Peri-laryngeal neoplasm with pulmonary metastasis

Case # 65

Slide # (12-0531)

Pablo Piñeyro
Miranda Vieson
Carley Allen
Geoffrey Saunders

Virginia-Maryland Regional College of Veterinary Medicine

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

An equal opportunity, affirmative action institution
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Signalment and case history

- 3-year-old, spayed female, mixed breed dog
- Slow growing neck mass of 3-month duration
- There were no clinical abnormalities associated with the mass
- The owner described occasional cough and slightly increased salivation
Clinical examination

Radiology:

• Thorax: normal cardiac silhouette, poorly defined density in the caudal/dorsal lung field

• Abdomen: normal

Biochemistry:

• Creatinine 2.6 mg/dL [r.i. 0.6 -2.0 mg/dL]
<table>
<thead>
<tr>
<th>Primary antibodies used for immunophenotyping</th>
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<tbody>
<tr>
<td>Vimentin</td>
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<tr>
<td>Chromogranin A</td>
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<tr>
<td>Neuron-specific enolase (NSE)</td>
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<tr>
<td>Calcitonin</td>
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<tr>
<td>Pan-cytokeratin</td>
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<tr>
<td>Synaptophysin</td>
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<td>CD79a</td>
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<td>CD3</td>
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</table>
Chromogranin A. 20x
Neuron-specific enolase (NSE). 20x
Vimentin. 20x
Calcitonin. 20x
Chromogranin A. 20x
Neuron-specific enolase (NSE). 20x
Vimentin. 20x
Calcitonin. 20x
Morphologic diagnosis

• Medullary thyroid carcinoma (MTC) with pulmonary metastasis
Comments

• Thyroid neoplasia and MTC prevalence
• Histological patterns and metastasis
• Species affected
• IHC pattern

• Cervical tumors in dogs
  • Lymphomas
  • Sarcoma
  • Chondroma
  • Chondrosarcoma
  • Rhabdomyosarcoma
Acknowledgements

Faculty

Resident mates

Histology and Necropsy Staff

Dr Martha Larson for the radiological images
References


Questions ??