

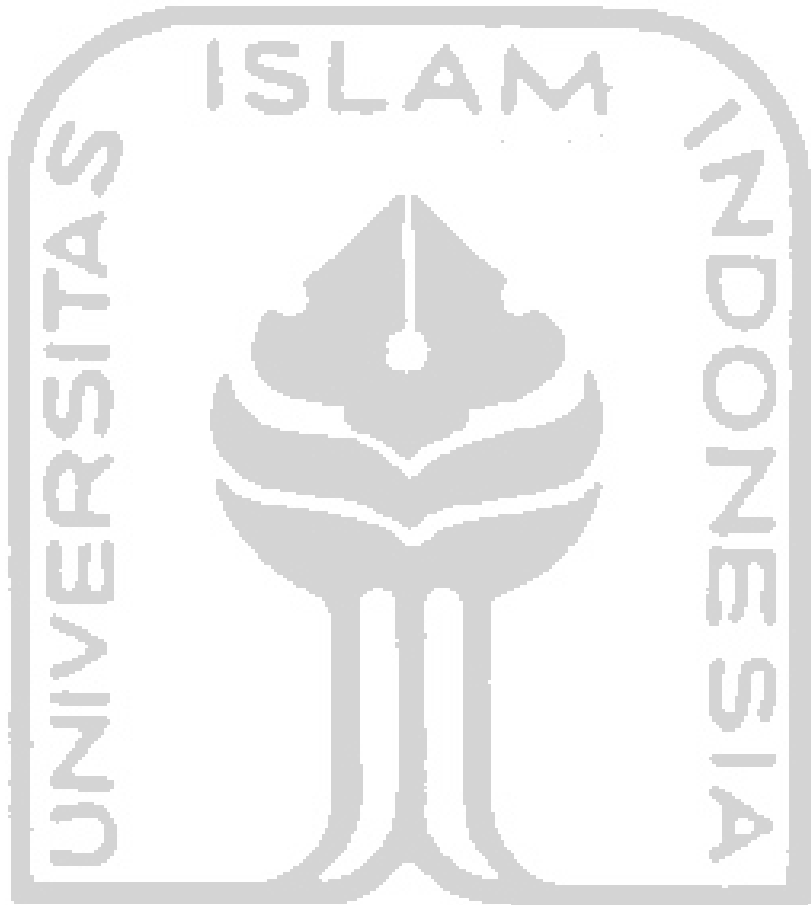
# **COMPATIBILITY OF PARACETAMOL INFUSION WITH SEDATION DRUGS INJECTION FOR INTENSIVE CARE UNIT (ICU) PATIENTS**

**Biyadika Dhigtsan Fadhrif  
Program Studi Farmasi**

## **ABSTRACT**

The ICU patients generally receive many drugs given by intravenous injection. The drug most widely used for ICU patients is paracetamol infusion with sedation drugs. Large amounts of intravenous administration exceeds available venous access, allowing incompatibility with Paracetamol. The purpose of this study is to evaluate the compatibility of paracetamol infusion mixed with five sedation injection drugs such as Diazepam, Haloperidol, Ketamine Chlorahydrate, Midazolam, and Propofol. Sedation drugs that has been prepared are mixed with paracetamol at 1:1 ratio, the mixtures are observed at 0, 1, 4 hours for 7 days after mixing. The mixture physically analyzed with visual observations, tyndal effect, and globule size. Chemical analysis is also done by looking at changes in it pH. The results of the visual and particle observations on the mixture of Paracetamol with Diazepam, Haloperidol, Ketamine Chlorahydrate, and Midazolam is clear, clean, bright and didn't shows any color change. Whereas the physical analysis of Propofol injection shows the forming of globules and the discoloration at first hour. The observation with a microscope shows that a mixture of injection drugs and paracetamol infusion made at 4th and 24th hour with 40x magnification was found globules in Diazepam and Propofol. The pH test on Haloperidol showed changes at 4th hour and 5th hour with  $> 0.5$  by difference calculated from time to time. According to the results of visual tests, the tyndall effect, globule size, and microscope shows that Paracetamol is incompatible with Diazepam and Propofol. while the pH test results shows that Paracetamol is incompatible with Haloperidol.

Keywords : Compatibility, Paracetamol infusion, Sedation drugs



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