

INTISARI

Penelitian tentang pengaruh pemberian infusa daun sirsak (*Annona muricata* L.) secara subkronis terhadap kadar glukosa darah tikus jantan dan betina bertujuan mengungkapkan spektrum efek toksik infusa daun sirsak terhadap metabolisme karbohidrat yang dilihat berdasarkan kadar glukosa darah dan mengungkapkan kekerabatan antara dosis infusa daun sirsak dengan spektrum efek toksik.

Penelitian ini bersifat eksperimental murni dengan rancangan penelitian acak lengkap pola searah. Metode yang dilakukan adalah pengukuran kadar glukosa darah tikus jantan dan betina secara subkronis dengan pemberian infusa daun sirsak selama 30 hari, kekerapan pemberian satu kali sehari. Sebanyak 50 tikus galur Sprague-Dawley (25 jantan dan 25 betina) berumur 2-3 bulan dibagi secara acak dalam 5 kelompok yaitu kelompok kontrol aquadest 8333 mg/kgBB, kelompok perlakuan yang diberi infusa daun sirsak dengan dosis berturut-turut yaitu 108; 180; 301; 503 mg/kgBB. Pada hari ke-1 sebelum pemberian infusa daun sirsak, glukosa darah diukur. Pada hari ke-31 setelah pemberian infusa daun sirsak, darah seluruh tikus diambil pada bagian sinus orbitalis untuk dilakukan pengukuran kadar glukosa darah.

Hasil penelitian tidak ditemukan spektrum efek toksik infusa daun sirsak terhadap kadar glukosa darah dan tidak ada kekerabatan antara dosis infusa daun sirsak dengan spektrum efek toksik.

Kata kunci : *Annona muricata* L., infusa, toksisitas, subkronis, glukosa

ABSTRACT

The research of the influence of aqueous extract from soursop leaves (*Annona muricata* L.) in subchronic of blood glucose levels of male and female rats aimed revealed the spectrum of toxic effects soursop leaf aqueous extract on the metabolism of carbohydrates seen by blood glucose levels and expressed relationship between doses soursop leaf aqueous extract with the spectrum of toxic effects.

This research is included to experimental study with one way-complete-random. The method used is the measurement of blood glucose levels in male and female rat by administering soursop leaf aqueous extract for 30 days with frequently once a day. This research using 50 Sprague-Dawley strain rats (25 males and 25 females) aged 2 till 3 months. The rats were randomly divided into 5 groups: control group 8333 mg/kg BW of distilled water, the treatment group was given a dose of soursop leaf aqueous extract is 108; 180; 301; 503 mg/kg BW. On day 1 before administration aqueous extract from soursop leaves, blood glucose was measured. On day 31 after administration aqueous extract from soursop leaves, whole rat blood was taken at the orbital sinus for measurement of blood glucose levels.

The results are there were no toxic effects spectrum aqueous extract from soursop leaves on blood glucose levels and there is no kinship between doses aqueous extract from soursop leaves with a spectrum of toxic effects.

Key words : *Annona muricata* L., aqueous extract, toxicity, subchronic, glucose