



Procedural Skills (AV & Software) Available in the Medical Education Media Center

The following title list of procedural skills media are available for UMKC faculty and student use. Circulation is for one week unless the item is on reserve. Programs can also be reserved for future classroom use. For our complete on-line catalog or further information, visit our web site at: www.umkc.edu/medicine/mediacenter or contact us at 235-1864 or 235-1832. We are located in room M2-C04A on the second floor of the School of Medicine.

ACP Clinical Skills Collection: Arthrocentesis and Joint Injection, American College of Physicians Clinical skills series, 1999, 2005, DVD, 23 min.

This video program demonstrates an aseptic technique for aspiration and injection of the knee, shoulder, wrist and hip. It will teach you how to locate injection sites using appropriate joint landmarks, remove joint fluid for diagnosis and therapeutic relief and inject therapeutic agents. Common clinical problems including bursitis, tendonitis and carpal tunnel are covered.

ACP Clinical Skills Collection: Using Skin Biopsy in the Office, American College of Physicians, American Society of Internal Medicine; 1999, 2005, DVD, VHS

This video program demonstrates three skin biopsy techniques performed on a patient in an office setting: the shave or saucerization biopsy, the punch biopsy and the elliptical excision biopsy. Step-by-step instruction is provided for each technique. The response of live tissue to these procedures is shown in clear detail and information on hemostasis and specimen handling is included. This program is designed for physicians who may have had some training in dermatology but who have not routinely performed skin biopsies.

Adult Airway Management: Principles and Techniques, Silverplatter, MAC CD

Programs describes the indications, risk and use of the airway control adjuncts, as well as the procedures and techniques of airway management (includes the anatomy and physiology of the human airway)

Blood Collection: The Routine Venipuncture

Provides step-by-step instruction using basic terminology. Discusses equipment specifications, considerations when choosing a venipuncture site, the standard order of draw for evacuated tubes, proper specimen identification, and Universal Precautions (VHS, 22 min.)

Central Venous Catheter Complications, American Society for Parenteral and Enteral Nutrition; distrib. NTIS, VHS, Pt. 1 – 34 min., Pt. 2 – 29 min., Pt. 3 – 37 min.

Morbidity associated with CVC use is at least 10 percent; the predominant cause of CVC complications reported to FDA is related to practitioner technique. Such complications include cardiac perforation, venous wall erosion, arterial perforation, thrombogenesis, air embolus, catheter fragment embolus, cardiac arrhythmia, and catheter misrouting. These videos are designed to help reduce the incidence of technique related complications associated with the use of central venous catheters.

Chest Drainage

Many patients require chest drainage, yet each has specific needs. Knowing how to meet those needs when managing a chest drainage system is a critical skill. This video includes how drainage systems work, patient preparation for intubation, set-up, locating and correcting air leaks, dislodging blood clots, assessing tidaling, chest tube clamping and chest tube removal (VHS, 30 min.)

Guide to Bedside Procedures in Internal Medicine: Abdominal Paracentesis and Arthrocentesis of the Knee, Medical Economics, 1996, VHS, 30 min., guide

Abdominal paracentesis and arthrocentesis of the knee is part of a series of programs designed to help internal medicine residents master the technical procedures that are a part of post-graduate training. The program reviews indications, contraindications, the procedures and complications.

Guide to Bedside Procedures in Internal Medicine: Nasogastric Tube Insertion and Arterial Puncture, Medical Economics, 1997, VHS, 26 min., guide

Nasogastric Tube Insertion and Arterial Puncture is part of a series designed to teach internal medicine residents the technical procedures required as part of their postgraduate training. The program reviews indications, contraindications, procedure, and complications. The Arterial Puncture segment includes a discussion on blood gas determinations and causes of acid-base disorders (metabolic and respiratory acidosis ; metabolic and respiratory alkalosis).

Guide to Bedside Procedures in Internal Medicine: Lumbar Puncture, Medical Economics, 1996, VHS, 26 min., guide

Lumbar Puncture is the first in a series of programs designed to help internal medicine residents master the technical procedures that are required as part of postgraduate training. Reviews indications, contraindications, the procedure, complications, and the cerebrospinal fluid findings.

Guide to Bedside Procedures in Internal Medicine: Thoracentesis, Medical Economics, 1996, VHS, 28 min., guide

This program was designed to help internal medicine residents master the technical procedures that are required for postgraduate training. Topics include: thoracentesis indications and complications, diagnostic use, treatment for pleural effusion and pneumothorax, pleural fluid appearance and characteristics, transudates and exudates and insertion methods.

Hospitalist Procedures Collection 1, Joseph S. Esherick, M.D., FAAFP; National Procedures Institute (Physician & Clinician Training Series), c2005

2 DVD's (1 DVD contains procedures, 38 min. & 1 DVD contains supplemental text); CONTENTS: Subclavian Vein Catheter Insertion (9.5 min.); Internal Jugular Vein Catheter Insertion (10 min.); Femoral Vein Catheter Insertion (8 min.); Bilevel Positive Airway Pressure Ventilation (4 min.); Pulmonary Artery Catheter Insertion (4 min.); Radial Arterial Line Insertion (3 min.).

SUMMARY: This DVD contains six procedural videos of actual hospitalized patients which demonstrate the proper technique for initiating bilevel positive airway pressure ventilation and performing a femoral vein catheter insertion, internal jugular vein catheter insertion, pulmonary artery catheter insertion, radial arterial line insertion and subclavian vein catheter insertion. The supplemental CD contains text documents that describe the equipment, indications, contraindications, complications, data interpretation, troubleshooting, technique and coding for each videotaped procedure. In addition, the CD contains information about informed consent, procedural sedation, airway assessment, hemodynamic monitoring and an introduction to mechanical ventilation.

Hospitalist Procedures Collection 2, Joseph S. Esherick, M.D., FAAFP; National Procedures Institute (Physician & Clinician Training Series), c2005

2 DVD's (1 DVD contains procedures, 32 min. & 1 DVD contains supplemental text); CONTENTS: Oral Endotracheal Intubation (2.5 min.); Laryngeal Mask Airway Insertion (1 min.); Bone Marrow Aspiration and Biopsy (7.5 min.); Lumbar Puncture (3 min.); Paracentesis (5 min.); Thoracentesis (6 min.); Tube Thoracostomy (6 min.);

SUMMARY: This DVD contains seven procedural videos of actual hospitalized patients which demonstrate bone marrow aspiration and biopsy, laryngeal mask airway insertion, lumbar puncture, the proper technique for oral endotracheal intubation, paracentesis, thoracentesis and tube thoracostomy. The supplemental CD contains text documents that describe the equipment, indications, contraindications, complications, data interpretation, troubleshooting, technique and coding for each videotaped procedure. In addition, the CD contains information about informed consent, procedural sedation, intermediate airways, intubation adjuncts and airway management.

Long Term Central Venous Catheters, Springhouse Corporation, VHS, 30 min.

Reviews the skills necessary to successfully manage and troubleshoot a surgically-placed long-term central venous catheter.

Lumbar Puncture Step by Step, Robert Bowden, BA; James Peacock, MD; Bayard Powell, MD; James Radford, MD; Publisher: Wake Forest University Baptist Medical Center, 2006, DVD
1 DVD, 25 min.

This video is a tutorial covering all aspects of performing the lumbar puncture procedure (LP). Learning Objectives: 1. List the indications and contraindications for performing an LP. 2. Describe the risks associated with performing an LP. 3. Demonstrate how to properly position the patient for the procedure. 4. Identify and assemble all the components of an LP tray. 5. Describe the key anatomical landmarks and relevant anatomy to be aware of to perform an LP. 6. State which is the interspace of choice for an LP and explain why. 7. Describe the proper technique for an LP injection. 7. List the possible problems arising during an LP; explain their causes and explain what to do about them. 8. Describe how to measure CSF pressure. 9. Describe how to collect samples of CSF. 10. List the laboratory tests performed on CSF and how to interpret their results. 11. List the possible complications associated with an LP. Previous Work and Effectiveness: The authors are unaware of any other non-commercial video tutorial that reviews the pertinent anatomy by schematic and cadaver demonstration and by step by step demonstration of performing the procedure on a patient.

Mosby's Primary Care Procedures: Arthrocentesis, Robert S. Wigton, Thomas G. Tape ; Mosby, 1999, CD-Rom

Offers multimedia instruction, self-evaluation, and continuing education in the performance of outpatient procedures, in this case: arthrocentesis. Content includes when and how to perform the procedure, how to prepare, and patient recovery. Subjects are divided by ankle, elbow, finger and toe, hip, knee, shoulder and wrist.

Mosby's Primary Care Procedures: Gynecologic Procedures and Women's Health, Robert S. Wigton, Thomas G. Tape ; Mosby, 1997, CD-Rom

Learn common gynecologic procedures that are performed in the clinical setting with this CD which guides you through patient examination, preparations and procedures. Detailed life-like animations illustrate key anatomic and clinical principles with rotation of three-dimensional animations for enhanced views. Includes: Pelvic exam and pap smear, endometrial biopsy, colposcopy, aspiration of breast nodule, examination of vaginal secretions and others.

Multimedia Primary Care Procedures, Michael Tuggy, Jorge Garcia, and Gary Newkirk; Elsevier Medical Publishing, 2006, DVD-ROM (PC or TV use)

1 DVD-ROM (Win or MAC use) & 1 DVD-r (allows full screen viewing on TV set or computer) + 1 "Pocket Procedures" printed text + online access to contents of DVD (request user ID and password from Media Center)

SUMMARY: This 'how-to' multimedia resource offers step-by-step guidance for 60 medical and surgical procedures. Video clips include biopsy, circumcision, colonoscopy, colposcopy, nasopharyngoscopy, dermatologic procedures, flexible sigmoidoscopy, no-scalpel vasectomy, inpatient procedures such as lumbar puncture, OB-GYN procedures, suturing and more. The videos are accompanied by professional voice-overs explaining cognitive aspects and technical 'pearls.' You may also download patient instructions and access CPT codes and ICD-9 codes. For the complete list of procedures, see "contents" below:

CONTENTS:

ANESTHESIA: Local anesthesia, Topical anesthesia, Digital block;

BIOPSY TECHNIQUES: Excisional skin biopsy, Punch biopsy, Shave biopsy;

SUTURES AND DRESSINGS: Instrument tie, Inverted subcuticular stitches, Subcuticular running stitches, Mattress stitches, Tissue glue, Topical hemostasis, Unna boot;

NEEDLE ASPIRATION: Needle aspiration of breast cysts;

DERMATOLOGY: Skin tag removal, Wart treatment, Abscess incision and drainage, Basal cell curettage and cautery, Lipoma removal, Ingrown toenail removal;

EYE, EARS, NOSE: Throat Nasopharyngoscopy, Cerumen impaction removal;

HAND/DIGIT: Ring removal;

ORTHOPEDICS: Arthrocentesis (knee aspiration); Joint injection (shoulder); Joint injection (knee), Trigger point injection, Lateral epicondyle injection;

GASTROENTEROLOGY: Anoscopy, Flexible sigmoidoscopy, Internal hemorrhoid banding, External haemorrhoid banding, Nasogastric intubation;

GYNECOLOGY: Pap smear, Cervical & Vaginal sampling, Cervical polyp removal, Bartholin's marsupialization, Bartholin's Cyst Word Catheter placement, Colposcopy, Loop electrosurgical excision (LEEP), Vulvar biopsy, Endometrial biopsy;

INPATIENT PROCEDURES: Lumbar puncture, Subclavian lines, Thoracentesis, Abdominal paracentesis;

OBSTETRICS: Vaginal delivery, Cesarean Section, Episiotomy - Laceration repair, Obstetric Ultrasound, Amniotomy, Amniotic fluid index ultrasound;

REPRODUCTIVE - FEMALE: IUD insertion, IUD removal, Diaphragm insertion;

REPRODUCTIVE - MALE: Neonatal circumcision, No-scalpel vasectomy;

URINARY BLADDER: Catheterization - female Bladder catheterization - male Suprapubic taps or aspirations

Procedural Skills for Internal Medicine, Robert S. Wigton, Thomas G. Tape ; Mosby Pub., Win CD
Software offers step-by-step tutorials for procedural skills, with video demonstrations for: Central venous line placement, thoracentesis, joint aspiration, lumbar puncture, abdominal paracentesis, arterial puncture for blood gas analysis and nasogastric intubation.

Screening for Tuberculosis: Administering and Reading the Mantoux Test, Centers for Disease Control, 1997, VHS, 19 min.

Demonstrates the technique for administering the Mantoux Tuberculosis screening test, along with interpreting the results.

SimBioSys Clinics, version 2

Computer Software, WIN CD;

SUMMARY: Real-time biological system simulator, allows exploration of human physiology in the clinical setting. Enter the world of a modern intensive care unit with the tools of the hospital at your fingertips. Perform diagnostic procedures including the physical exam, lab tests, ECG's, radiographs, and echocardiographs. Administer drugs and fluids, control the mechanical ventilator, and place various catheters. Provides understanding of physiology needed for rational management of critically ill patients.