

The importance of automated external defibrillators location in healthcare

YA-FEN TSENG, SHINTARO MOHRI, HIROAKI ISHII

Received March 26, 2023

ABSTRACT. This article explores how to dispense and position an automated external defibrillator (AED), a portable device used for emergency treatment of sudden cardiac arrest. Due to the importance of AEDs to health care, more and more public places have begun to install AEDs to improve emergency response capabilities for sudden heart attacks. This paper addresses the AED allocation and location problem by considering the rectilinear distance and developing an algorithm. Promoting the use of AED in the field of healthcare can improve the public's awareness and ability of emergency response to cardiac arrest, so as to better protect people's health and life safety.