

Warnet Gives IV Therapy Info to Nurse

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Five UGM students have made a medical tool to help nurses control Intravenous therapy for the patient. Named as Warning Nurse Notification (Warnet), the tool enables the nurse to have quick information on the IV therapy of their patient.

Dicky Bagaskara, one of those students, said the tool works using weight and pressure sensors. When the IV tool reaches the minimum weight, the sensor will produce signals that are sent to the nurse ward, turning on the alarm.

“Through an application already installed at the nurse ward, the nurse will know quickly which patient needs more IV therapy,” the Electronics and Instrumentation student said on Tuesday (31/5) at UGM Vocational School. The medical tool also displays information on the remaining of IV volume and type of fluid, patient’s personal data, and disease.

Along with M Ma’ruf Rizky S P P (Electronics and Instrumentation), M Amirul Akbar (Mechanical Engineering), Hanny Afifah (Midwifery), and Debora Naomi S P (French Literature), Dicky developed the tool under the guidance of lecturer Budi Sumanto, S.Si., M.Eng.



Dicky said they made the tool following the case when there is air embolism in the veins due to slow response from medical staff. This may be caused by the limited number of nurses whilst there are many patients needing care.

Embolism can be fatal as the air can go to the brains or heart. It occurs due to delayed replacement of IV therapy.

“Presently, the nurse monitors their patients manually in regular intervals. With this tool, embolism can be prevented,” Hanny said. She added the tool also supports the nurse’s work performance while the patient can rest without worrying too much about their IV therapy.

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