, requiring improved clinical expertise to optimize medical care for disaster victims. The Advanced Disaster Preparedness & Response (ADPR)™ program is a 4-hour course covering:

* Incident Command System
* Natural Disasters
* Situational Awareness
* Explosives
* Triage
* Decontamination

Target Audience
Physicians, Nurses, Paramedics, AEMTs, EMTs and Public Health Professionals

Course Objectives
Upon completion, the participant will be able to:
- Define and apply the ABCDE paradigm of ADPR™ to your practice.
- Refine your situational awareness.
- Use current triage systems (MASS, SALT, & START with RPM).
- Describe decontamination for each of the three general types of hazards.

Continuing Medical Education:
The University of Arizona College of Medicine at the Arizona Health Sciences Center designates this live activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This course is offered at various dates and locations in Arizona. The most current information can be found at: www.crestaznm.org. Please call (520) 626-2305 if you have questions.