ABSTRACT

The author identifies obstacles in infusion monitoring by health workers, mainly due to the limited number of health workers compared to the number of patients in the hospital. To overcome this problem, this research will design an Internet of Things (IoT)-based infusion monitoring system so that health workers can monitor infusions remotely.

In designing this tool, the author uses a load cell sensor to identify the weight of the infusion, based on the law of physics that the reduced weight of an object indicates the reduced content in it. This tool is also equipped with SMS notification as a reminder for health workers, so that the infusion monitoring system can function more effectively. As a data receiver, a website is designed so that users can easily implement the device themselves.

IoT is considered an effective solution to overcome this problem, and a buzzer is also included as an offline reminder in case of problems, especially network problems. With the combination of IoT technology and SMS notifications, this monitoring tool is expected to help health workers in carrying out their duties.

Keywords: IoT, SMS, Health Worker, Load Cell