## Kidney drug metabolizing activities in streptozotocin diabetic rats

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1. 1. Streptozotocin-induced diabetes produced significant changes on the drug metabolizing enzyme machinery of rat kidney microsomes. 2. 2. It reduced the cytochrome P-450 content by 30%, this effect being reversed by insulin therapy. 3. 3. Total androstenedione oxidative metabolism was increased 2.5-fold and insulin treatment partially antagonized this activation. 4. 4. Total testosterone hydroxylase activities were not modified by diabetes nor by insulin but the formation of 2? OH testosterone and 6? OH testosterone were distinct in diabetes or insulin treated diabetic rats. 5. 5. Only UDP-glucuronyltransferase activity for PNP was found in kidney microsomes. Diabetes determined a lower UDPGT substrate efficiency not reversed by insulin therapy. © 1995.