Effect of Fluorouracil on Lipoprotein and Metabolic Enzymes in Murine Colon 26 Adenocarcinoma

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We examined the effect of fluorouracil (5-FU) on the activities of lipoprotein lipase and hepatic lipase, which are involved in lipid metabolism, in mice bearing colon 26 adenocarcinoma. When the inhibitory effect of 5-FU on tumor progression reached 50%, decreases in the activities of lipoprotein lipase and hepatic lipase in the tumor were observed. Enzyme activities in serum, liver, and adipose tissue approached control values of non-tumor-bearing mice. These results suggest that changes in the lipoprotein metabolism produced by the tumors were normalized by the antitumor effect of 5-FU.