Tissue from a Bulldog

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Bulldog Bites the Dust
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History and Signalment

- 8-month old intact male bulldog
- Presented to RDVM for polyuria/polydypsia
- Condition declined over a few weeks
- Bloodwork showed elevated BUN, creatinine, and calcium
- Euthanasia was elected
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Morphologic Diagnoses

- Renal dysplasia, diffuse, severe, chronic
- Fibrous osteodystrophy, diffuse, severe, chronic, mandible
- Parathyroid hyperplasia, diffuse, severe
Primary lesions of renal dysplasia

- Asynchronous differentiation of nephrons
- Persistent mesenchyme
- Persistent metanephric ducts
- Atypical tubular epithelium
- Dysontogenic metaplasia
Secondary lesions

• Fibrosis
• Arteriolar proliferation
• Dystrophic mineralization
• Interstitial lymphoplasmacytic nephritis
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Questions?