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### Drugs

**DISPOSITION OF BARBITURATES** Pentobarbital, 30 mg/kg. and barbital, 225 mg/kg, were given intravenously to two groups of pregnant dogs. Barbiturate levels were measured in maternal blood, fetal blood, and amniotic fluid. Pentobarbital, a highly lipid-soluble drug, appeared in the fetal blood within five minutes of injection, and reached equilibrium in 15 minutes. Barbital, less lipid-soluble, also crossed the placenta and reached equilibrium between mother and fetus, although the time relationships were not determined. Both drugs entered the amniotic fluid at rapid rates; a greater fraction of the administered dose of barbital appeared in the amniotic fluid. This might be explained on the basis of less maternal tissue distribution of barbital, or its greater water solubility. (*Carrier, G., and others: Disposition of Barbiturates in Maternal Blood, Fetal Blood, and Amniotic Fluid, Amcr. J. Obstet. Gynec.* 105: 1069 (Dec.) 1969.)