

Les Jebson
Exec Director, Orthopaedics
& Sports Medicine Institute
University of Florida

THE BIOMEDICAL SKILLS LABORATORY | MANAGEMENT SYMPOSIUM

TRENDS IN UNIVERSITY AFFILIATED SKILLS TRAINING FACILITIES



Les Jebson

Executive Director, The Orthopaedics & Sports Medicine Institute
The University of Florida Health System jebso1r@ortho.ufl.edu



SOME UNIVERSITY AFFILIATED LABS

TEXAS AND MOUNTAIN REGION

CENTRAL AND PLAINS REGION

University of Missouri, Dept. of Surgery, Shelden Clinical Simulation Center, Columbia, MO
Washington University School of Medicine, St. Louis, MO
University of Nebraska Medical Center Clinical Simulation Lab, Omaha, NE
Mayo Clinic Simulation Center, Rochester, MN

WESTERN REGION

David Geffen School of Medicine at UCLA, Los Angeles, CA
The Oregon Clinic, Portland, OR
The Goodman Simulation Center at Stanford University, Stanford, CA
Surgical Skills Training Center at the University of Southern California, Los Angeles, CA
University of Hawaii, SimTiki Simulation Center, Honolulu, HI
University of California at San Francisco, Community Regional Medical Center, Fresno, CA
University of Washington Medical Center, ISIS, Seattle, WA
University of Nevada School of Medicine Surgical Skills and Simulation Lab, Las Vegas, NV
Center for Virtual Care, University of California Davis Medical Center, Sacramento, CA
Legacy Clinical Research and Technology Center, Portland, OR

NEW ENGLAND REGION

Baystate Medical Center, Springfield, MA
Beth Israel Deaconess Medical Center, Simulation and Skills Center, Boston, MA
Lahey Clinic, Burlington, MA
Maine Medical Center, Portland, ME
University of Massachusetts Medical School, Worcester, MA
Eastern Maine Medical Center, Bangor, ME

EASTERN AND MID-ATLANTIC REGION

Christiana Hospital Simulation Program, Newark, DE
Staten Island University Hospital, Staten Island, NY
Hospital of the University of Pennsylvania, Penn Medical Clinical Simulation Center, Philadelphia, PA
Temple University, Measey Institute for Clinical Simulation and Patient Safety, Philadelphia, PA
Johns Hopkins Minimally Invasive Surgical Training Center, Baltimore, MD
Uniformed Services University, National Capitol Area Medical Simulation Center, Silver Spring, MD
University of Maryland Medical Center, Baltimore, MD
Clinical Simulation Center, Washington Hospital Center, Washington, DC
Maimonides Medical Center, Brooklyn, NY
Mt. Sinai School of Medicine, New York City, NY
Weill Cornell Medical College, SAIL, New York City, NY
Virginia Commonwealth University, Minimally Invasive Surgery Center, Richmond, VA
Penn State Milton S. Hershey Medical Center, Hershey, PA
Easton Hospital, Easton, PA

University of Colorado-Denver Center for Surgical Innovation, Aurora, CO
Banner Health Good Samaritan Medical Center, Phoenix, AZ
University of Utah Center for Surgical Education, Salt Lake City, UT
MITIE – The Methodist Hospital, Houston, TX
University of Texas Health Science Center, San Antonio, TX
UT Southwestern Medical Ctr, Southwestern Center for Minimally Invasive Surgery, Dallas, TX
Seeger Surgical Simulation Center at Baylor University Medical Center, Dallas, TX
William Beaumont Army Medical Center, El Paso, TX
Texas Tech University Health Sciences Center, Lubbock, TX
University of Texas Medical Branch- Galveston, Galveston, TX

MIDWEST REGION

Institute for Minimally Invasive Therapeutics, Summa Health System – Akron City Hospital, Akron, OH
Northwestern Feinberg School of Medicine, Center for Advanced Surgical Education, Chicago, IL
University of Cincinnati Department of Surgery, Division of Education, Cincinnati, OH
The Ohio State University Medical Center, Center for Minimally Invasive Surgery, Columbus, OH
Loyola University Golan Surgical Resident Resource Center, Maywood, IL
Detroit Medical Center, Wayne State University, Detroit, MI
Cleveland Clinic, Cleveland, OH
Case Western Reserve University/University Hospital, Cleveland, OH
Henry Ford Health System, Detroit, MI
University of Kentucky Center for Advanced Training & Simulation, Lexington, KY
West Virginia University, Morgantown, WV
Indiana University, Indianapolis, IN

SOUTHEASTERN REGION

Center of Excellence for Laparoscopic and Minimally Invasive Surgery, University of Miami, Miami, FL
Duke University Medical Center, Durham, NC
Greenville Hospital System Healthcare Simulation Center, Greenville, SC
Medical University of South Carolina, Charleston, SC
Vanderbilt University School of Medicine, Center for Experiential Learning, Nashville, TN
University of North Carolina, Chapel Hill, NC
University of South Florida Health Simulation Center at Tampa General Hospital, Tampa, FL
University of Alabama Surgical Skills Lab, Birmingham, AL
Tulane Center for Advanced Medical Simulation and Team Training, New Orleans, LA
Carolinas Medical Center, Charlotte, NC
University of Florida College of Medicine Jacksonville, Jacksonville, FL
West Virginia University – Morgantown, Morgantown, WV

CANADA

McGill University Health Center, Montreal, Quebec, Canada
University of British Columbia, Centre of Excellence for Surgical Education and Innovation, Vancouver, British Columbia, Canada
University of Toronto Surgical Skills Centre, Toronto, Ontario, Canada

Trends in University Affiliated Labs



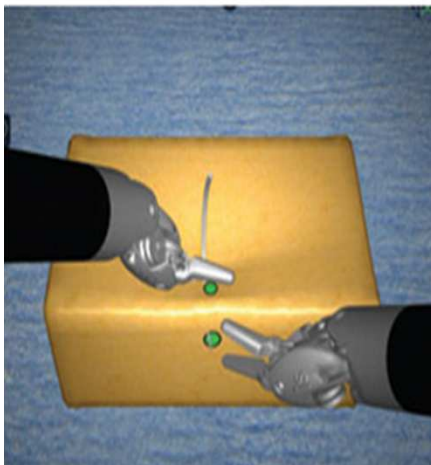
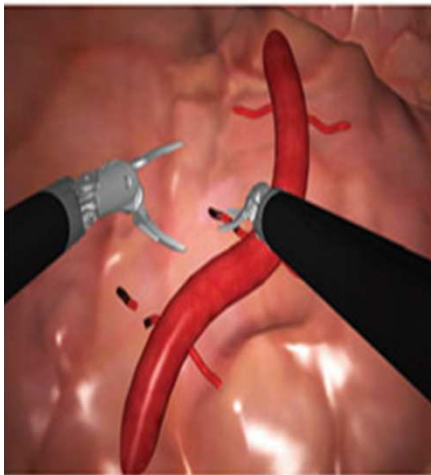
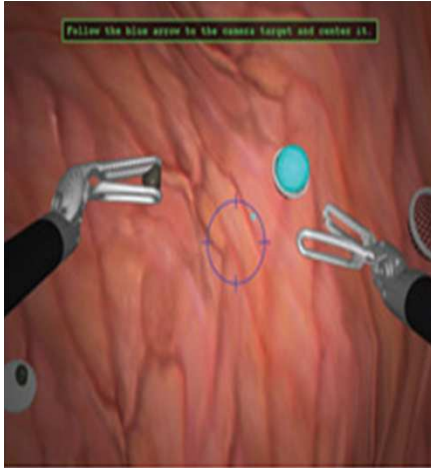
HIGHLIGHTS ON THESE POINTS

- **EDUCATION**
 - *SIMULATION and SURGICAL ROBOTICS*
 - *MINIMALLY INVASIVE Curriculums*
- **TISSUE ACCESS AND MANAGEMENT**
 - *ARTIFICIAL TISSUE*
- **FUNDING MECHANISMS**

SURGICAL ROBOTICS



SURGICAL SIMULATION

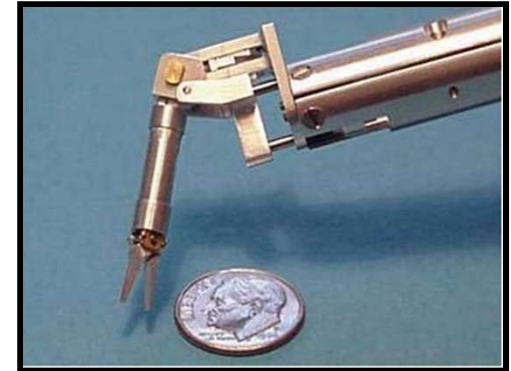


- Skills assessment, receive real-time feedback and physician specific progress tracking
- Custom curriculums fit with other learning activities at University
- Large Capital Outlay – ROI vs Cadaveric Labs?



Minimally Invasive Procedures

- Microvascular



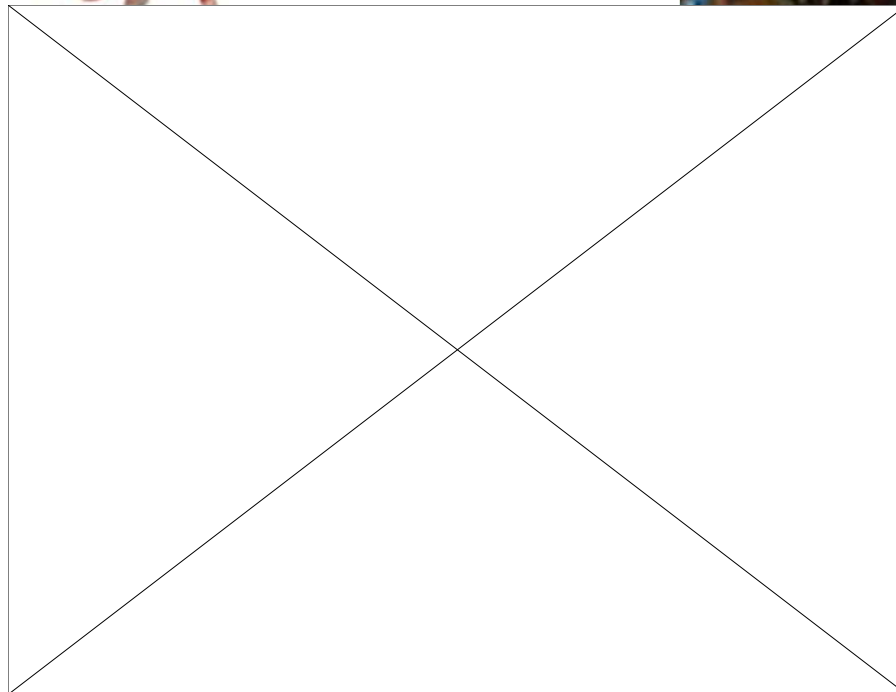
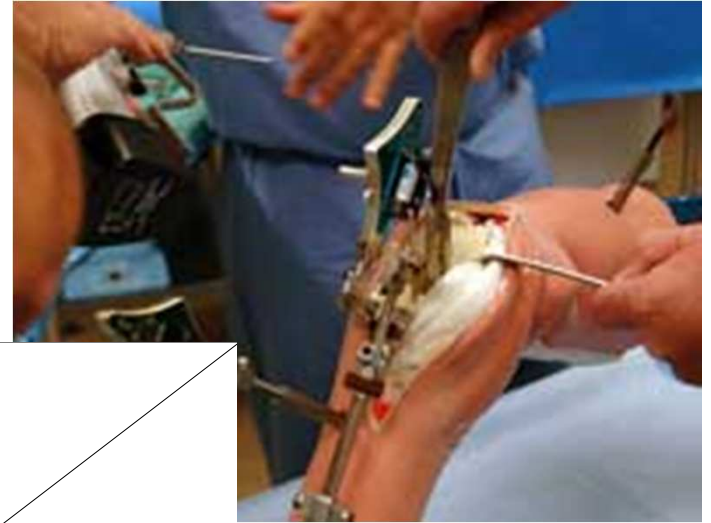
- Stereotaxis



- Endovascular



TISSUE MANAGEMENT TRENDS



FUNDING MECHANISMS

- Philanthropy - More Essential Than Ever for University Labs
- Oligopoly in Medical Device Arena – How Will Lab Activity Be Affected in Frequency and Revenues?
- Community Support? – VisitLasVegas.com
- Institutional-Campus Support?
- **ALL OF THE ABOVE??**





Reference Sites

- <http://robotics.tmcnet.com/channels/healthcare-robotics/>
- <http://www.allaboutroboticsurgery.com/>

