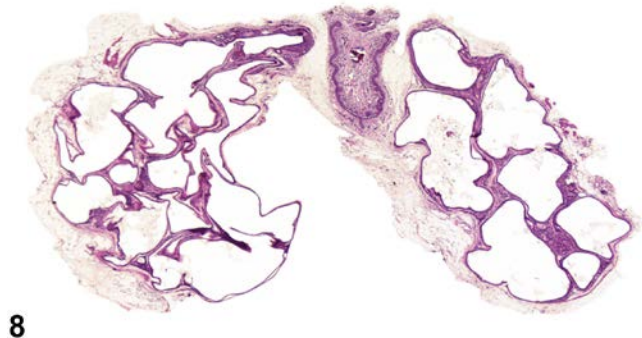
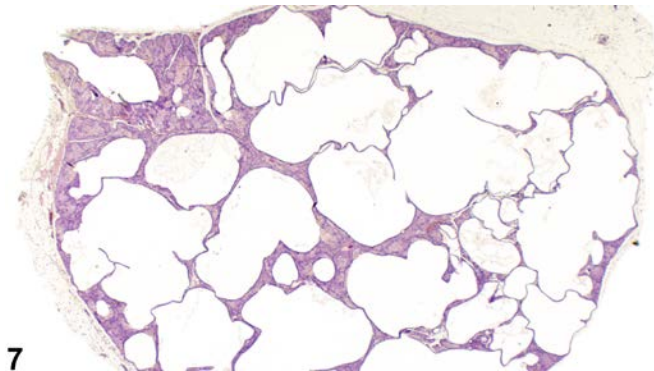
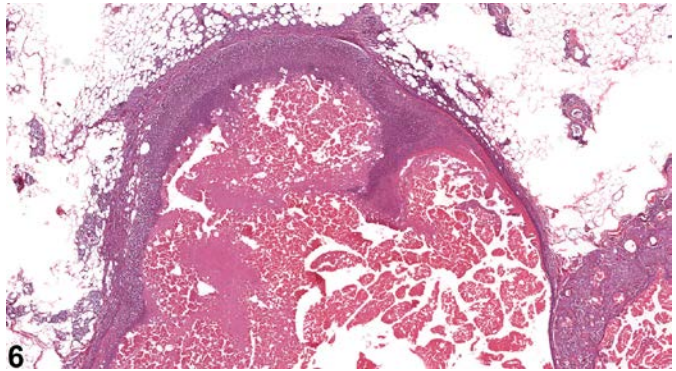
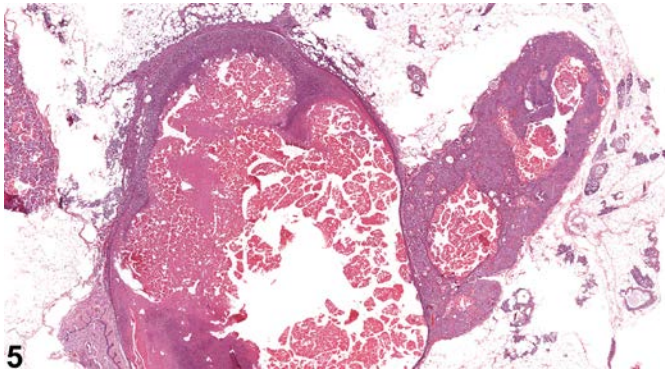
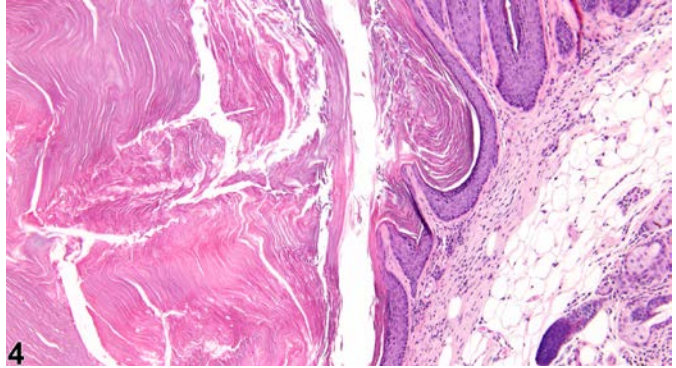
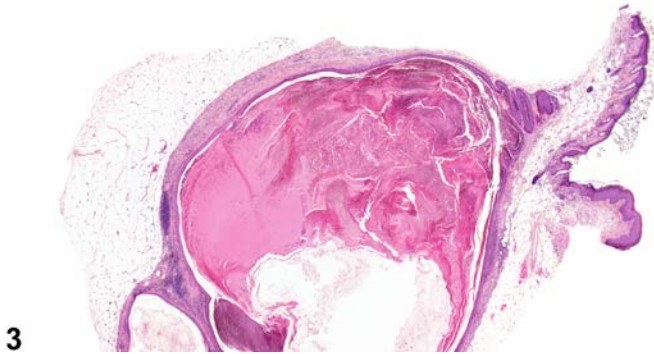
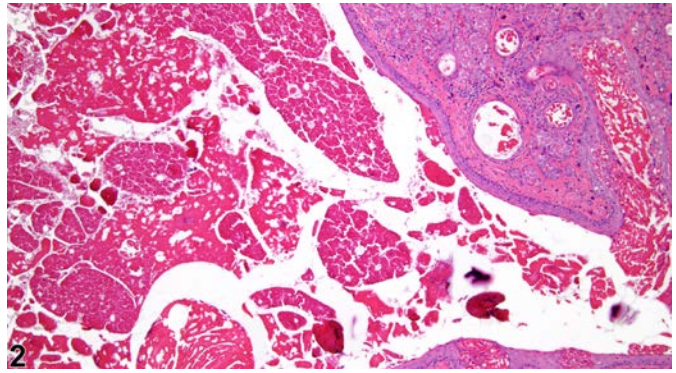
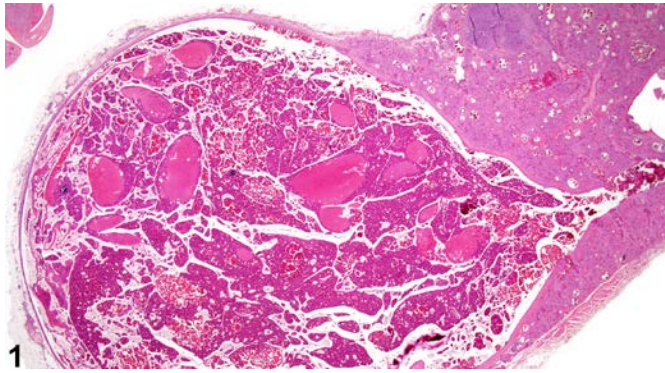
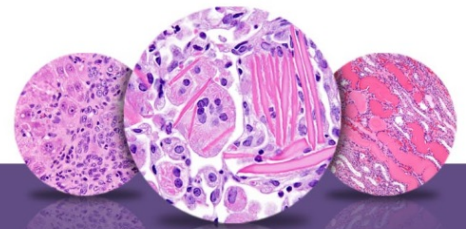


NTP Nonneoplastic Lesion Atlas

Clitoral Gland, Duct – Dilation





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Clitoral Gland, Duct – Dilation

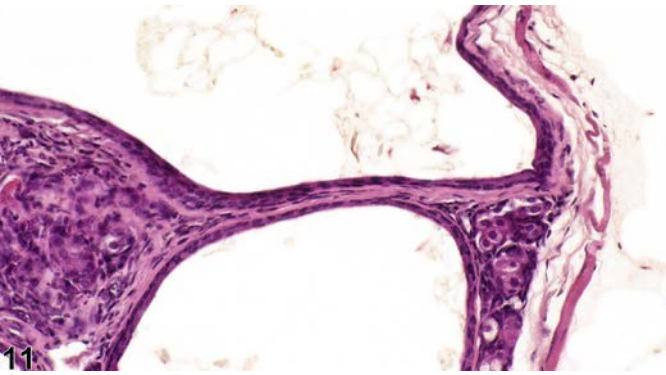
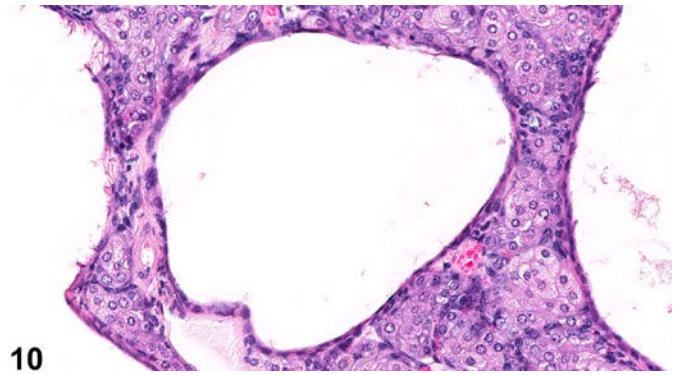
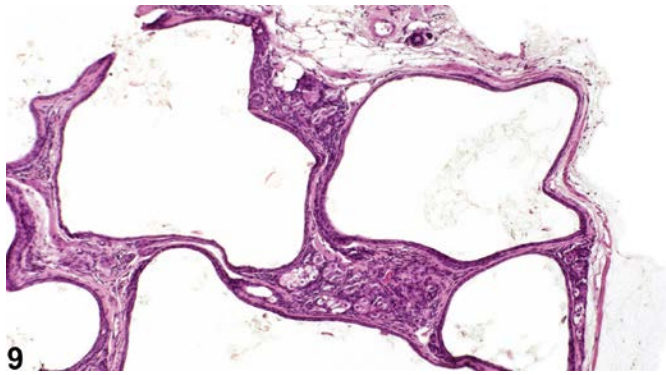
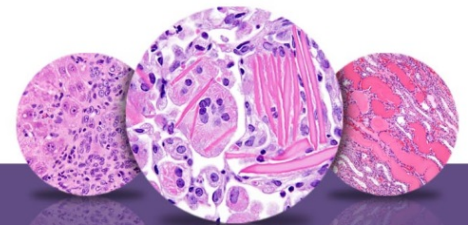


Figure Legend: **Figure 1** Clitoral gland, Duct - Dilation, Marked in a female Sprague-Dawley rat from a chronic study. The central duct is markedly dilated and filled with eosinophilic material. **Figure 2** Clitoral gland, Duct - Dilation, Marked in a female Sprague-Dawley rat from a chronic study (higher magnification of Figure 1). Squamous epithelium lines the dilated duct, and eosinophilic debris is evident in the lumen. **Figure 3** Clitoral gland, Duct - Dilation, Marked in a female B6C3F1/N mouse from a chronic study. The markedly dilated central duct is filled with eosinophilic material and occupies much of the clitoral gland. **Figure 4** Clitoral gland, Duct - Dilation, Marked in a female B6C3F1/N mouse from a chronic study (higher magnification of Figure 3). Squamous epithelium lines the dilated duct, and eosinophilic debris is evident centrally in the lumen. **Figure 5** Clitoral gland, Duct - Dilation, Marked in a female F344/N rat from a chronic study. The central duct is markedly dilated and contains amorphous eosinophilic material. **Figure 6** Clitoral gland, Duct - Dilation, Marked in a female F344/N rat from a chronic study (higher magnification of Figure 5). The dilated duct contains amorphous eosinophilic material and is lined by squamous epithelium. **Figure 7** Clitoral gland, Duct - Dilation, in a female B6C3F1/N mouse from a subchronic study. Dilated ducts comprise the majority of the clitoral gland.



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Clitoral Gland, Duct – Dilation

Figure 8 Clitoral gland, Duct - Dilation, Bilateral, in a female B6C3F1/N mouse from a subchronic study. Dilated ducts comprise the majority of the clitoral gland. **Figure 9** Clitoral gland, Duct - Dilation in a female B6C3F1/N mouse from a subchronic study (higher magnification of Figure 8). There are several dilated ducts and intervening acinar tissue. **Figure 10** Clitoral gland, Duct - Dilation in a female F344/N rat from a subchronic study. The dilated ducts are surrounded by acinar tissue. **Figure 11** Clitoral gland, Duct - Dilation in a female B6C3F1/N mouse from a subchronic study. The ducts have a flattened epithelial lining and contain scant luminal debris.

Comment: Clitoral gland duct dilation (Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, Figure 6, Figure 7, Figure 8, Figure 9, Figure 10, and Figure 11) is a common incidental finding in aging rodents. It has also been induced with administration of androgenic steroids. Dilation of the ducts of the clitoral glands is frequently accompanied by atrophy of the glandular tissue. The epithelial lining of smaller ducts may be cuboidal, flattened, or keratinized squamous epithelium. When this condition is severe, the dilated ducts may occupy the majority of the clitoral gland, with remnants of the acinar tissue evident between the dilated ducts, and the glands may be grossly enlarged due to duct dilation. Care must be taken in diagnosing this lesion in mice because mice typically have very cavernous ducts with little glandular tissue.

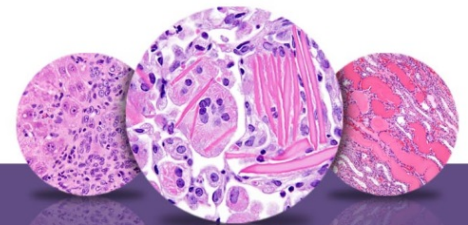
Recommendation: Clitoral gland - Duct, Dilation should always be diagnosed and given a severity grade when it is considered a primary change. Clitoral gland atrophy caused by duct dilation does not need to be diagnosed separately but can be described in the narrative.

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