

Analisis hubungan konsumsi glukosa, aktivitas spesifik dan pola isozim Lactate Dehydrogenase (LDH) pada hati tikus yang diinduksi hipoksia sistemik kronik = Analysis of the relationship of glucose consumption, specific activities and isoenzyme patterns of Lactate Dehydrogenase (LDH) in rat liver tissue during induced chronic systemic hypoxia

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Abstrak

ABSTRAK

Penelitian ini bertujuan untuk mempelajari konsumsi glukosa, aktivitas spesifik LDH dan pola isozim LDH pada kondisi hipoksia sistemik kronik. Penelitian dilakukan terhadap hati tikus yang diinduksi hipoksia sistemik kronik 1, 3, 7 dan 14 hari. Konsumsi glukosa diukur dengan metode enzimatis Trinder. Aktivitas spesifik LDH diukur dengan metode German Society of Clinical Chemistry (DGKC). Pola isozim LDH dianalisis dengan elektroforesis Titan Gel. Hasil penelitian menunjukkan bahwa konsumsi glukosa pada hipoksia sistemik kronik cenderung meningkat walaupun tidak berbeda dengan kontrol. Aktivitas spesifik LDH ditemukan paling tinggi pada hipoksia 3 hari sedangkan pola elektroforesis isozim LDH menunjukkan perbedaan pada hari ke-3 dan ke-7 hipoksia dengan kontrol. Tidak terdapat hubungan antara konsumsi glukosa dengan aktivitas spesifik LDH.

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ABSTRACT

The aim of this study was to observe glucose consumption, specific activity of LDH and electrophoretic LDH isoenzyme patterns on systemic chronic hypoxia. The study was carried out with liver tissue of rats exposed to systemic hypoxia for 3, 7 and 14 days. Glucose consumption was measured by Trinder method. The specific activity of LDH was performed using German Society of Clinical Chemistry (DGKC) method, while LDH isoenzyme patterns were analyzed using Titan Gel electrophoresis. Results indicated that glucose consumption showed tendencies to increase compared to control group, although the difference were not significant. The specific activity of LDH was highest on day 3 of the hypoxic group. Electrophoretic patterns of LDH isoenzyme showed differences on day 3 and day 7 of hypoxia with control. It is concluded that glucose consumption is not related to specific activity of LDH.