

HAMBATAN EKSPRESI VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF)
OLEH EKSTRAK DAUN *Gynura procumbens* PADA PEMBULUH DARAH
MEMBRAN KORIOALANTOIS TELUR AYAM BEREMBRIO

ROSANTI KURNIA DEWI

Dr. Dady Soegianto Nazar, M.Sc.,drh.

KKC KK KH 106 11 Dew h

ABSTRACT

Angiogenesis is the new blood vessels formation normality and important on growth and development of individu. Angiogenesis also have contribution to carcinogenesis or uncontrolled and malignant cancer cell development, become pathologic condition like inflammatory and infection. The purpose of this research for knew the effectivities of *Gynura procumbens* extract on various dose for inhibition VEGF expression. This research was done to effort cancer progress inhibition. However, angiogenesis is part of carcinogenesis causes. The Chorio Allantoic Membrane (CAM) methods was used for this aim. Eggs at the age of nine days were divided into 6 groups. Group I were negative control of vehicle, group II were zero treatment: 60 ng bFGF which aplicated into paper dish. The next four groups were extract of *Gynura procumbens* that divided in four dose: 60, 75, 90 and 110 μg + bFGF 60 ng which applicated into paper dish. At the twelve days old, VEGF expression analysis was done which imunohystochemical method with anti VEGF's antibody. The result of this research showed that there was significant different ($p < 0.05$) on give of *Gynura procumbens* extract to VEGF expression. The most significant VEGF inhibition by *Gynura procumbens* extract with dose 110 μg . The conclusion on this study was *Gynura procumbens* extract effective to inhibit the VEGF expression on CAM embrio chick.

Key word: *Angiogenesis, VEGF, Gynura procumbens, CAM*