Technology in Nursing

Name

Capella University

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Introduction

In this annotated bibliography, the identified technology is smart inhalers. These are sensor-based digital inhalers that record usage and transfer information to healthcare providers. Smart inhalers aid in managing asthma and COPD, which are prevalent and severe chronic diseases. This technology enables the enhancement of medication use, symptom monitoring, and early intervention (Hei et al., 2022). It links patients to the nurses and other healthcare professionals via remote supervision. This minimizes the need for hospital visits, leading to quality and safe care. This topic is also interesting as it demonstrates how relatively inexpensive gadgets can assist both nurses and patients in collaborating toward improved health outcomes.

The research was conducted through a concise evaluation of available, peer-reviewed articles in reliable academic databases. The objective was to identify recent researchers and publications that describe the role of smart inhalers in facilitating nursing care, enhancing safety, and influencing the quality of care. CINAHL and PubMed databases at Capella University Library have been used to search. These are some of the databases that provide access to numerous nursing and healthcare journals. The search targeted articles published in the last five years.

The search terms used included: “smart inhaler and asthma,” “digital inhaler and patient safety,” “smart inhaler and nursing practice,” and “smart inhaler and artificial intelligence.” The search was filtered for peer-reviewed articles only. The final selections contained articles that demonstrated an evident cultivation of how smart inhalers aid nurses in advancing care. Criteria were also applied to each article based on how each article contributed to explaining the relationship between this technology and patient outcome. This

was done in a sequence where the articles were credible, pertinent, and beneficial in compiling the bibliography.