IOT BASED SMART BOTTLE IN HEALTHCARE

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ABSTRACT

Patient fed with saline or glucose requires the healthcare staffs and caretaker to monitor the flow rate of saline, adjust the flow rate on certain condition, stop the flow and to unplug the needle from the patient which is sometime become difficult as the healthcare staff needs to monitor other patients or may feel sleepy at night. This paper proposes an IoT based flow rate monitoring system to assist the healthcare staff. The system consists of level and flow measurement and a microcontroller to give prediction and alert. A clamp is introduced in the bottle such that, when the nurse fails to attend the patient, the clamps would clamp the saline bottle without any further delay. Hence, the fatal accidents can be prevented. The miniature module of the system was developed and found effective. It can be utilized in the hospitals for assisting the healthcare staff.

Keywords: Microcontroller, IoT.