



## **Effect of Simvastatin drug on liver function parameters in men patients with hyperlipidemia in Al-Najaf province**

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**Abstract:** The current study was carried out in Al-Hakeem Hospital in Al-Najaf province. The study was undertaken to evaluate the effect of simvastatin drug that's used to treatment of hyperlipidemia on liver function criteria (ALT, AST, ALP, and bilirubin) in a number of hyperlipidemic males patients. Forty-eight male patients who are taking this drug to reduced cholesterol concentration in the plasma participated in the study, their ages ranged from (36-65) years divided into two groups (24/group) according to simvastatin doses 10 and 20 mg once daily. Also, eighteen healthy males contribute as control subjects, their ages ranged from (33-66) years.

Results of this study revealed, that simvastatin administration at different doses to hyperlipidaemic patients with different ages causes a significant elevation of ALT, AST, ALP and bilirubin levels which increased relatively with the doses of simvastatin and patients ages. On the other hand, the results obtained there was an effect of interaction between different doses of simvastatin and ages of hyperlipidaemic patients that treated with it on liver function tests particularly at the higher doses and ages, and this effect was represented by increased of these parameters. The study was suggested that the therapy with simvastatin may be causes lesions in liver tissues indicated by elevation of serum liver function criteria levels and this effect was dependent on simvastatin doses and patients' ages.

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