EFFECT OF THINNER INHALATION ON LIVER FUNCTION
AND HEMATOLOGICAL SYSTEM IN HUMAN

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ABSTRACT

Inhalation of thinner in glues, lacquer, shellack, paints or the thinner itself by industrial workers and teenagers has become common in recent years. The aim of the present study is to investigate the hepatotoxic and hematological effects of thinner in male sniffer (14-25 years old) who have been admitted to Thanyaruk Hospital, Pathumthani and live in the slum area in Bangkok. Thinner causes a significant reduction in plasma albumin concentration from 4.84±0.12 in control group to 3.90±0.15 and 4.08±0.09 g% in the patient from Thanyaruk Hospital and from slum area, respectively (P < 0.001). The change in SGOT and SGPT activities, total serum protein, globulin and total serum bilirubin are observed in some cases. Hematocrit value was found to be decreased by thinner from 44.16±0.53 to 40.71±0.82 and 41.30±0.74% (P < 0.001 and 0.01), respectively. The results suggest that thinner produced mild hepatotoxic effect to the sniffer.