Procedure Teaching Summary Handout

* What are the stages of competency?
  + Novice
    - Early stages. Skills are learned through imitation and/or trial and error
  + Advanced beginner
    - Skills are becoming habitual, some confidence and proficiency being displayed
  + Competent
    - Skills are quick, accurate, coordinated
  + Proficient
    - Skills are well developed. Learner can modify/adapt to difficult situations
  + Expert
    - Able to create new methods/skills to address unique situations and specific problems
* Two methodologies of teaching
  + See one, Do one, Teach one (outdated)
    - Learner watches procedure performed by teacher
    - Learner performs the procedure under close supervision
    - Learner teaches the procedure to someone else
  + Learn, see, practice, prove, do, maintain
    - Learner acquires background knowledge of the procedure (videos and reading)
    - Instructor demonstates procedure to learner
    - Learner practices in a simulated environment with repetitive practice
    - Learner is assessed for competency in a simulated environment
    - Learner performs procedure on a patient
    - Learner receives continued feedback
* Trouble shooting
  + Important to point out most important and most dangerous steps
  + Provide tips for when things go wrong, encourage learner to work through complications rather than giving up
  + Avoid taking over when learner gets stuck unless it is dangerous for patient
  + Especially important for more competent learners who understand basics in order to allow progression to expert stage
* Resources for learners
  + <https://www.mededportal.org> (workshops and online sim)
  + <https://www.nejm.org/multimedia/videos-in-clinical-medicine>? (Procedure Videos)