

Procedural Information

Location: Charleston, SC, USA
Hospital: Medical University of
South Carolina
Physician: Alessandro Cianfoni, MD

Clinical Case Review 8

C1-C2 CT-guided biopsy

Case Description

Case history

58 year old male with a history of squamous cell carcinoma of the buccal mucosa. One year after radiation therapy, the CT follow-up revealed C2 basilar invagination and erosive process of C1-C2. Differential diagnosis included tumor recurrence, infection, and radiation necrosis.

Biopsy details

After analysis of “vascular roadmap” a 22G 15 cm spinal needle K-wire was inserted. The Bonopty[®] Biopsy set 14G coaxial cannula was placed over the K-wire. a 16G core biopsy and FNA was obtained.

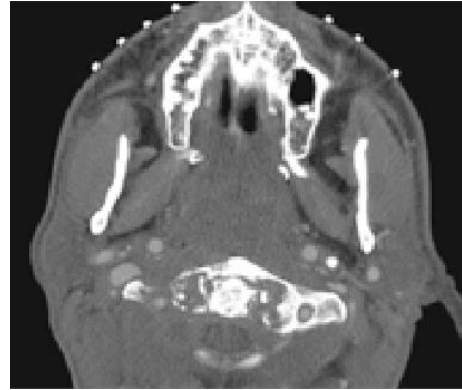
Analysis of the samples

Microbiological culture of the sample grew streptococcus agalactiae, indicating osteomyelitis.

Comments

The small caliber and the light-weight design of the Bonopty[®] biopsy cannula, together with the possibility of operating coaxially, was ideal in this delicate anatomical environment.

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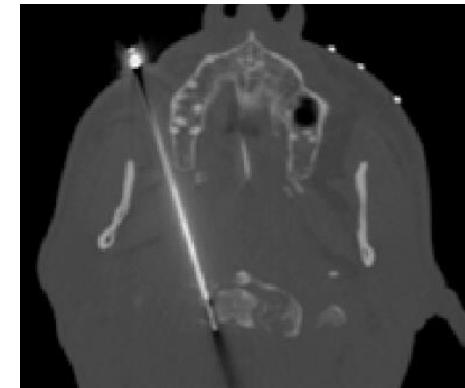
Vascular roadmap.



22G 15 cm spinal needle K-wire.



Penetration cannula placed over K-wire.



Final dx: streptococcus.

Case and image courtesy of Alessandro Cianfoni, M.D., Medical University of south Carolina, SC, USA