# **Procedure Team Curriculum**

#### Introduction

The following curriculum is intended to offer guidance and description of how the residents will be supervised and evaluated with the use of a resident portfolio.

## I. Educational Purpose

The general internist should be able to perform various procedural tasks and exhibit a level of competency particularly in hospitalized patients. Despite ones ultimate career path, a basic level of ability to perform certain procedures is an invaluable tool. A procedure driven rotation offers the resident a higher degree of autonomy in clinical decision-making and patient care. Equally as important is the demonstration that the resident has the know-how and desire to safely use these tools in appropriate settings and patient care.

## **II. Learning Venue**

## A. Rotation Description and Expectations:

The Procedure team is a 2-week rotation from 8AM – 4:30PM block where the VA procedure resident will rotate with IR to perform procedures relevant to the practice of hospital medicine. They will also be available for procedure consults from the medicine teams. On the first day of the rotation at 8AM, the resident will reach out to the IR PA, Constance Duggan, at 51062 or via teams to obtain the procedure schedule for the week for which they will attend all procedures being performed pertinent to Internal Medicine. They will also be available for bedside medicine procedure consults during that time-frame which they will perform under the supervision of the IR PA (for paracentesis only) or under the supervision of the team attending requesting the procedure.

# B. Teaching Methods:

If the resident is already certified in the procedure, this will provide an opportunity to improve proficiency and troubleshooting. Education that occurs on this rotation is primarily from the opportunity to perform an array of procedures. If the resident is not credentialed in the particular procedure requested at that time, they will be supervised by the IR PA (for paracentesis only) or under the supervision of the team attending requesting the procedure after which the supervising provider will sign off on the procedure verification form to be entered into MedHub by EPO.

#### C. Mix of Diseases:

Procedures will include any invasive procedure that needs to be completed during the mention time and include but are not limited to central lines, thoracentesis, paracentesis, lumbar punctures, and placement of NG tube all supervised as required based on the residents procedure certifications and level of comfort in performing those procedures at the time of the rotation.

#### **III. Method of Evaluation**

**A.** The learning and competence of the resident's performance during the rotation will be based on:

**1.** Nursing Evaluations - This is primarily intended to evaluate if appropriate measures were taken, ie. Time-out, sterile technique, informed consent, etc.

**2.** Faculty/Peer Evaluations - Faculty and Peers on the consulting team are strongly encouraged to use concern or praise cards.

**3.** Patient Evaluations - It is possible that patients, when asked to evaluate their experience, may provide effective feedback to a member (or

members) of the procedure team.

## Reading lists and other educational resources to be used:

- New England Journal of Medicine Series of Articles and Videos on Clinical Medicine Series
  - Paracentesis: N Engl J Med 2006;355:e21; http://content.nejm.org/cgi/content/short/355/19/e21
    Control Veneue Catheteriation: N Engl J Med 256:e21. May 24
  - Central Venous Catheterization: N Engl J Med 356:e21, May 24, 2007; http://content.nejm.org/cgi/video/356/21/e21/
  - Thoracentesis: N Engl J Med 355:e16, October 12, 2006; <u>http://content.nejm.org/cgi/content/short/355/15/e16</u>
  - Lumbar Punctures: N Engl J Med 355:e12, September 28, 2006; <u>http://content.nejm.org/cgi/content/short/355/13/e12</u>
  - Incision and Drainage of an Abscess: Fitch MT, Manthey DE, McGinnis HD, Nicks BA, Pariyadath M. N Engl J Med 2007;357:e20, November 8, 2007; http://content.nejm.org/cgi/video/357/19/e20/
  - Arthrocentesis of the Knee: Thomsen TW, Shen S., Shaffer RW, Setnik GS. N Engl J Med 2006;354:e19, May 11, 2006; http://content.nejm.org/cgi/video/354/19/e19/
  - Nasogastric Intubation: Thomsen TW, Shaffer RW, Setnik GS. N Engl J Med 2006;354:e16, April 27, 2006; <u>http://content.nejm.org/cgi/video/354/17/e16/</u>
  - Placement of an Arterial Line: Tegtmeyer K, Brady G, Lai S, Hodo R, Braner D. N Engl J Med 2006;354:e13, April 13, 2006; http://content.nejm.org/cgi/video/354/15/e13/
- Attached supplemental readings
- Up-To-Date is recommended as a concise peer-reviewed source for on-the-spot information. Residents are encouraged to go to the original literature for more in-depth learning.

# Ancillary Educational Materials

Also available on-line: Harrison's Principle's of Internal Medicine, 14<sup>th</sup> ed. Merck Manual, 17<sup>th</sup> ed.

Guide to Clinical Preventive Services, 2<sup>nd</sup> ed. The Cochrane Library Medline and Grateful Med Databases

# IV. Rotation Specific Competencies

PGY-3s should be almost independent in these skills, be able to deal with unexpected events and ambiguous situations, and will demonstrate an increasing ability to teach others

Patient care

- Gather accurate information about patients, including performing a thorough history and physical examination
- Synthesize data into a prioritized problem list and differential diagnosis, then formulate diagnostic and therapeutic plans
- o Monitor and follow up patients appropriately
- Know the indications, contraindications, & risks of some invasive procedures and competently perform some invasive procedures
- Medical knowledge
  - Demonstrate an increasing fund of knowledge in the indications, contraindications, risks, proper technique and interpretation of samples from:
    - Arthrocentesis
    - Paracentesis
    - Thoracentesis
    - Central Venous Access
  - Identify ultrasonographic, and laboratory markers of transudative, exudative, and complicated effusions as well as empyema, and the indications for consultation to obtain definitive management of these problems
  - Identify the diagnosis and management of catheter- related thrombosis and blood stream infections
- Practice-based learning and improvement
  - o Accept feedback, learn from own errors and develop self-improvement plans
  - o Use information technology to manage information and access on-line medical information
  - PGY-3s should learn how to use knowledge of study designs and statistical methods to the critical appraisal of clinical studies and apply to the care of patients
- Interpersonal and communication skills
  - Demonstrate caring and respectful behaviors with patients, families, including those who are angry and frustrated; and all members of the health care team
  - o Counsel and educate patients and their families
  - o Conduct supportive and respectful discussions of informed consent
  - o Facilitate the learning of students and other health care professionals
  - Demonstrate ability to convey clinical information accurately and concisely in oral presentations and in chart notes
- Professionalism
  - Demonstrate respect, compassion, and integrity and appropriate concern for the patient's comfort
  - o Demonstrate a commitment to excellence and on-going professional development
  - Develop an appreciation for the ethical, cultural and socioeconomic dimensions of illness, demonstrating sensitivity and responsiveness to patients' culture, age, gender, and disabilities
  - Residents should display initiative and leadership; be able to delegate responsibility appropriately
- Systems-based practice
  - Understand and appreciate the importance of coordinating care with other members of the health care team
  - Learn the cost-effective use of diagnostic and therapeutic technology to minimize harm, particularly minimizing bloodstream infections and latrogenic harm from correctable systembased problems.