

INSTRUCTIONAL SKILLS IN THE CLINICAL SETTING WORKSHOP

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ABSTRACT

This article describes a workshop offered annually by the radiation and imaging programs at Bellevue College, Bellevue, WA. The workshop provides an educator's perspective to those who teach students in our clinical internships. An outline of the workshop is given as are reasons for its ongoing success.

INTRODUCTION

Allied health educational programs rely on clinical professionals to teach our students. But these professionals may not be trained in the educational process. They may not know about learning styles or how to provide meaningful evaluations. They did not necessarily expect to take on the role of instructor when they entered their healthcare profession. At my institution, we have addressed this issue by offering an annual day-long workshop titled “Instructional Skills in the Clinical Setting.”

The workshop was originally developed some 20 years ago by the clinical coordinator for our radiation therapy program, in response to concerns raised in the accreditation process. Over time, it has morphed into presentations by faculty from the entry-level radiation and imaging programs: radiologic technology, nuclear medicine technology, radiation therapy, and diagnostic ultrasound. Technologists from all of the hospitals and clinics that host our students are invited. This article outlines the topics covered in the workshop.

LOGISTICS

The workshop is offered on a Saturday from 8:30 AM to 4 PM, and awards six hours of ASRT-approved continuing education. For a fairly nominal fee of \$25 per person, participants receive handouts for each session, lunch, morning and afternoon snacks, and beverages. The first two speakers present in the morning and the third and fourth after lunch. The workshop ends with a video montage of students from each program, expressing their appreciation of their clinical instructors. The workshop is advertised to our own clinical partners and also to other allied health associate- and bachelor’s-level programs in our institution.

WORKSHOP OBJECTIVES

The overall goals of the workshop are as follows:

1. Describe the multiple aspects of the clinical instructor role.
2. Discuss how student learning styles and preferences can be used to advantage in clinical instruction.
3. Implement a variety of evaluation tools and formats.
4. Demonstrate helpful ways to provide feedback and encouragement.
5. Discuss common issues that arise in clinical instruction and ways to address them.

The four presentations are: Dimensions of Clinical Learning; Approaches to Learning; Evaluation Techniques; and Common Clinical Issues. The following provides a brief summary of what is included in each talk, and a sense of the participants' reactions to each.

DIMENSIONS OF CLINICAL INSTRUCTION

The workshop begins with an overview of the roles of the clinical instructor, which include coach, mentor, exemplar of good clinical practice, and disciplinarian. The opening exercise asks those present recall their own days as students, and to name characteristics of their favorite clinical instructor. This exercise reminds these professionals of their own route to competence, and contrasts their current high level of expertise to their students' still-developing skills. Short videos are used to illustrate this gap, giving the clinical instructors a sense of empathy for the students. This session is also used to communicate important legal aspects of the educator role (supervision, HIPAA/FERPA, sexual harassment).

The clinical instructor has a unique role that impacts student learning in ways both obvious and subtle, and simple gestures are often the ones that make the most difference. The research presented by Knight in this issue (1) illuminates key personal aspects of being a clinical instructor. Information from the presentation by Knight at the SNMMI 2017 annual meeting was incorporated by the speaker for last fall's workshop, and this content was very well received by those present. The speaker outlined factors that motivate students to do well and factors that demotivate students. The finding that

student-clinical instructor interpersonal interactions are key to student motivation seemed to resonate with the attendees.

Another set of concepts covered in this presentation is the progression from novice to expert, and the potential for an “expert blind spot” that can block the student’s understanding. The learning process can be described as progressing in this order (2):

- Unconscious incompetence – lack of awareness of the scope of knowledge required
- Conscious incompetence – awareness of the scope of knowledge still to be learned
- Conscious competence – possession of knowledge, but needing conscious thought
- Unconscious competence – ability to perform without requiring conscious thought

Gaining an understanding of themselves as experts who have unconscious competence, and their students as still in the early stages of gaining competence, provides attendees with a perspective that many have not previously understood. This perspective, in turn, helps them to become better instructors of our students.

APPROACHES TO LEARNING

The second part of the workshop is the most theoretical in nature. “Approaches to Learning” addresses three understandings of brain function and differences in learning preferences. The first is the left-brain/right-brain dichotomy. While most students can function well in both sides of their brains under normal circumstances, clinical instructors need to be aware that when under stress, most of us tend to work in our preferred brain hemisphere. Those who are naturally left-brained tend to become more analytical and dispassionate, whereas those who are natural right-brained may tend to become more global and emotional.

Secondly, a four-quadrant theory of preferred learning styles is reviewed. There are actually several versions of this construct (3, 4), which can be summarized as follows:

- Theorist – prefers to understand big picture concepts
- Pragmatist – prefers to have step-by-step instructions
- Activist – prefers to learn by doing
- Reflector – prefers to learn through understand feelings

Awareness of an individual student's preferred learning style provides insight that improves the student-clinical instructor interaction and ultimately the level of student success.

The third understanding of how students learn is the visual/auditory/kinesthetic set of preferences for taking in information. While most people can operate easily in any of these three choices, a student who needs a particular kind of input will struggle when that kind of input is not available. In this section as in the previous two, examples are provided of students whose learning styles were problematic to the process of clinical instruction, illustrating that an understanding of the learning style contributes to a better outcome for the student.

The workshop audience generally expresses appreciation for the increased understanding of the varieties of learning styles. Learning is enhanced by supplying time and tools to allow audience members to identify their own learning styles. This presentation is the most content-heavy, which tends to lead to more mixed reviews, but the opportunity to use these tools to find their own preferences is often a high point of the workshop.

EVALUATION METHODS

Evaluation of student progress is a topic that educators know well but is generally beyond the scope of clinical practice. This presentation provides an understanding of the types of evaluations, the rationale for each, and the ways these can be used in assessment of student accomplishments. The session is designed to allow attendees to separate into modality-specific groups, to review the evaluation tools that are used within each program. The clinical instructors benefit from the

opportunity to hear how the evaluations are used by the programs, and the programs benefit from the clinical instructors' feedback. It is not uncommon for a program to make a change based on feedback received at the workshop.

One emphasis in this talk is on how to give feedback in a way that is positive for both student and clinical instructor. The presenter talks about the need to be specific about communicating expectations early in a clinical rotation, so that the end-of-term evaluation is not the first time they are brought up. While no student ever likes to receive criticism, it is the only way to mold a student into a good technologist, and that giving the criticism early allows the student to show improvement over the course of the evaluation period. The presentation provides examples of past evaluation comments, both helpful and unhelpful, to give the clinical instructors a better sense of how these come across to the student.

COMMON CLINICAL ISSUES

The final presentation in the workshop is on issues that commonly arise with students in clinical internships, including inappropriate behavior, communication difficulties, and a lack of professionalism. This session is again filled with examples from our own experiences with students. These might include a student disrupting the workplace daily on arrival; a "helicopter student" trying to learn everything but not doing anything on his or her own; and a student engaging in departmental gossip. Recently, the presenter has added discussion of younger students' perceived "deficiencies" compared to older generations, such as their dependence on their phones and their need for positive feedback, and how to handle these behaviors in the clinical setting.

The discussion of different generations, and how each adjusts to the clinical setting, evolves each year as our audience changes. This year, when the presenter suggested that Millennials highly value collaboration, the Millennials in the audience immediately validated this statement and gave their own

examples of collaboration, either as students themselves or in their clinical work with students. The entire group benefits from the perspective that can be offered by each attendee, allowing all involved in the workshop to learn from each other.

CONCLUSION

Attendees generally respond very positively to the individual presentations, the opportunity to interact with and make suggestions to the program faculty, and the broader perspective they gain from the presentations and from other clinical instructors. The workshop's success results from a couple of intentional decisions. One is the use of real-life examples. This makes the workshop very relevant to the attendees. The other is that plenty of time and space for audience participation are incorporated. There are opportunities for increased understanding of oneself, discussion of teaching techniques, and troubleshooting situations that have been encountered. In the big picture, the more familiar our clinical instructors are with the educational process, the better they will be able to educate our students to become good technologists.

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