A program of UND School of Medicine and Health Sciences & ND STAR

MANUAL
About SIM-ND

- Initial funding was provided by a generous grant from the Leona M. and Harry B. Helmsley Charitable Trust
- SIM-ND uses four custom-built mobile learning labs strategically headquartered in cities across North Dakota
- Owned and operated by the UND School of Medicine and Health Sciences (UND SHMS) with ND Department of Health oversight
- SIM-ND teams are made up of paramedics and nurses from six ND health systems: Altru (Grand Forks), Essentia and Sanford (Fargo), Sanford and St. Alexius (Bismarck), and Trinity (Minot)
- To schedule a SIM-ND simulation session at your location, call: 701-777-5619

Equipment Available

- Adult METIman simulator
- CAE Birthing simulator
- CAE Child (One-Year-Old) simulator
- CAE Child (Five-Year-Old) simulator
- IV trainer arm
- Intubation task trainer
- Intubation equipment
- On-board & on-site video recording
Who Can Use SIM-ND

- On-site training is provided at no cost to the learners from all Critical Access Hospitals, EMS Units, and medical providers in North Dakota.
- Continuing education credits are available free of charge to physicians, nurses, and emergency medical personnel.
- SIM-ND is able to tailor the training scenarios to your specific educational needs.

Scenarios

We are able to offer a large variety of training scenarios through the use of our infant, child, birthing and adult high-fidelity manikins. We can also custom design scenarios to fit most training needs.

Categories of High-Fidelity Simulation Scenarios currently available for SIM-ND learners:

<table>
<thead>
<tr>
<th>Adult</th>
<th>Trauma</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Anhydrous Burn</td>
<td>• Burn</td>
</tr>
<tr>
<td>• Asthma</td>
<td>• Farmer head trauma</td>
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<tr>
<td>• Burn Electrical</td>
<td>• Flail chest</td>
</tr>
<tr>
<td>• Burn Inhalation</td>
<td>• Gunshot Wound (Hunter or Soldier)</td>
</tr>
<tr>
<td>• CHF</td>
<td>• IED</td>
</tr>
<tr>
<td>• CVA</td>
<td>• with Amputation</td>
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<tr>
<td>• DKA</td>
<td>• with Chest Trauma</td>
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<tr>
<td>• DVT/PE</td>
<td>• Multiple Injury</td>
</tr>
<tr>
<td>• Heat Stroke</td>
<td>• Multiple trauma MVC</td>
</tr>
<tr>
<td>• Hypertensive Crisis</td>
<td>• Pelvic Fracture</td>
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<tr>
<td>• Hypoglycemia</td>
<td></td>
</tr>
<tr>
<td>• Malignant Hyperthermia</td>
<td></td>
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<tr>
<td></td>
<td>• MI</td>
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<tr>
<td></td>
<td>• Overdose/Adult Gunshot Wound</td>
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<td></td>
<td>• Rape</td>
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<tr>
<td></td>
<td>• Respiratory (AIDS)</td>
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<tr>
<td></td>
<td>• ST Elevation</td>
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<tr>
<td></td>
<td>• Stroke related to Atrial Fib (CVA with tPA)</td>
</tr>
</tbody>
</table>

Trauma

- Burn
- Farmer head trauma
- Flail chest
- Gunshot Wound (Hunter or Soldier)
- IED
  - with Amputation
  - with Chest Trauma
- Multiple Injury
- Multiple trauma MVC
- Pelvic Fracture
## Infant

- Febrile Seizures
- Meningitis
- Preterm Emergency Delivery
- Rotavirus
- Shaken Baby
- Term Emergency Delivery

## Pediatric

- Asthma
- Drowning
- Eating Disorder
- Enterovirus-68
- Febrile Seizures
- Malignant Hyperthermia
- Meningoencephalitis
- Motor Vehicle Collision
- Poisoning
  - Acetaminophen
  - Teen suicide attempt
- Substance Abuse
- Trauma
  - Bike Accident
  - Broken Leg
- Rollerblading

## Labor & Delivery

- Amniotic Fluid Embolism
- Emergency Childbirth
- Postpartum Hemorrhage
- After Shoulder Dystocia
- Trauma with Abruption
- Umbilical Cord Prolapse

## Fundamentals

- Airway Management
- IV Management

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### Testimonials

The following are testimonials about SIM-ND simulations:

“I think it’s a GREAT program for learning for people who do not get this experience very often. Thank you for the experience! We are planning to bring it to our hospital.”

SIM ND- Stroke & STEMI Conference.

“Opportunity to practice is great!”

Emergency Childbirth Training, Hillsboro, ND

“Instructors were excellent and helpful.”

Pediatric Burn Scenario, SW Regional EMS Conference

“Great info, thanks!”

Emergency Childbirth Training, Garrison, ND

“Instilled better confidence in my skills.”

Pediatric Burn Scenario, SW Regional EMS Conference
Photos

The vehicle crews and administrative team of SIM-ND.

SIM-ND guiding North Dakota Air National Guard Training, 2014.

The fleet of SIM-ND custom-built vehicles.
Truck Physical Requirements and Specifications

- VEHICLE LENGTH – 45’
  Requires 6-8 parking spaces in typical lot
- VEHICLE HEIGHT – 14.5’
- VEHICLE WIDTH – 15’
- VEHICLE WEIGHT – 33,000 LB

Electrical Requirements

It is highly recommended for the Mobile SIM unit to be “docked” to a 100 AMP receptacle via our landline to optimize the climate control system and other power needs of the vehicle during training. Please note the type of plug and required 100-amp receptacle as they appear in the pictures right and below. The length of our landline is approximately 50’.

While all of the SIM-ND vehicles are equipped with an on-board generator, use of the landline eliminates exhaust odor and constant generator noise during simulation.

**Electrical Specs**
- 100 amp
- 125/250 volt
- Single phase
- 3 pole - 4 wire
For More Information

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