Figure Legend: Figure 1 Kidney, Renal tubule - Hyperplasia, Amphophilic-vacuolar in a female F344/N rat from a chronic study. There is a small focus of hyperplastic tubule cells with amphophilic and vacuolated cytoplasm.

Comment: Amphophilic-vacuolar (A-V) hyperplasia is a small proliferative lesion associated with variable amphophilic cytoplasmic staining and intra- and/or extracellular vacuoles (Figure 1). As with atypical tubule hyperplasia, in A-V hyperplasia the proliferating cells are considered to be within the confines of a single renal tubule. If the cells proliferate beyond the confines of a single tubule, the lesion is considered a neoplasm (adenoma or carcinoma). A-V hyperplasia has been postulated to be a familial condition in rats, which may progress to tumors.

Recommendation: Amphophilic-vacuolar hyperplasia should be diagnosed as “Kidney, Renal tubule - Hyperplasia, Amphophilic-vacuolar” and given a severity grade.

References:


References:

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