**Figure Legend:** **Figure 1** Salivary gland - Amyloid in a female Swiss Webster mouse from a chronic study. The deposition of amyloid is affecting an entire lobe of the salivary gland (arrow). **Figure 2** Salivary gland - Amyloid in a female Swiss Webster mouse from a chronic study (higher magnification of Figure 1). The extracellular amyloid (arrow) is causing atrophy of the glandular acini.

**Comment:** Amyloid deposition in tissues (amyloidosis) is a systemic disease that is rare in B6C3F1, BALB/c, and C3H mice but common in CD-1, A, Swiss Webster, SJL, and B6 mice and can be a cause of death. The incidence can be increased in association with fighting among group-housed males and with ectoparasitism. Amyloid appears as an amorphous, eosinophilic, hyaline, extracellular substance that, with progressive accumulation, results in atrophy of adjacent cells and tissue. In the salivary gland, the amyloid can cause atrophy of the salivary gland acini (Figure 1 and Figure 2). In the esophagus and small intestine, the disease appears to begin as a deposition of amyloid in the submucosa. Amyloid deposits in the glomeruli of the kidney are usually the cause of death in animals that die with amyloidosis. Congo red stains amyloid orange to orange red and under polarized light imparts a light green, so-called apple green, fluorescence.

**Recommendation:** Whenever present, amyloid deposits in the salivary gland should be diagnosed as “amyloid” and graded based on the extent of the amyloid deposits. Associated atrophy of the tissues need not be diagnosed separately but can be described in the narrative.
References:
Abstract: http://www.crcnetbase.com/isbn/9781420014204


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