Teaching on the run tips 6: determining competence

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Setting
On the round you review a patient who needs long-term intravenous antibiotics. Your registrar says she will put in a “PIC” (percutaneous intravenous catheter) later that day. As you wander off, you wonder how good she is at putting in a PIC line. You wonder who taught her, as you know you didn’t, and indeed, it is many years since you have done one.

Doctors in training need to practise to improve, and, whether we like it or not, practice often involves patients. While learning, it is possible that errors will occur. It is our responsibility as senior doctors to ensure that our trainees provide safe and good care and receive support in the learning environment. At a certain point, we also need to decide whether they are good enough to work alone. This involves assessing knowledge, skills, communication skills and professional behaviour. Often we rely on our “gut feeling” about whether they are capable. Is this sufficient? The focus of this teaching tips article is on how to decide when trainees are capable of carrying out procedural skills on patients.

Skills training
It is important to consider what skills you expect your junior doctor or trainee to perform either independently or under your observation, to let them know and to give them training when needed. As many hospitals or training programs now have structured training for common simple skills (eg, suturing) and extensive training and testing of competency for infrequently performed but life-saving skills (eg, intubation), it is initially important to find out what training junior doctors have had in such skills.

Framework for clinical assessment
A basic framework for determining clinical competence is shown in Box 1. The four stages move from “knowing” (awareness) up to “doing” (performance). For clinicians who assess junior staff, competence can be viewed as what these staff do in controlled situations, whereas performance is what they actually do when unsupervised. As described in “Tips 5”, trainees should not only demonstrate technical competence, but also be able to articulate the indications, contraindications and risks of a procedure, and be able to communicate these details to patients and know when to seek assistance. A trainee may be competent to insert a PIC line in a simulated setting, but, to perform well, he or she needs to be able to cope with a variety of situations (eg, patients who are obese, thin, well, unwell, agitated, or receiving anticoagulants) and know when to call for help.

Methods of assessment
Methods that can be used to assess skills include objective, structured clinical examinations, simulated and virtual settings, and “on-the-job” assessment. Each medical school, medical board, hospital and college uses its own range of tools and uses different methods for different levels. As clinicians, we are usually called upon to determine competence (can they do it safely in a supervised environment?) or performance (are they safe to do it alone?) while they work with us. How can we do this?

Tips for assessing competence and performance in the clinical setting
- Think about assessable moments. Structure work and teaching so you can observe behaviour.
- Gather information from multiple sources. Observe often and ask others (colleagues, registrars, nurses, patients).
- Ask trainees how they think they are going.
Take-home message

In determining whether a trainee is safe to carry out procedures on your patient:

- Know what you would expect at each level of training.
- Decide whether you are determining competence (can the trainee do it safely in a supervised environment?) or performance (is he or she safe to do it alone?).
- In the clinical setting, observe often and ask others.
- Provide constructive feedback and further training when needed.

- Tell trainees how they performed, offering timely and constructive feedback and supporting them when things don’t go well.
- Use a simple rating scale (Box 2) to guide your assessment as to whether further training is required.
- Get trainees to describe and demonstrate. This will allow you to determine their weaknesses (Box 2).

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References