Chapter XIII
Motivating Healthcare Students in Using ICTs

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ABSTRACT

Motivating and teaching healthcare students to use information and communication technologies represent a challenge. For the successful integration of healthcare and technology, there must be an investment in the organization, but particularly in its people. Motivation and a lot of practical work are mandatory for teaching informatics in healthcare. A practical knowledge of informatics is an investment for healthcare students that can improve their quality of study, work efficiency, and everyday life. In this article, four examples of connecting healthcare jobs with informatics are presented. Connecting healthcare students’ work and everyday lives is an efficient way of motivating them to use information and communication technologies.

INTRODUCTION

The usage of modern information and communication technologies in healthcare became mandatory. Services and technologies like telemedicine, e-learning, medical and pharmaceutical databases, robotized tele-operating systems, computer-assisted radiology, and so forth can provide healthcare professionals with access to the latest knowledge and help them in their everyday work.

Working as a lecturer of informatics in healthcare at the College of Healthcare Izola, University of Primorska, I realized that the majority of my students, particularly the older ones, are afraid of new technologies and try to avoid them. The causes can be the following:

- Inappropriate education in information technologies
- No opportunity to do practical work with computer applications and services like the World Wide Web and e-mail
- The opinion that healthcare specialists are not computer specialists
- The belief that they are too old to learn and use information technologies
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PRACTICAL EXAMPLES OF MOTIVATING HEALTHCARE STUDENTS TO LEARN ABOUT ICT

Example 1: Von Neuman Model of the Computer with a Screwdriver and Medical Input-Output Devices

When we have a class full of healthcare students and we try to explain to them the Von Neuman model of the computer, we soon notice that 90% of them are not interested in the topic at all. First, we must motivate them by bringing in a personal computer and a screwdriver. Physical contact with the computer and its parts reduces the fear of the computer that some students have.

Then we try to link the model of the computer to the everyday life of a healthcare professional. After we explain what input and output devices are, we present them with the monitor, mouse, printer, keyboard, and other devices specific to healthcare and medicine, such as the following:

- Electrocardiograms (ECG or EKG)
- Radiography devices
- Ultrasound devices
- Laboratory devices

In this chapter, some practical examples of the motivation of students in learning information and communication technologies, and using them in everyday life, are described. Motivation is an internal process that creates and maintains the desire to move toward goals (http://www.psychadvantage.com/glossary.html). Our aim is to transform students into advanced users, capable to use the computer and operating system, determine a simple bug, use the Internet and so forth, and apply their knowledge of information and communication technologies in healthcare.

Figure 1. Input-output devices that are specific to healthcare and medicine
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