

Research on the operation, maintenance, and troubleshooting procedures of the DC3 ultrasound machine.

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Abstract: In the context of increasingly advanced healthcare, ensuring the operational efficiency of medical equipment is an urgent requirement. This study aims to investigate the operation, maintenance, and troubleshooting procedures for the DC3 ultrasound machine to improve the quality of medical services. The objective of the study is to build an automated maintenance management system based on experimental data analysis. The approach includes collecting and analyzing data from past incidents, along with deploying a predictive model to minimize equipment downtime. This study not only provides a technical solution but also holds practical application significance, contributing to enhancing the performance and reliability of the DC3 ultrasound machine in the medical field.

Keywords: Automatic maintenance, DC3 ultrasonic machine, maintenance management, data analysis, minimizing downtime