



図 23 手術室のシミュレーションルーム



図 24 妊婦・新生児のシミュレーションルーム

医学教育コース

コースは全 91 コース、開講されている。コース名を表 4 に示す (表 2)。このコースはそれぞれ診療科目別、学生別、看護別、生涯教育という 4 つの分類に分かれている。また学生の中でも 2・3・4 学年に分かれているなど、細かい分類がある。またこの地域はヘリコプターによる救急搬送が盛んに行われており Air Medical Crew Training も開講されていることも特徴の一つである。

表 2 WISER でのシミュレーションコース詳細

no.	Course
1	Air Medical Crew Training
2	2nd Year Medical Student Anesthesiology Basic Monitoring
3	2nd Year Medical Student Clinical Procedures Course: Adult Basic Airway Management
4	3rd Year Medical Student Anesthesia EKG Recognition
5	3rd Year Medical Student Critical Care Medicine
6	3rd Year Medical Student Day 1: Airway Management During Intravenous Induction of General Endotracheal Anesthesia
7	3rd Year Medical Student Day 2: Intravenous Induction of General Endotracheal Anesthesia
8	3rd Year Medical Student Day 3: Anesthesia for Emergency Exploratory Laparotomy
9	3rd Year Medical Student Day 4: Perioperative Crises
10	4th Year Medical Student Anesthesiology Advanced Airway Management

11 4th Year Medical Student Anesthesiology TURP
12 4th Year Medical Student Anesthesiology for Neurosurgery
13 4th Year Medical Student Anesthesiology for Obstetrics
14 4th Year Medical Student Critical Care Medicine
15 4th Year Medical Student Emergency Medicine Clerkship
16 Advanced Cardiac Life Support (CME)
17 Advanced Crisis Leadership for Critical Care Medicine Fellows
18 Airway Management for Pediatric Clinicians
19 Anesthesia Crisis Leadership Training Resident & Student Registered Nurse
Anesthetists
20 Anesthesia Faculty Difficult Airway Management Fiberoptic Bronchoscopy
21 Anesthesia Residents Fiberoptic Bronchoscopy
22 CA-1 Introduction to Anesthesiology Simulation
23 Central Venous Cannulation Training
24 Creating and Implementing a Simulation Learning System and Custom SimMan
Programming and Advanced Techniques
25 Crisis Team Training - McKeesport
26 Crisis Team Training - Oakland
27 Critical Care Medicine Fellows Difficult Airway Management Fiberoptic
Bronchoscopy
28 Critical Care Medicine Fellows Orientation
29 Design, development and operation of medical simulation centers
30 Difficult Airway Management Anesthesiology Certified Registered Nurse
Anesthetists
31 Difficult Airway Management Anesthesiology Faculty
32 Difficult Airway Management Anesthesiology Residents
33 Difficult Airway Management Anesthesiology Residents Northwest
34 Difficult Airway Management Critical Care Medicine Fellows
35 Difficult Airway Management Emergency Medicine Faculty
36 Difficult Airway Management Emergency Medicine Residents
37 Difficult Airway Management Training Program CME
38 Difficult Airway Management for Pre-Hospital Care Providers
39 Emergency Medicine 1114: Medication Administration
40 Fiberoptic Bronchoscopy Critical Care Medicine Fellows
41 Fiberoptic Bronchoscopy Training Program CME
42 Inhalation Anthrax
43 Introduction to Pediatric Critical Care Medicine
44 MISC Training - Anesthesiology
45 MISC Training - Critical Care Medicine

46 MISC Training - Emergency Medicine
 47 MISC Training - Medical Students
 48 MISC Training - Pediatric
 49 MISC Training - Respiratory Therapy
 50 MISC Training - SDY - Hillman
 51 MISC Training - School of Nursing
 52 MISC Training - WISER
 53 Medical Simulation Course Director Training
 54 Medical Simulation Course Facilitator Training
 55 Mock Code
 56 Moderate Sedation for Non-Anesthesia Care Givers - Adult
 57 Moderate Sedation for Non-Anesthesia Care Givers - Pediatrics
 58 NUR 0051: Introduction to Nursing Practice
 59 NUR 1050: Nursing Care of Mothers, Newborns, and Families
 60 NUR 1052 Nursing Care of Children and Families
 61 NUR 1120 - Advanced Nursing Management of the Adult with Acute/Complex Health
 Problems
 62 NUR 1121 - Nursing Advanced Clinical Problem Solving
 63 NUR 1233 - Advanced Clinical Problem Solving/Transition into Professional
 Nursing Practice
 64 NUR 1710 - Nursing Advanced Cardio-Pulmonary
 65 NURSANS - SRNA Physical Assessment
 66 NURSANS 2740 - SRNA Double Lumen Tube / Jet Ventilation
 67 NURSANS 2740 - SRNA Introduction to Anesthesia Crisis Resource Management
 68 NURSANS 2740 - SRNA Invasive Monitoring/Central Line Placement
 69 NURSANS 2750: Course Content Integration and Simulation
 70 NURSANS 2750: Difficult Airway Workshop
 71 NURSANS 2750: Trauma Rounds
 72 NURSANS 2760 - Anesthesia Crisis Leadership Training Nursing Third Year
 73 Nursing Fast Track Back
 74 Organized Structured Clinical Exam: Ambulatory Internal Medicine Clerkship
 75 Organized Structured Clinical Exam: Clinical Competency Assessment
 76 Organized Structured Clinical Exam: Clinical Skills Assessment
 77 Organized Structured Clinical Exam: Clinical Skills Assessment: Physical
 Diagnosis II
 78 Organized Structured Clinical Exam: Combined Ambulatory Medical Clerkship
 79 Pediatric Advanced Life Support Simulation Research
 80 Pediatric Resident Organized Structured Clinical Exam
 81 Pharm 5221: Introduction to Critical Care

- 82 RaPiD-T: WMD Training for First Responders
- 83 Research Difficult Airway Management Accuracy
- 84 Research Difficult Airway Management Reproducibility of Scores
- 85 Research Difficult Airway Management Retention
- 86 Respiratory Therapy Mini-BAL
- 87 Second Look Weekend Course for Medical Student Applicants
- 88 Simulation Training
- 89 Surgical Advanced Crisis Leadership Training
- 90 Thoracic Anesthesia Simulation for Residents
- 91 Validation of the optimal single-provider facemask ventilation

コース実施風景

この写真が実際にこの施設を使用しているところ見学したものである。この日は中心静脈路確保のコースであった。たいていがインストラクター1人に対して受講生は2・3名で構成されている。WISERのコースの特徴の1つとして挙げられるのが、インストラクターはどの部屋からでもPCに自分のIDを入力すればそのコースのテキストをウェブ上で閲覧することができるため、実際の手技に入る前の導入・手技説明から穿刺する静脈または頸部の解剖、さらには穿刺方法の動画を参考資料にコースを進めることができる。

これにより最も効果的な Watch Then Practice を実行することができる。この日は受講生が2つのグループに分かれて、中心静脈路確保を学んでいたが、1つのブースでは実際に人形に穿刺する手技を学ぶブース、もう一つのブースはエコーを使用し穿刺する静脈を見つけ、エコー下で穿刺する手技を学ぶブースに分かれて行っていた。



図 25 中心静脈路確保のトレーニング風景 図 25 使用するシミュレーションマネキン