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**Effects of Administration of *N*-Nitrosodialkylamines
and *N*-Nitrodiethylamine on Hepatic
UDP-Glucuronosyltransferase
Activity in Wistar Rats***

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N-Nitrosodiethylamine (NEN) and *N*-nitrodiethylamine (NEA) are carcinogens and *in vitro* activators of hepatic UDP-glucuronosyltransferase (GT) toward 2-aminophenol (AP) and 4-nitrophenol (NP). These compounds were intraperitoneally administered to male Wistar rats for 7 days and GT activities were determined toward AP, NP, phenolphthalein (PH) and testosterone (TS). Administration of 30 or 20 mg/kg dose of NEN caused marked decrease of liver and body weights, and did not affect hepatic GT activities. Injection of 10 mg/kg dose of NEN did not affect liver and body weights, and increased the maximally activated GT activities toward AP and NP. In contrast, 30 mg/kg dose of NEA, did not affect either liver and body weights or GT activities. *N*-Nitrosodimethylamine (NMN), which is a carcinogen and a weak *in vitro* AP GT activator, was more toxic than NEN, and 3.6 mg/kg dose of NMN appears to induce GT toward NP and AP. Administration of 46.5 mg/kg *N*-nitrosodibutylamine (NBN), which is a carcinogen but not a GT activator, did not affect GT activities or liver and body weights.

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