

**Abstract:****Challenges in Knowledge Transmission Through Dental Pre-Clinic Course to Clinic Course Among Ardabil Dental Students: A Mixed Method Study**

**Introduction:** The present study was conducted with the aim of challenges in knowledge transmission through dental pre-clinic course to clinic course between ardabil dental students as a mixed method study.

**Materials and methods:** In this combined study, a semi-structured interview and a researcher-made questionnaire were used to collect data. In the quantitative part of the study, the challenges were analyzed based on gender, grade point average and term using independent t-test and one-way analysis of variance with an alpha level of less than 5% in SPSS version 24 software.

**Results:** The results of the survey showed that the challenges of realizing clinical education in the present study after coding and prioritization include 9 items: support problems, poor study, poor clinical skills, lack of patients, poor educational planning, student stress, poor communication between students and professors, student indolence, and unnecessary strictness of professors. The challenges of transferring knowledge from the pre-clinic course to the clinic course in the current study include 8 challenges: lack or shortage of educational equipment, weakness in covering practical training needs, differences in dentistry with the actual field of the patient's bed, weakness in covering the principles of practical work (sterilization), stress in Contact with the patient, weakness in practical (skill) training, weak training of treatment plan, weak physical presence of professors were for training. Also, the facilitators of knowledge transfer from the pre-clinic course to the clinic course included practical training on real teeth, sufficient practice, creating a suitable atmosphere for stress-free training, individual study and ethics, and proper communication of professors. Further, the results showed that there was no significant difference in most of the questions of the challenges of realizing clinical education, knowledge transfer and facilitators from the pre-clinic course to the clinic course based on gender, grade point average and academic semester.

**Conclusion:** Dental students of Ardabil University of Medical Sciences face many challenges in transferring knowledge from pre-clinic to clinic, which can be reduced with careful planning.

**Key words:** Pre-Clinical Course, Clinic Course, Dental Education.