



Effect of Curcumin in Decreasing MDA Level in Preeclampsia-Induced Human Umbilical Vein Endothelial Cell (HUVEC)

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Abstract : Preeclampsia is multisystem disease occurred in 3-8% pregnancy, indicated by hypertension and proteinuria after 20 weeks of gestational age. In preeclamptic patients, pro-oxidant decrease enzymatically in cell, followed by increase in lipid peroxida due to free radicals *malondialdehyde* (MDA). Elevated free radicals in preeclampsia is associated with reduced cellular antioxidants. Curcumin has been known to posses many biological activities, such as antiinflammation and antioxidants. We evaluated effects of curcumin on MDA level in preeclampsia-induced HUVEC cell line. In the present study, we observed the effects of curcumin on MDA level in preeclampsia-induced HUVEC cell line. MDA level was measured with *Thiobarbituric Acid-reactive Substances* (TBARS). The result of the present study showed curcumin decreased MDA level in preeclampsia-induced cell.

Key words : curcumin, MDA, preeclampsia.

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