DEVELOPMENT AND UTILIZATION OF NEW ELECTRONIC DENTAL RECORD (EDR) FOR DENTISTS

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ABSTRACT

Dental records are essential to dentistry, serving as a central repository for patient information and facilitating effective treatment planning and care delivery. Traditionally, paper-based dental records have been the standard in documenting patient data. These records include critical information such as demographic details, medical history, illness records, and procedures performed. In recent years, technological advancements have led to the adoption of electronic dental records (EDRs) in many dental clinics. EDRs are digital systems that replicate and enhance the functionality of paper-based records by utilizing software to manage and store patient data. However, several barriers exist, such as a lack of resources and investment, limited awareness of the benefits of EDR, and resistance to change. The respondents were thirty-two (32) dentists practicing in private dental clinics in Laguna and three (3) IT experts. Two (2) researcher-made questionnaires were given to the dentists, and one (1) researcher-made questionnaire was given to the IT experts. The dentist utilized the new electronic dental record (EDR). Additionally, the IT experts evaluate the new electronic dental record (EDR). According to the study, dentists often face challenges with paper-based records, including difficulty finding records, time-consuming use, space usage, and damage. Dentists recommend that new electronic dental records (EDRs) have secure data, device accessibility, easy search functionality, comprehensive data storage, and user-friendliness. The new electronic dental record (EDR) is acceptable in dentistry due to its secure data, device accessibility, easy access to patient information, and step-by-step tutorial. IT experts assess the new electronic dental record (EDR) as very good in functionality, usability, efficiency, portability, reliability, and maintainability. The researcher suggests that dentists may use electronic dental records to address issues like record finding difficulty, space and time consumption, and damage risk. Developers may develop EDR based on dentists' recommendations or needs in the future.

Keywords: Dentists**,** Electronic Dental Record (EDR), Acceptance, Quality