

## ABSTACT

In everyday life we often see a nurses repeatedly checking to find out the infusion bottle is still there or has run out of the water infusion. This will make the nurses busy in monitoring the infusion bottle. While the duties and responsibilities of the nurse is not only that. Nurses still have other duties such as checking patients and assisting doctors. While nurses should provide the best service to all patients.

Under these conditions, the system will be designed and realized to facilitate the task of monitoring the infusion nurse. The first step is to create a database with PHP and MySQL. This database will get input from sensors mounted on springs. Infusion bottle using wireless for communication between the hardware to the software. How this system work is when water in a 100 ml infusion bottles approaching the sensor will send a message that will sound an alarm and then mounted on the nurses' station and display them in a database.

From the result of this final projek is to come for infusion A1 deviation of 3,12%, while the A2 infusion of 16,34%. Then the infusion monitoring system can be used and based on the test system functionality is good enough.

**Keyword** : Infusion, sensors, hardware, software, wireless, database, nurses, patients.