

**THE EFFECT OF GIVING *Eugenia polyantha* EXTRACT  
TO MAMMARY GLAND HISTOPATHOLOGIC  
ON *Rattus norvegicus* STRAIN *Sprague dawley*  
INITIATION WITH DMBA  
(Dimetilbenz[a]antrasen)**

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**ABSTRACT**

The purpose of this study was to know the effect of *Eugenia polyantha* extract to histopathological change of mammary gland *Sprague dawley* rats which induce with 20 mg/kg body weight DMBA. Twenty female rats (*Rattus norvegicus* strain *Sprague dawley*) 45 days old with 60-70 g body weight were divided into five groups. The first group was only given DMBA and *corn oil*, as positive control. The second group was given CMC-Na and *corn oil*, as negative control. The third group was given 250 mg/kg body weight *Eugenia polyantha* extract and DMBA. The fourth and fifth group were given the same treatment as the third group, only using higher dose of *Eugenia polyantha* was 500 and 750 mg/kg body weight. The data were compared using *Kruskal-Wallis* and *Mann-Withney* test. This research showed that *Eugenia polyantha* extract changed the histopathological of rats mammary gland. There were decrease grade score from grade III to grade II and I. The effective dose of *Eugenia polyantha* extract to repair mammary gland cell was 500 mg/kg body weight.

**Keyword:** DMBA initiation , mammary gland histopathologic, *Eugenia polyantha* extract