Procedures Covered

Intubation
- Emergency orotracheal intubation, adult and child
- Use of esophageal intubation detector
- Use of the ET tube introducer
- Use of the esophageal tracheal Combitube™ airway
- Use of the King™ Airway
- Intubating laryngeal masks

Surgical Airway Techniques
- Cricothyrotomy, adult and child
- Tracheotomy, adult and child
- Extraction of tracheal foreign body, adult and child

Cardiac and Thoracic
- Subcostal ultrasound for hemopericardium
- Percutaneous pericardiocentesis
- Emergency thoracotomy
- Internal pericardiocentesis
- Internal cardiac massage
- Internal defibrillation
- Transvenous cardiac pacing
- Needle thoracostomy for tension pneumothorax
- Chest tube insertion for chest trauma
- Autotransfusion of chest tube returns

Cannulation
- Central venous access
- Saphenous vein cannulation
- Fluid volume loading
- Percutaneous arterial cannulation

Miscellaneous
- Raney clip use for scalp bleeding
- Percutaneous suprapubic cystostomy
- Skull trephination
- Simultaneous team actions in resuscitation
- Cantholysis/canthotomy

Neonatal and Infant
- Neonatal evaluation and resuscitation
- Bag/valve/mask use — neonate
- Orotracheal intubation — neonate
- Transtracheal needle ventilation — infant
- Chest tube insertion — infant
- Intraosseous needle placement
- IV cannulation — neonate
- Tracheotomy — infant

CALS

Scheduling a Lab

Labs are offered in Minneapolis, Minnesota at the Hennepin County Medical Center.

For lab schedules and rates, visit www.calsprogram.org.

To register as an individual or team, contact:

Karie Pearce, RN - Trauma Services
Hennepin County Medical Center
karie.pearce@hcmed.org

612.873.3449 800.346.4262

A confirmation letter and other materials will be sent to participants one month prior to the scheduled lab.

Accreditation

Hennepin County Medical Center is accredited by the Minnesota Medical Association (MMA) to provide continuing medical education for physicians.

Hennepin County Medical Center designates this live activity for a maximum of 7.5 *AMA PRA Category 1 Credit*™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Other healthcare providers who participate in this CME activity may submit their statement of attendance to their appropriate accrediting organizations or state boards for consideration of credit. Participants are responsible for determining whether this activity meets the requirement for acceptable continuing education.

The Benchmark Skills Lab was developed by
Dr. Ernest Ruiz, MD and Carol Peterson, RN.

CALS | RURAL EMERGENCY MEDICAL EDUCATION
Comprehensive Advanced Life Support

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December 2014

CALS Benchmark Skills Lab

for Rural Emergency Provider Teams

Covering many skills necessary for the stabilization of critically ill or injured patients.

Hennepin County Medical Center

CALS | RURAL EMERGENCY MEDICAL EDUCATION
Comprehensive Advanced Life Support

The CALS Benchmark Skills Lab:

"Hands-on" Comprehensive Advanced Life Support education that prepares your team for rural emergencies.

The CALS Benchmark Skills Lab is a "cockpit white-knuckle training" experience for rural teams who encounter critical medical situations in their emergency departments. The lab stresses teamwork, preparation, and hands-on skills learning and practice.

The experience is realistic, but friendly and forgiving.

Two team leaders and two nurses or other appropriate team members attend each lab session which lasts for up to 8 hours. The Benchmark Skills Lab satisifies the lab requirement of the Comprehensive Advanced Life Support (CALS) course, and along with the CALS course, meeting the MN State Trauma System MD requirements.

Who should attend?

Lab teams are comprised of two team leaders (MD, DO, NP, PA) and two RNs or other appropriate team members. The attendees can expect hands-on practical application of skills. Each lab is taught by an emergency physician and RN team.

www.calsprogram.org

CALS Learning Outcomes

Upon completion of the Benchmark Skills Lab, students will be able to:

- Describe volume resuscitation methods using peripheral and central venous access.
- Interpret oximeters, ECG monitors, and vital signs to follow the effects of resuscitation.
- Describe invasive and non-invasive airway management techniques. Understand how teamwork can make these processes succeed or fail.
- State treatment modalities in herniation syndrome and acute epidural scenarios.
- Prepare and describe chest tube placement and chest suction devices including autotransfusion.
- Perform and describe invasive emergency airway management in infants.

CALS | RURAL EMERGENCY MEDICAL EDUCATION
Comprehensive Advanced Life Support

About CALS Rural Emergency Medical Education

CALS improves patient care in rural and resource-limited hospitals through intensive advanced life support training. The curriculum is specifically designed for medical teams who work in settings exposed to undifferentiated medical emergencies without the luxury of on-site subspecialty assistance.

The CALS Resuscitation Diamond

The CALS curriculum is continually updated to ensure that the latest developments in clinical practice are combined with appropriate equipment and the patient-centered training CALS is known for.

Rural, Remote, and Global Impact

CALS education has improved patient care in rural and remote communities across the United States and Canada, globally in US embassies abroad, and within developing countries in Africa and Haiti