Fatty acid oxidation catalized by cytochrome P450 and peroximes in kidney of rats in different metabolic states. A comparative study between liver and kidney Orcllana,

Valdcs Lghielemann,

Rodrigo,

The kidney response to exogenous inducers is known to he different to the liver, but its response to endogenous factors is poorly known. The <ioxidation of palmitoil CoA catalized by the peroxisomes and the lanrir arid w-liydroxylation catalized by cytochrorne P45U were studied in kidney of rats with chronic alcoholism, cholestasis (7 days of bile duct ligalion) and 48 hrs starvation. In all models used, the renal turnover rate of microsomai laurir acid metabolism was higher than the hepatic one and the renal peroxisomal .oxidation of falty arid was lower than the liver one. The starvation and the eihanol treatment increased the kidney microsomai and peroxisomal oxidation of fatty acids. In both models, the kidney responded in a similar way to the liver. Only in cholestasis the kidney responded in a different way to liver: While in the kidney the cholestasis did not modulate these activities, in the liver the cholestasis decreased the microsomai and peroxisomal. activ.ities.