Uterus – Hyperplasia, Stromal

Figure Legend: Figure 1 Uterus - Hyperplasia, Stromal in a female F344/N rat from a chronic study. There is stromal hyperplasia of the endometrium with concomitant thickening of uterine wall. Figure 2 Uterus - Hyperplasia, Stromal in a female F344/N rat from a chronic study. There is an increase in the stromal component of the endometrium.

Comment: Stromal hyperplasia is characterized as a general increase in stromal tissue, smooth muscle, and connective tissue resulting in an increase in myometrial thickness (Figure 1 and Figure 2). This may result in gross enlargement of the uterus.

Recommendation: Uterus - Hyperplasia, Stromal should be diagnosed and assigned a grade whenever present.

References:

National Toxicology Program. 2014. NTP TR-584. Toxicology Studies of Indole-3-Carbinol (CAS No. 700-06-1) in F344/N Rats and B6C3F1 Mice and Toxicology and Carcinogenesis Studies of Indole-3-Carbinol in Harlan Sprague Dawley Rats and B6C3F1/N Mice (Gavage Studies). NTP, Research Triangle Park, NC. Abstract: http://ntp.niehs.nih.gov/go/41482
Uterus – Hyperplasia, Stromal

Authors:
Gabrielle Willson, BVMS, DipRCPath, FRCPath, MRCVS  
Senior Pathologist  
Experimental Pathology Laboratories, Inc.  
Research Triangle Park, NC

Karen Y. Cimon, DVM, MS  
Senior Pathologist  
Experimental Pathology Laboratories, Inc.  
Research Triangle Park, NC