Induction and inhibition of hepatic microsomal and mitochondrial enzymes by ethanol.

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Abstract : Sprague-Dawley rats were given for 15 to 24 days diets which w nutritionally adequate, deficient in protein and choline or low in fat. Pair-fed were given similar diets in which ethanol supplying 36% of energy replaced The addition of ethanol led to liver steatosis, increased microsomal protein

proliferation of smooth endoplasmic reticulum in the liver. There was also in
activity of the microsomal drug metabolising enzymes in the liver such as ar
pentobarbitol and benzpyrene hydroxylases; cytochrome P_{450} was increase
adequate diet with ethanol supplying 42 % of the energy which was given t
persons for 12 days produced similar reactions. When ethanol was added t
microsomes of male rats the activity of the drug metabolising enzymes was
this may explain why sober alcoholics have a resistance to barbiturates. Acu
ethanol intoxication in rats resulted in increased activity of liver □-amino laev
synthetase, which could be blocked by treatment with actinomycin or puron

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