



NTP Nonneoplastic Lesion Atlas

Prostate, Acinus – Cyst(s), Mucinous

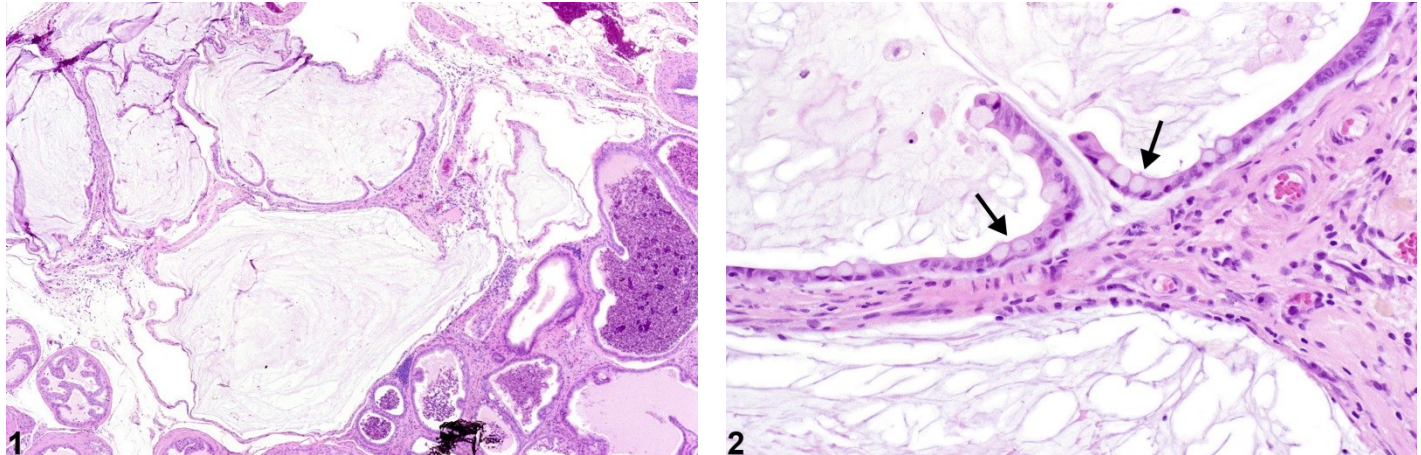


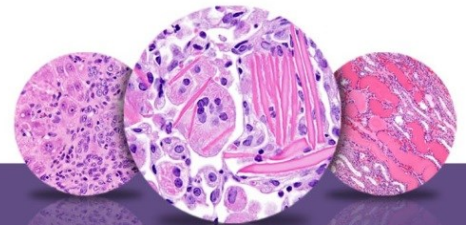
Figure Legend: **Figure 1** Prostate, Acinus - Cyst, Mucinous. Mucinous cyst in a male F344/N rat from a chronic study. **Figure 2** Prostate, Acinus - Cyst, Mucinous. Higher magnification of Figure 1. Mucinous cyst in a male F344/N rat from a chronic study. Goblet cells are present in the lining epithelium of the mucinous cysts (arrows).

Comment: Although mucinous cysts are a type of prostate duct dilation, the condition has recently been seen in studies and warrants a separate diagnosis. Mucinous cysts (Figure 1 and Figure 2) have been documented in a small number of treated F344 rats in emodin and anthraquinone chronic studies. Goblet cells are present in the lining epithelium of the mucinous cysts (Figure 2, arrows).

Recommendation: Prostatic mucinous cysts represent a distinct entity that presently requires a separate diagnosis to distinguish it from acinar dilation. Their occurrence should be graded, and bilateral involvement should be documented if present, with severity based on the more severely affected lobe. When possible, the affected prostate lobe should be identified.

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