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***In vivo* anti-inflammatory activity of ethanol extracts of the parijoto fruit (*Medinilla speciosa* Blume)**

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Parijoto (*Medinilla speciosa* Blume) is traditionally plant that used on diarrheal diseases, inflammation and cancer sores and potentially as anti-hyperlipidemia and anti-bacterial that have been tested *in vivo* and *in vitro*. Based on research, parijoto fruit contains secondary metabolites such as flavonoids, tannins, saponins and glycosides. The purpose of this study was to determine the anti-inflammatory activity of the ethanol extract parijoto by using Carrageenan-Induced Paw Edema method. Sprague Dawley rats were divided into five groups: Negative control (Na CMC 0.5% b/v), positive control (Diclofenac sodium 5.14 mg/kg BW), ethanol extract parijoto fruit in various doses of 100, 200 and 400 mg/kg body weight. The test substances are given orally before induction with 0.2 mL carrageenan 1%. Measuring of the volume of rat's paw is conducted every hour for five hours after carrageenan induction by using plethysmometer. The results showed that rats which were given ethanol extract of 100, 200 and 400 mg/kg BW have significantly different percentage of edema compared to the negative control group ( $p \leq 0.05$ ). The percentage of edema inhibitions within the subjects group with doses of 100, 200 and 400 mg/kg BW are 74.58%, 72.88%, dan 50.85%, respectively. This result suggested that extract ethanol parijoto fruits are able to inhibit edema of rat's paw which is indicated that this extract has a potency to be developed as the anti-inflammatory agent.

**Biography**

Nurmeilis Nurdjaman Pujianto has completed her PhD from Faculty of Pharmacy University of Indonesia in 2016. She is a Lecturer in Pharmacology since 2005 at Pharmacy Department Faculty of Medicine and Health Sciences Syarif Hidayatullah State Islamic University (UIN) Jakarta, Indonesia. She is currently (since 2016) the Head of Pharmacy Department. She has published several paper in both international and national journal also presentation as oral presenter in international conference.

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