## Cirrhosis in a Woodchuck (Marmota monax) Due to Vertical Transmission of Woodchuck Hepatitis Virus (WHV)

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Abstract: Chronic viral infection has been reported to cause a range of hepatic lesion, including hepatic fibrosis, cirrhosis and hepatocellular carcinoma (HCC) in a wide variety of animal species. Woodchucks (Marmota monax) chronically infected with woodchuck hepatitis virus (WHV) develop similar progressive hepatic inflammatory and neoplastic lesions that are remarkably similar to those associated with HBV infection in humans. Twenty two-month-old offspring from woodchucks (Marmota monax) experimentally infected with woodchuck hepatitis virus, were purchased. One randomly chosen animal was autopsied. The liver exhibits marked cirrhotic changes characteristic of the pre-transformation phase of WHV. We believe that this may represent a new suitable and cost-effective model for the disease processes associated with hepadnaviruses in a number of other species, most notably Hepatitis B virus infection in man.