BÖLÜM 10

NEW TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE APPLICATIONS IN NURSING

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INTRODUCTION

Scientific nursing applications depend on fund of knowledge that constantly changes with new discoveries and innovations[1]. Accordingly, today nursing has been separated from traditional perception and turned into an applied discipline which renews itself with scientific, technological, socio-cultural changes and deals with individual, family and community health[2]. Undoubtedly, one of the most important effects in this transformation is social needs that alter based on the introduction of developing technology and technological applications. In nursing practices, the technology is used in many fields aiming to support daily life activities of patients, help in their interaction, and train the patients and enable their access to health services[3]. Furthermore, success of nurses depends not only on nursing care practices but also on familiarity with the ability to know and apply modern technology which helps nursing to develop through continuous learning and improvement[4]. Lusmilasari et al. (2020), in their study, underline that technology and information should be among the top ten subjects which should be prioritized in research[5]. Therefore, it is necessary to examine the current situation of nursing studies on new technologies, to know how these technologies may affect nursing practices, nursing roles and responsibilities, care of healthy individuals or patients, nursing workload and nursing values and what problems they may cause.

The aim of this review is to mirror the latest technological products and developments used now or to be used in near future in the field of nursing and to seek into the effect of these technologies on nursing.

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technological developments to show professional stance. Also, there should be strategies to allow cooperation of human nurses and nurse robots.

Considering that nurses will work more with robot nurses in future, it is important to raise students' awareness on this issue during their nursing education, and to direct the tech-savvy new generation to elective courses related to artificial intelligence technologies from engineering faculties in the curriculum of nursing. Thus, this will enable the training of qualified nurses with an ability to not only use these technologies but also develop new software.

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