

NTP Nonneoplastic Lesion Atlas

Vagina – Hypertrophy, Stromal

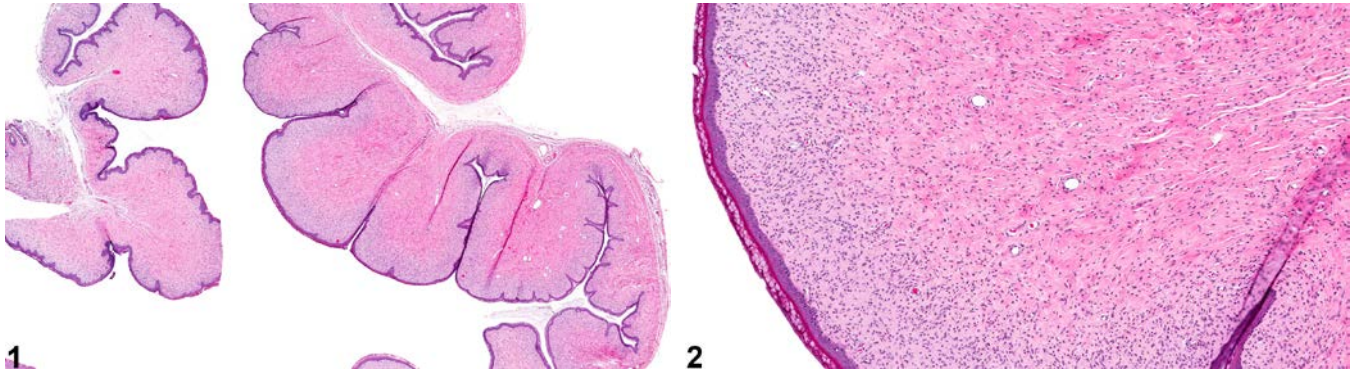


Figure Legend: **Figure 1** Vagina - Hypertrophy, Stromal in a female F344/N rat from a chronic study. Thickening of the wall of the vagina is due to stromal hypertrophy. **Figure 2** Vagina - Hypertrophy, Stromal in a female F344/N rat from a chronic study (higher magnification of Figure 1). There is proliferation of stromal cells of the vagina.

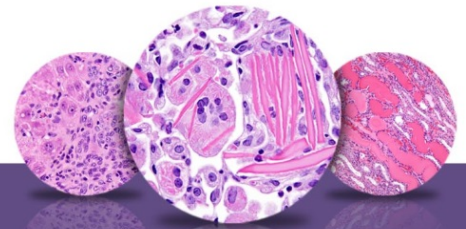
Comment: Stromal hypertrophy of the vagina is characterized by thickening of the fibromuscular stroma of the vaginal wall due to an increase in the size of cells, not the number of cells (Figure 1 and Figure 2). Stromal hypertrophy must be differentiated from neoplastic lesions, which are associated with an increased number of cells forming a discrete, focal, compressive or invasive mass. Other differential diagnoses include vaginal polyp, which is an exophytic lesion composed predominantly of a fibromuscular core covered by normal or slightly hyperkeratinized epithelium, and endometrial stromal polyp, another exophytic lesion that commonly projects through the cervix and appears in the vagina.

Recommendation: Vagina - Hypertrophy, Stromal should be diagnosed and graded whenever present.

Reference:

National Toxicology Program. 1999. NTP TR-481. Toxicology and Carcinogenesis Studies of Oleic Acid Diethanolamine Condensate (CAS No. 93-83-4) in F344/N Rats and B6C3F₁ Mice (Dermal Studies). NTP, Research Triangle Park, NC.

Abstract: <http://ntp.niehs.nih.gov/go/9764>



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