THE EFFECT OF *Cissus quadrangularis* EXTRACT THERAPY ON SERUM ALKALINE PHOSPHATASE CONCENTRATION IN *Rattus norvegicus* OSTEOPOROTIC BONE FRACTURE

Vidi Purdianingrum

**ABSTRACT**

The purpose of this research was to determine the effect of *Cissus quadrangularis* extract therapy on serum alkaline phosphatase concentration in *Rattus norvegicus* osteoporotic bone fracture. This research used female *Rattus norvegicus* of Wistar strain. The rats were three months old with a weight range of 150-200 grams. Twenty-four rats were randomly divided into four groups, as follows T0(-) were non-ovariectomized rats that received 1.5 ml Na CMC as the negative control, T0(+) were ovariectomized rats that received 1.5 ml Na CMC as the positive control, T1 were ovariectomized rats that received raloxifene and T2 ovariectomized rats that received *Cissus quadrangularis* extract. Serum alkaline phosphatase were measured at week 2 and week 6 after osteotomy. Analysis of Variance did not show significant differences in the effect of *Cissus quadrangularis* extract on serum alkaline phosphatase concentration in *Rattus norvegicus* osteoporotic bone fracture (p>0.05).