

REKAM JEJAK DIGITAL

**EFFECT OF SINGLE AND INTERMITTENT GLUCOSE EXPOSURE ON
HYALURONIC ACID, HEPARAN SULFATE, AND SYNDECAN
EXPRESSION IN HUVEC_s CELLS**

Manuscript: 14 Juni 2020



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Article Detail

Effects of single and intermittent glucose exposure on hyaluronic acid, heparan sulfate, and syndecan expression in HUVECs cells

Author: DEVI RINDI NOVIANI PRATIWI, NA KABA, II ARS WIDODO, KUSUMORNI HARDOYO

Abstract: Objectives: This study aims to investigate 1) the effect of incubation duration on changes in HUVECs cell glycosyls expression, 2) the impact of glucose dose on changes in HUVECs cell glycosyls expression, and 3) the comparison of single and intermittent glucose doses on changes in HUVECs cell glycosyls expression. Methods: After cell culture, the HUVECs were divided into three steps to study. On the first step, HUVECs were divided into control and duration of incubation of 12-hours, 24-hours, 48-hours and 72-hours. On the second step, HUVECs were classified according to the glucose concentration exposure (0 mM, 5 mM or 22 mM) for 72-hours of incubation. On the third step, HUVECs were divided into single and intermittent doses (for 72-hours of incubation). Results: The expression of hyaluronic acid, heparan sulfate, and syndecan was analyzed by laser scanning confocal microscope. Conclusions: In conditions without glucose exposure and physiological glucose exposure, glycosyls has a dynamic expression. High glucose exposure eliminates the dynamics of hyaluronic acid and syndecan expression. Single-dose exposure triggers a decrease in hyaluronic acid expression compared to intermittent exposure, and this is the opposite of heparan sulfate exposure.

Keyword: glycosyls, endothelial cells, single dose, intermittent dose.

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