Summary points

The severe organ shortage has generated desperation among people awaiting transplantation

A black market for kidneys purchased from living donors exists despite prohibitory laws

Everyone but the donor derives tangible benefit from a living donor transplant

Controlled, regulated compensation to living organ donors should be permitted as with donation of other body material

Legalised donation is likely to improve safety for both donors and recipients

why should the decision to donate an organ be viewed differently?
At the moment, kidneys are covertly transplanted in third world countries, from indigent donors into wealthy recipients. Bringer these activities out of the closet by introducing governmental supervision and funding will provide equity for the poor, who will get equal access to such transplants. It is appropriate that living donors, indigent or wealthy, share in the tangible benefits of their ethical concern for others. Not doing so, effectively restricting the disadvantaged, is unreasonably disingenuous.

Competency based postgraduate medical programmes are spreading fairly rapidly in response to the new demands of health care. In the past 10 years, Canada, the United States, the Netherlands, and the United Kingdom have introduced competency models and other countries are following.1-5 These frameworks are valuable, as they renew our thinking about the qualities of doctors that really matter.

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Paramount in these developments is the view that quality of training should be reflected in the quality of the outcome—that is, the performance of its graduates. As postgraduate training almost fully focuses on learning in practice, training and assessment moves around the top two levels of Miller’s hierarchical framework for clinical assessment (figure).7 Knowledge and applied knowledge of residents may be interesting, but performance in practice is the real thing. The question is: How can we assess it?

Competency does not necessarily predict performance

Competency based training suggests that competence and competencies are what we want trainees to attain. But is this the same as performance? If a doctor is competent, what happens if she does not perform according to her assessed competence? Most authors agree that performance involves more than...
Consider two residents, 1 and 2. Resident 1 scored A on the knowledge, applied knowledge, and objective skills examinations whereas resident 2 scored B. Both serve in a night shift in the hospital, and you are on call that week. Each of them faces a critical acute care problem. Resident 1 decides not to call you and manages according to the best of his ability. Resident 2 is hesitant and calls you to discuss the case. Management is then carried out in line with your advice. Which resident, in terms of the “does” level, should receive the highest mark? Who would you trust most to do night shifts? Resident B’s behaviour may yield better care than resident A’s.

Just as trainees’ scores for “knows” and “knows how” do not necessarily predict scores for “shows how,” all these may not predict the “does.” The outcome of care may be more important than the trainee’s attributes in terms of knowledge and skill. It is important to grasp this factor, as the movement towards competency based training asks for assessment of outcome at the “does” level.  

Different approach to assessment

Specialty associations, universities, and programme directors face the task of devising assessment models related to the new competency frameworks. This is difficult. Let’s take the Canadian framework (CanMEDS) as an example. This model states that medical professionals should adequately execute the roles of medical expert, communicator, collaborator, scholar, health advocate, and professional. Clearly, these roles are so intertwined that assessing each of them separately would make little sense. Another problem is their broadness. The ability to collaborate in one situation may not predict it for another situation. The same problems hold for other roles and for underlying detailed key competencies formulated within each of these competency frameworks. Attempting to assess them separately may result in a trivialised set of attained abilities.

The sum of what professionals do is far greater than any parts that can be described in competence terms. Identifying a lack of competence may be possible, but confirming the attainment of a competency is difficult. To further develop educational technology and sophistication of assessment methods does not seem the right direction. This may atomise competencies, increase bureaucracy, and move away from expert opinion and from what really matters in day to day clinical practice. We need another direction.

Maybe we should not focus on competencies but on day to day activities and accomplishments of our trainees and infer the presence of competencies from adequately executed professional activities. These are what expert supervisors can assess. The question is primarily how to optimise expert judgment of clinical performance, given the competency frameworks.

Trust

Here is where trust enters our thinking. We want medical doctors whom we can trust to take care of us, our family and friends, and anyone else. We may distrust incompetent doctors, but we also distrust those who, for whatever reason, do not act according to their ability, those who take too big risks, and those who make mistakes because they work sloppily. If clinical supervisors think of their trainees, they would be able to identify those whom they would entrust with a complex medical task because they will either perform well and seek help if necessary or not accept the task if they don’t feel confident. Supervisors often know who to pick, even if they can’t tell exactly why.

This gut feeling does not always match with formally assessed knowledge or skill, but it may be more valid for its purpose. No external body or procedure can replace this type of expert judgment. One reason is that trust in the judgment of a supervisor implies a personal involvement in the outcome of the activity of the trainee. If this is your trainee, his or her accomplishments are part of your accomplishments. If it’s not done well, you will have a problem.

Relation of professional activities to competencies

<table>
<thead>
<tr>
<th>Entrustable professional activities (to be appraised)</th>
<th>Medical expert</th>
<th>Communicator</th>
<th>Collaborator</th>
<th>Scholar</th>
<th>Health advocate</th>
<th>Manager</th>
<th>Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring blood pressure</td>
<td>++</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
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<td>+</td>
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<tr>
<td>Performing venepuncture</td>
<td>++</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Performing appendectomy</td>
<td>++</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
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<tr>
<td>Giving morning report after night call</td>
<td>+</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Designing treatment protocol</td>
<td>+</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Chairing a multidisciplinary meeting</td>
<td>+</td>
<td>++</td>
<td>+</td>
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<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Requesting organ donation</td>
<td>+</td>
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<td>+</td>
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</table>

*From Canadian competencies framework."
Entrenstable professional activities

Postgraduate training and assessment should not move away from the clinical supervisor in the ward but should instead scaffold the supervisor’s role of appraising the execution of activities entrusted to residents. Entrusted, or rather, entrustable activities are not the same as competencies. It is easier to appraise a critical professional activity than a competency, such as health advocate, scholar, or professional. Competencies must be translated to professional activities. As competence is an attribute of a person and activities are part of daily work, they are different dimensions of performance (table). Most activities reflect several competencies and most competencies are applied in several activities.

The two questions that now arise are which critical professional activities cover the relevant competencies of the profession and how can supervisors learn when to entrust such activities to a trainee?

The box lists the criteria for entrustable professional activities. Identifying these activities for assessment purposes requires analysis of the profession. Procedures developed some decades ago, such as the critical incident technique and job or task analysis, are useful tools.

The recent design of a two year part time postgraduate competency based curriculum for public health doctors in the Netherlands was based on the analysis of the profession. Fifteen specialists attended two half day meetings and were asked mentally to go through a regular working routine and identify all entrustable professional activities they could think of. This initially yielded around 40 critical activities, which after discussion were reformulated and led to a list of nine general and 33 specific activities covering the essentials of the specialty. The analysis subsequently helped to establish the framework of the curriculum as the activities were all described with matrix links to 28 predetermined competencies and with suggestions on how to observe the trainees’ performance in these activities. The idea is that once a trainee has been entrusted to carry out all entrustable professional activities related to a specific competency, this competency is considered to be acquired.

Trust as a tool in assessment

The second question is how we know when we can entrust a critical professional activity to a trainee. In practice, it happens often. The attendant on call is an example. She knows the resident, hears the phrasing of the problem and the tone of a request on the phone, draws a conclusion, and must instantly decide whether to take over or leave the responsibility to the trainee.

Educators do not fully exploit these gut feelings about trustworthiness for assessment purposes. Yet they may be at variance with marks for a test or even for a clinical evaluation. We need to substantiate the factors that make us decide to trust a trainee to care for critically ill patients. Interestingly, doctors often make decisions in uncertainty. Here, medical decision making parallels educational decision making. Substantial evidence is available on methods that can help medical decision making. The same holds for decisions about staff planning, which has everything to do with entrustment of professional work. So, why not draw analogies between decision making in education and decision making in health care and human resource management and use similar methods?

Of course, decisions of entrustment have a practical side—if no alternative options are available, over-demanding responsibility is a risk. But probably in most cases, the judgments of supervisors can be justified. The pros and cons are balanced, including giving the trainee a chance to show his ability.

Decisions of entrustment also have a substantial element of subjectivity. Supervisors may differ greatly, and inevitably different decisions of entrustment will be made in similar situations. However, this is no reason to abandon expert judgment. As with clinical decision making, the experts need to do it, not the diagnostic assessment device. Of course, when evidence is available it should be used. And crucial decisions should be taken collectively among experts. In addition, we should develop assessment methods that include divergent expert judgment. The first steps on this path have been taken.

Trust, competence, and qualification

In conclusion, the idea of trust reflects a dimension of competence that reaches further than observed ability. It includes the real outcome of training—that is, the quality of care. Supervisors who really trust a trainee to carry out a procedure that is critical for patient care involve themselves in the assessment process. Entrusting a critical activity should lead to the trainee being granted responsibility in all similar future circumstances. Once sound feedback has confirmed a critical number of times that all went well, the entrustment could be formalised and considered a qualifica-

Criteria for entrustable professional activities

- Part of essential professional work
- Require specific knowledge, skill, and attitude
- Generally be acquired through training
- Lead to recognised output of professional labour
- Usually be confined to qualified staff
- Be independently executable within a time frame
- Be observable and measurable in their process and their outcome
- Lead to a conclusion (done well or not well)
- Reflect the competencies to be acquired

Summary points

- Quality of training should be reflected in performance rather than in competence of graduates
- Adequate performance includes the ability and inclination to apply competence in a way that optimises the outcome of professional activities
- No external body or procedure can replace expert judgment of accomplishments
- Trust by a supervisor reflects competence and reaches further than observed ability
tion to act independently. It means that competence is present, as it is a prerequisite for the adequate execution of the activity.

The ideas I have elaborated need further investigation. But it is essential that innovation of postgraduate training should focus on expert appraisal of performance in practice and that trainers be qualified once they can be trusted to bear the responsibility for specific, entrusted, professional activities.

Competing interests: None declared.

Contributors and sources: OIC was involved in the introduction of the CanMEDS model of competency-based postgraduate training in 2004 in the Netherlands, as an adviser of the Dutch Central College of Medical Specialties. He currently advises specialty associations about reform of postgraduate medical training.


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Peer review training

BMA House, London

Peer review is fundamental to science but has largely been an amateur process, with new reviewers learning their trade like apprentices. It is possible to learn about critical appraisal of research papers and other academic articles in many places, but do you really understand what editors want from you? BMJ is running a series of workshops aimed at providing an overview on how to approach peer review, developed with the less experienced reviewer in mind. The following dates are available in 2006:
21 November—led by Dr Trish Groves, deputy editor, BMJ
22 November—led by Dr Tessa Richards, assistant editor, BMJ.

The places will be filled on a first come, first served basis. If you would like to book please email Rachel Naish (rnaish@bmjgroup.com) with your full contact details.

August is medical staffing month

August again. Time for a change of job. Fortunately for me, after a recent interview I was offered exactly the job I wanted, which I gratefully accepted. After the interview, a woman from medical staffing took copies of my documents. A few days later I received a written job offer through the post.

A week later I was telephoned by the same woman in medical staffing, and she offered me the post again. She seemed a little surprised when I asked if this was the same job as the week before. She then asked me if I could send all my documents to her, as she would need copies of them. After establishing that she already had copies, she asked if I had returned all the forms she had sent me in the post, and I reassured her that I had.

The next day she called again to ask if I had sent the forms back. Again, she seemed surprised when I asked if these were the same forms we had discussed the day before. They were, and she had forgotten about our conversation.

Last week, I contacted the consultant’s secretary to get a copy of the rota. It hasn’t been written yet. I then received all the paperwork for my induction. Today, I received a telephone call from a medical staff department at a different hospital in the trust trying to establish if I have the correct criminal records paperwork. I reassured them that I do, and that I had given a copy to the original woman in medical staffing, and I asked why they were interested. It turns out I am due to start in their hospital tomorrow—didn’t I know?

Two hours later I received a call from the original woman in medical staffing, telling me that I’m due to start work at the other hospital—and please ignore the induction paperwork that I’ve been sent.

On the plus side, for the first time in four years of working for the NHS, I’ve actually been sent a contract for the job before I start it. It’s wrong, of course.

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We welcome articles up to 600 words on topics such as A memorable patient, A paper that changed my practice, My most unfortunate mistake, or any other piece conveying analysis and comment.

We also welcome contributions for “Endpieces,” consisting of quotations of up to 80 words (but most are considerably shorter) from any source, ancient or modern, which have appealed to the reader.