

Research on the Perfusor Space PCA electric syringe pump

Quach Thi Huyen Trang

Abstract: In modern medicine, precise postoperative pain control is an important issue to enhance the quality of patient recovery. This study focuses on researching the Perfusor Space PCA electronic syringe pump to improve the automated treatment process through a combination of theoretical and experimental methods. The objective of the research is to determine the working performance, stability, and accuracy of this system in controlling drug dosage. The methodology includes technical evaluation and clinical trials on patients to ensure the system meets real medical needs. The expected results of the study not only demonstrate significant improvements in syringe pump performance but also make an important contribution to enhancing the quality of healthcare services.

Keywords: Electric syringe pump, Perfusor Space PCA, Automatic control, Postoperative pain control, Clinical trial