The BATCAVE Healthcare Simulation Program provides medical simulations classes using a variety of state-of-the-art simulators, which include Adult Human Patient Simulators, Child Simulators, Infant Simulators, Ultrasound Simulators, and Trauma Simulators.
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BATCAVE FACULTY

BATCAVE NURSE EDUCATORS
High-Fidelity Simulators
**HPS® Human Patient Simulator—Stan D. Ardman “Stan”**

**Key Features**

- O.R. Setting with Anesthesia
- PT Assessment and Treatment Skills
- Advanced Airway Skills
- Advanced Cardiac Skills

For more information, go to the manufacturer’s website:

SimMan® 3G Advanced Patient Simulator
“Sim G”

Key Features

• Hospital Room Setting
• PT Assessment and Treatment Skills
• Advanced Airway Skills
• Advanced Cardiac Skills
• Quality CPR Feedback
• Convulsions

For more information, go to the manufacturer’s website:
SimBaby™
“SimBaby”

Key Features

- Hospital Room Setting
- Airway Skills
- Pulmonary Skills
- Cardiovascular Skills
- Simulated Patient Monitor

For more information, go to the manufacturer’s website:
SimNewB®
“SimNewB”

Key Features

- Hospital Room Setting
- Airway Skills
- Pulmonary Skills
- Cardiovascular Skills

For more information, go to the manufacturer’s website:
NOELLE® and Newborn HAL®
Maternal and Neonatal Birthing Simulator
“Noelle and Baby Hal”

Key Features for Noelle

• Airway, Breathing and Circulation
• Maternal and Neonatal Monitoring
• Obstetric scenarios including vertex, breech, shoulder dystocia and PPH

Key Features for Baby Hal

• Advanced airway and ventilation
• Advanced cardiac rhythms, rates, and intensities
• Pulse sites including fontanelle and umbilicus

For other birthing models, go to page 34.

For more information, go to the manufacturer’s website:
http://www.gaumard.com/s550
Premie HAL®
“Little”

Key Features

- Advanced airway and ventilation
- Advanced cardiac rhythms, rates, and intensities
- Pulse sites including fontanelle and umbilicus

For more information, go to the manufacturer’s website:
http://www.gaumard.com/s3009
The da Vinci® Surgical System
“da Vinci”

Key Features

- Magnified vision system that gives surgeons a 3D HD view inside the patient’s body
- Ergonomically designed console where the surgeon sits while operating
- Wristed instruments that bend and rotate far greater than the human hand

For more information, go to the manufacturer’s website:
Mid-Fidelity Simulators
MegaCode Kelly™ Advanced
“Kelly”

Key Features

• ACLS Mock Code Scenarios
• Airway/Breathing Adjuncts
• Defibrillator Safe

For more information, go to the manufacturer’s website:
http://www.laerdal.com/us/MegaCodeKelly
Nursing Anne Simulator
“Nursing Anne”

Key Features

- Core Nursing Competencies
- Palpation Anatomical Landmarks
- Realistic Articulation

For more information, go to the manufacturer’s website:
Resusci Anne®
“Annie” AKA “Laura”

Key Features

- ACLS Mock Code Scenarios
- Airway/Breathing Adjuncts
- Defibrillator Safe
- Lendable to units in hospital

For more information, go to the manufacturer’s website:
MegaCode Kid
“Junior”

Key Features

- PALS Mock Code Scenarios
- Airway/Breathing adjuncts
- Defibrillator safe

For more information, go to the manufacturer’s website:
Ultrasound Simulator and Equipment
Vimedix Cardiac Echo Simulator
“Bob”

Key Features

- Transesophageal Echo (TEE)
- Transthoracic Echo (TTE)
- Real-time Ultrasound Imaging
- Normal and Pathology Cases

For more information, go to the manufacturer’s website:
https://caehealthcare.com/ultrasound-simulation/vimedix
SonoSim Ultrasound

Key Features

- Performance Tracking
- Full Screen Image Display
- Procedure Training

For more information, go to the manufacturer’s website:
https://sonosim.com/ultrasound-training/
M-Turbo Ultrasound

Key Features

- Performance Tracking
- Full Screen Image Display
- Procedure Training

For more information, go to the manufacturer’s website:
https://www.sonosite.com/products/sonosite-m-turbo
Task Trainers
Task Trainers – Airway Models

**Adult CPR Manikin**

For cardio pulmonary resuscitation (CPR), abdominal thrusts, and ventilations.

**AMBU® Airway Management Trainer**

For teaching intubation techniques with all known tubes and supraglottic airway devices.

**Baby Anne™ Infant CPR Manikin**

For cardio pulmonary resuscitation (CPR), back blows, and ventilations.

**Child Airway Management Trainer**

For practicing the specialized skills required for child airway management.
Task Trainers – Airway Models

**Cricotracheotomy Trainer**

For practicing surgical cricothyroidotomy with scalpel, practicing insertion of mini trach devices. May use Percutaneous Tracheostomy Kit or Seldinger approach.

**Infant Airway Trainer Head**

For practicing the specialized skills required for infant airway management.

**LUCAS® 3, 3.0 Trainer**

For chest compressions to improve blood flow in victims of cardiac arrest.
Task Trainers – Airway Models

Nasco Adult Airway Management Trainer with Board

For practicing intubation, ventilation, and suction techniques.

Resusi® Baby

For patented hygienic system, airway open only in sniff position, airway obstruction possibility.
Task Trainers - Assessment Models

**Gaumard Breast Examination Simulator**
For breast self examination training and pathologies for clinical breast examination training.

**Gaumard Female Pelvic Simulator**
For hands-on experience in practicing gynecologic skills.

**Gaumard Prostate Simulator**
For depicting moderately enlarged benign prostate, a prostate with two discreet nodules, a prostate with an easily palpable large mass, and a prostate with malignant invasive cancer.
Task Trainers – Heart-Sound Models

**3B Scientific SAM, The Student Auscultation Manikin**

Anatomically correct auscultation sites, heart, lung, bowel, and bruit sounds library. May be used for classroom and self-study.

**The CardioSim™ VII Teaching Simulator**

Real heart sound library, wave format animation.
Task Trainers – Injection Models

**Advanced Injection Airm**
For complete venous access for IV therapy and phlebotomy, intramuscular injections, and intradermal injections.

**Arm Injection Model**
For practicing intravenous (IV) injections and phlebotomy skills.

**Chester Chest™**
For teaching and practicing infusion, withdrawal, care, securement and dressings of multiple vascular access lines.

**Elbow Joint Injection Model**
For practicing soft tissue joint injection
Task Trainers – Injection Models

**Geriatric IV Arm**
For practicing geriatric IV therapy and intramuscular injections including veins that roll away or disappear while catheterizing the vessel of a specially developed skin.

**Hand and Wrist Joint Injection**
For practicing soft tissue joint injection.

**Hand Injection Model**
For practicing intravenous (IV) injections and phlebotomy skills.

**Infant Intraosseous Infusion (IO) Legs Model**
For the practice of IO insertion in pediatric tibias.
**Task Trainers – Injection Models**

**Intramuscular Hip Injection Model**

*For administering intramuscular injections.*

**Knee Joint Injection Model**

*For practicing soft tissue joint injection.*

**Nasco CorMan® Adult Nasogastric/Nasojejunal Feeding Trainer**

*For training in nasogastric and nasojejunal feed tube and gastrostomy device placement in adults.*

**Naso Gastric Intubation Teaching Model “Thin Man”**

*For demonstrating the common hospital procedure of inserting a feeding tube.*
Task Trainers – Injection Models

Peter PICC Line™ Model
For practicing placing peripherally inserted central catheter lines (PICC Lines).

Shoulder Injection Model
For practicing soft tissue joint injection.

Simulabs Lumbar Puncture
For the practice of placing adult L.P. needles.

Simulab LumbarPuncture-Baby
For ultrasound or blind technique lumbar puncture training.
Task Trainers – Trauma Models

Laerdal Trauma Head Model

For realistic cranial trauma management.

Simulabs TraumaMan Model

For ATLS, cricothyroidotomy, percutaneous tracheostomy, needle decompression, pericardiocentesis, chest tube insertion, diagnostic peritoneal lavage, and surgical procedures.

Simulaids ATLS Trauma Head and Neck Model

For multi-systems trauma assessment.
Task Trainers – Ultrasound-Guided Models

**CAE Blue Phantom™ Female Pelvic Training Model**

For Obstetrics and Gynecology ultrasound imaging and procedures.

**CAE Blue Phantom™ Paracentesis Ultrasound Training Model**

For ultrasound guided paracentesis procedures.

**CAE Blue Phantom™ Thoracentesis Ultrasound Training Model**

For ultrasound guided thoracentesis procedures.

**CAE Blue Phantom™ Ultrasound CentralLineMan® Model**

For central line placement.
Task Trainers – Ultrasound-Guided Models

**CAE FemoraLineMan System**
For femoral line placement.

**CAE PICC Ultrasound Trainer Arm Model with Hand Pump**
For PICC line placement, arterial line placement, and peripheral IV access.

**Simulab CentralLineMan**
For full catheterization using ultrasound guided or blind/landmark insertion.

**Simulab PICCLineMan**
For vein isolation and selection.
Task Trainers – Miscellaneous Trainers

**FLS Trainer**

*For laparoscopic surgery skills.*

**Gaumard Birthing Simulator**

*For teaching labor and delivery management skills to learners of all levels.*

**Simbionix GI-BRONCH Mentor™ System**

*For training of gastrointestinal upper and lower endoscopic procedures.*
BATCAVE Faculty
<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Information</th>
<th>Biography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michel Boivin</td>
<td>Clinician Ed Associate Professor IM Division of Pulmonary CC and Sleep 505 272-1666 <a href="mailto:Mboivin@salud.unm.edu">Mboivin@salud.unm.edu</a></td>
<td>Dr. Boivin is the medical director of the MICU and program director of the critical care fellowship. Dr. Boivin is a leading expert in teaching ultrasound. Dr. Boivin is interested in simulation education, particularly in ultrasound and ultrasound guided procedures. Dr. Boivin has passed the echocardiography boards and is active in simulation training in TTE and TEE.</td>
</tr>
<tr>
<td>Dana Davis</td>
<td>Clinician Ed Professor IM Division of Hospital Medicine 505-925-0660 <a href="mailto:DKDavis@salud.unm.edu">DKDavis@salud.unm.edu</a></td>
<td>10+ years experience teaching (IM simulation of critical care scenarios).</td>
</tr>
<tr>
<td>Todd S. Dettmer</td>
<td>Clinician Ed Associate Professor Department of Emergency Medicine Division of Critical Care 505-272-5062 <a href="mailto:TDettmer@salud.unm.edu">TDettmer@salud.unm.edu</a></td>
<td>I am originally from Alamogordo, New Mexico. I spent the majority of my education here in New Mexico at UNM, but was excited to pursue a fellowship in Critical Care Medicine at the University of Washington. Fortunately, I was offered a position to return home to UNM and continue a split career in Emergency Medicine and Critical Care Medicine. I spend the majority of my clinical time now in the ICUs primarily surgical and neurosurgical but have an interest in acute resuscitation and hope to balance my time a little better between the ICU and ED in the near future. I help to run the simulation curriculum for residents and students in the department. I enjoy teaching and clinical medicine. I love my job and I love my state, but the thing I am most proud of is my family. My parents and my siblings are my role models; my wife and son are my motivation. I’ve been married for two years to my beautiful wife Casey who I met more than 10 years ago and our biggest accomplishment together has been raising our son, Jet. I enjoy snowboarding, camping, and mountain biking.</td>
</tr>
<tr>
<td>Jennifer Dillow</td>
<td>Clinician Ed Associate Professor Director, Pediatric Anesthesia Fellowship Chief, Division of Pediatric Anesthesiology 505-272-2610 <a href="mailto:JDillow@salud.unm.edu">JDillow@salud.unm.edu</a></td>
<td>Hi - I am a pediatric anesthesiologist who is triple boarded in anesthesiology, pediatric anesthesiology, and pediatrics. I have taught simulation scenarios for both anesthesia residents and pediatric anesthesia fellows for pediatric emergency scenarios. I have also taught the simulation sessions for PALS.</td>
</tr>
<tr>
<td>Name</td>
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| **Ricardo J. Falcon** | Clinician Ed  
Associate Professor  
Department of Anesthesiology and Critical Care Medicine  
505-272-2610  
RFalcon@salud.unm.edu | My name is Ricardo Falcon. I am an anesthesiologist at UNMH. My simulation experience involves training residents in anesthesia in critical high-risk patient related scenarios. In addition, I assist with the Department of Anesthesiology’s MOCA simulation course to educate anesthesiologists who are planning for recertification of their license to continue practicing anesthesia. |
| **Senan Hadid**  | Clinician Ed  
Assistant Professor  
Department of Pediatrics Division of Critical Care  
505 925-0684  
SHadid@salud.unm.edu | Medical education  
Med school: Damascus University School of Medicine, class of 2005.  
Clinical research: John Strogers Hospital, Chicago, 2005-2007.  
Pediatric residency: Children’s Hospital of New Jersey at Newark Beth Israel MC, class of 2010.  
Pediatric Critical Care Medicine Fellowship: University of Michigan, Ann Arbor, class of 2013.  
Assistant Professor of Pediatric critical Care Medicine, University of New Mexico, 2013-present.  
Interest: medical education including simulation, I designed a simulation curriculum for pediatrics residents that provides a learning opportunity for controlled clinical practice without putting patients or others at risk with the goal in mind being improving the patients safety and the education quality in our department and institution. I also hold pediatric critical care procedure simulation training sessions for pediatric residents including central lines placement (Internal jugular CVL, Femoral venous CVL and PICC), airways and chest tube (both percutaneous and surgical). |
| **Jacob Imber**  | Clinician Ed  
Assistant Professor  
IM Division of Hospital Medicine  
505-925-0660  
jimber@salud.unm.edu | Dr. Jacob Imber is a clinical hospitalist and assistant professor of medicine at the University of New Mexico in the Division of Hospital Medicine and is the Director of the Internal Medicine Simulation Program. The simulation program aims to help IM residents learn to manage common critical care scenarios encountered in hospital medicine and aid in developing procedural skills. Dr. Imber has completed a simulation facilitator training course offered through UNMH, completed a national course on ultrasound and procedural practice, taken local and national courses on providing feedback and helped to design the curriculum which is currently used. He has been directing the IM simulation since 2014. |
### Faculty Directory

*Click on Name for Vivo Page – (vivo page not available outside of UNM)*

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<th>Name</th>
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<tr>
<td><strong>Sepehr Khashaei</strong></td>
<td>Clinician Ed Associate Professor IM Division of Hospital Medicine 505-925-0660 <a href="mailto:SKhashaei@salud.unm.edu">SKhashaei@salud.unm.edu</a></td>
<td>I teach the internal medicine interns and residents one of the three procedures at Batcave. These procedures are Thoracentesis, paracentesis, and lumbar puncture. I am a hospitalist at the VA hospital and a faculty of UNM.</td>
</tr>
<tr>
<td><strong>Mary Lacy</strong></td>
<td>Clinician Ed Assistant Professor IM Division of Hospital Medicine 505-925-0660 <a href="mailto:MELacy@salud.unm.edu">MELacy@salud.unm.edu</a></td>
<td>3 years experience teaching (IM simulation of critical care scenarios).</td>
</tr>
<tr>
<td><strong>Veena Raizada</strong></td>
<td>Professor IM Division of Cardiology 505-272-6020 <a href="mailto:VRaizada@salud.unm.edu">VRaizada@salud.unm.edu</a></td>
<td>6/1988-present Professor of Medicine, IM/Cardiology. Education 1/94-12/94----One year sabbatical -training in Cardiovascular Molecular Biology and Biochemistry with Leslie Leinwand, Ph D, James Schauer MD, PhD at Einstein College of Medicine, New York 6/1983-6/1984----Research Fellowship in physiology/cardiac muscle (with Jim Covell, MD) University of California, La Jolla, California Visiting Associate Professor of Medicine University of California, La Jolla, California 12/1974-2/1977----Cardiology Fellowship Institute for Cardiovascular Diseases Good Samaritan Hospital, Phoenix, Arizona 6/1971-11/1973----Registrar in Cardiology ( Program Directors: N. Coulshed, MBBS, and E. J. Epstein, MBBS) Regional Cardiac Centre, Sefton General Hospital University of Liverpool, Britain 6/1970—5/1971----Lecturer (Faculty in Internal Medicine), Lady Hardinge Medical College and Hospital, New Delhi, India 6/1968-6/1970----Research Fellowship ( Program Director: S. Padmavati, MBBS) G. B. Pant Hospital, New Delhi, India 1.Etiology of chronic cor pulmonale in India (sponsored by the National Institutes of Health, USA) 2.Clinical trial with peruvoside: A cardiac glycoside isolated from an Indian plant 8/1968----Post Graduate Examination in Internal Medicine (MD) University of Delhi, India Thesis: EKG in right ventricular hypertrophy of varied etiology 6/1966-6/1969----Registrar, Lady Hardinge Medical College and Hospital New Delhi, India 6/1963-6/1966----Residency in Internal Medicine Postgraduate Institute of Medical Education Chandigarh, India 6/1963, MBBS, Lady Hardinge Medical College, University of Delhi Delhi, India</td>
</tr>
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# Faculty Directory

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<tr>
<th>Name</th>
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<th>Biography</th>
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</table>
| John Rask        | Director, UNM BATCAVE Simulation Education Center  
Associate Professor  
Department of Anesthesiology and Critical Care Medicine  
505-272-2610  
JRask@salud.unm.edu | Dr. Rask is currently an Associate Professor in the Department of Anesthesiology and Critical Care Medicine at the University of New Mexico (UNM). He has been administering anesthesia since 1986 with academic appointments at the University of Utah (1989-1991) and UNM (2005-present) separated by 16 years in an MD-only private practice. His practice has covered nearly all subspecialty areas but includes extensive experience in Acute and Chronic Pain, Trauma, Cardiovascular, Neurosurgical, Obstetrics, and Regional Anesthesia. He has held numerous administrative positions in private practice, the US Veterans system, and in academics. He has been the UNM Departmental Simulation-Education Director since 2006 and Director of the UNM MOCA® Simulation course since 2011. As the Director of the UNM BATCAVE Simulation and Training Center, he trains simulation faculty and coordinates support for all GME, advanced UME, and hospital staff training programs. He was a member of the ASA Committee on Simulation Education /Editorial Board for Simulation–based Training until Fall 2016. He has been involved with the ASA SimStat project since shortly after its inception and is a member of the ASA Editorial Board for Interactive Computer-based Education.  
He is engaged in research in communication, simulation education, and performance assessment and has presented and published locally and nationally in a broad range of areas. He is a member of the Simulation in Anesthesia Research Group (SARG) research consortium. His research and educational activities include programs addressing crisis resource management, communications, teamwork, simulation curriculum development, and in-situ simulation for diagnosis of systems failures. He has served for many years as an ABA Associate Examiner, an ASA Delegate, and as a board member of the New Mexico Society of Anesthesiologists. |
| Kendall Rogers   | Clinician Ed  
Professor  
IM Division of Hospital Medicine  
505-925-0660  
KRogers@salud.unm.edu | 10+years experience teaching (IM simulation of critical care scenarios).                                                                                                                                  |
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<th>Name</th>
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<tbody>
<tr>
<td>Anthony Worsham</td>
<td>Clinician Ed Associate Professor IM Division of Hospital Medicine 505-925-0660 <a href="mailto:AWorsham@salud.unm.edu">AWorsham@salud.unm.edu</a></td>
<td>5+ years experience teaching (IM simulation of critical care scenarios).</td>
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BATCAVE Nurse Educators
## Nurse Educators Directory

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Joan L. Deis</td>
<td>Director, Clinical Education, UNMH 505-272-0974 <a href="mailto:JLDeis@salud.unm.edu">JLDeis@salud.unm.edu</a></td>
<td>I’ve been a nurse for 40 years and have worked at UNMH for 36 years. I’ve been in Clinical Education for 15 years and Director for 6. My clinical background is primarily critical care in trauma, surgery, and neuroscience. In Clinical Education, I have taught a variety of critical care, trauma, and neuroscience-related classes as well as Precepting, Stress Management, New Hire, Basic Arrhythmia and Arrhythmia Refresher, and ACLS. I conduct the Annual Arrhythmia Competence testing in the BATCAVE space (no simulation) once a month.</td>
</tr>
</tbody>
</table>
| Laurie Mason       | Educator Rn: Clinical Education 505-272-0272 LMason@salud.unm.edu | Laurie Mason, MSN, RN, CNOR  
Has been a nurse since 1987 and has worked in med/surg, geriatrics, and ambulatory/Endoscopy before finding her love of Surgical patients, working in the OR from that point for 21 years. Laurie discovered a passion for teaching and began working as a clinical educator in the OR and later, in the hospital, while concurrently employed at CNM, working with Level 3 nursing students in their nursing program. |
| Lisa M. Trujillo   | Educator Rn: BATCAVE 505-272-3362 LMTrujillo@salud.unm.edu | I have been a registered nurse since 2004 and have spent my entire nursing career at UNMH. While at the bedside I worked in coronary care and as an RN Supervisor on the neurology unit. For the past six years I have been in an administrator/educator role in the BATCAVE. I serve on several hospital committees including the Nurse Residency Advisory Council, am a member of SSIH, and am nationally certified in Nursing Professional Development. |
| Verena Weissenborn | Educator Rn: Clinical Education DNP NEOL: College of Nursing 505-925-2491 vweissenborn@salud.unm.edu | Verena Weissenborn has completed a Master of Science in Nursing Education degree and holds an International Diploma in Mountain Medicine. She is a Certified Emergency Nurse, Trauma Certified Registered Nurse, and Board Certified in Nursing Professional Development. Verena is Faculty, Course Director, and Instructor for the Trauma Nurse Core Curriculum (TNCC) and Emergency Nursing Pediatric Course (ENPC). She has spent several years working bedside, as Charge Nurse, and Assistant Nurse Manager in pediatric and adult emergency departments and has been employed in the UNMH Department of Clinical Education as the Nurse Educator for Trauma & Emergency since 2014. |