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Reducing anxiety in new ultrasound students: is peer-mentoring an effective method?

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Background: Returning to university after a period away from academia has been reported to bring a degree of stress and anxiety amongst ultrasound students. Peer support has been cited as a method of reducing anxiety in undergraduate students from a variety of disciplines, including those within the healthcare sector.

Method: This study aims to identify whether peer discussion could be effective in supporting postgraduate ultrasound students. Nineteen new ultrasound students (65%), from a single institution, participated in a session of peer support as part of the induction programme. Peers from the previous cohort answered questions regarding the course in small groups. Anxiety levels before and after the session were measured using the short form Stait Trait Anxiety Inventory (STAI). Feedback was also collected via a short questionnaire. Non-research participating students were involved in the peer support session, so none were disadvantaged.

Results: There was a significant reduction in anxiety scores following the session of peer mentoring (p=<0.0001). Student opinion favoured this method of support.

Conclusion: Students valued the peer support session, which provided a relaxed environment to discuss their concerns. Anxiety levels were significantly reduced following the session. The use of peer support will be developed further in the ultrasound programme to evaluate other areas which might benefit the student learning experience. The value to the peers could also be investigated.

The impact of a clinically-orientated approach to teaching physics in ultrasound to sonography students

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Background: It is recognised by professional bodies (eg CASE) that student sonographers need to be educated in the science and technology of ultrasound equipment, both for patient safety and to obtain the best diagnostic image possible. Sonographers who study ultrasound physics are known by teaching practitioners to have difficulties in comprehending the topic. The purpose of this action research was to evaluate if deeper learning might be achieved through more engaging activities which focussed on active learning, and incorporated stronger links to clinical applications.

Method: A review of current ultrasound physics teaching methods was conducted via peer review. The student’s preconceptions were explored using a survey. A newly designed module was purposefully incorporated small group tutorials led by members of the academic team and practical ultrasound lab activities. The impact of this intervention was evaluated via student feedback.

Results: The majority of respondents had negative experiences learning ultrasound physics. Following the intervention, students generally felt they had an improved understanding of ultrasound physics and technology and that they were better equipped to apply this to their clinical work.

Conclusion: This action research adopted qualitatively confirmed that the more engaging methods has improved student’s perception of studying ultrasound physics and the belief that physics does indeed apply to their work as clinical practitioners. Overall, this makes students more likely to apply these principles in clinical practice, thereby aiding the development of safe and competent practitioners. Future studies can expand this approach to larger cohorts of students.

An overview of academy based ultrasound training for speciality radiology registrars

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Background: Radiology academies were introduced with the aim of addressing the shortfall of Radiologists. The academy facilitates training over five years for an increased number of specialist trainees (ST1-5) by teaching large numbers of trainees on site to complement their clinical placements. Following the appointment of two Consultant Sonographers in 2016, we have implemented a new training programme for our ST1 to ST3 trainees accommodating increased numbers without detriment to quality.

Purpose: In our aim to produce Radiologists with high quality ultrasound skills, this poster will give an overview of the US training of the 82 trainees within our Radiology Academy. The methods and resources used to tailor the teaching to the requirements of trainees at different stages of their training will be outlined. The importance of feedback in informing teaching will be discussed.