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CLINICAL PATHOLOGIC CONFERENCE CASE 3: PAINFUL, MOBILE MANDIBULAR MOLAR *RH Younis, R Gold, RF Reich, College of Dental Surgery, University of Maryland, Baltimore; Private Practice, Randolph, NJ; New York Presbyterian Hospital*

Clinical Presentation: A 73-year-old man presented to his general dentist with a chief complaint of 1-week history of a loose tooth and pain of the left mandible. The patient had a medical history significant for chronic obstructive pulmonary disease (COPD) and chronic cough, but was not on any medications except for naproxen on occasion for pain. The patient reportedly smoked half a pack of cigarettes a day for many years. Extraoral examination showed swelling of the left side of the face over the body of the mandible. Red crusty to papular cutaneous lesions were scattered on the skin of the forehead, ear, chin, and neck (Figure 1). A periapical radiograph showed a large restoration and evidence of destruction of the crown of the left second mandibular molar. Involvement of the furcation



Fig. 1. Extra-oral examination shows swelling of the left face overlying the body of the mandible extending to the angle and ascending ramus. Red crusty to papular cutaneous lesions spread over the skin of the forehead, ear, chin, and neck.

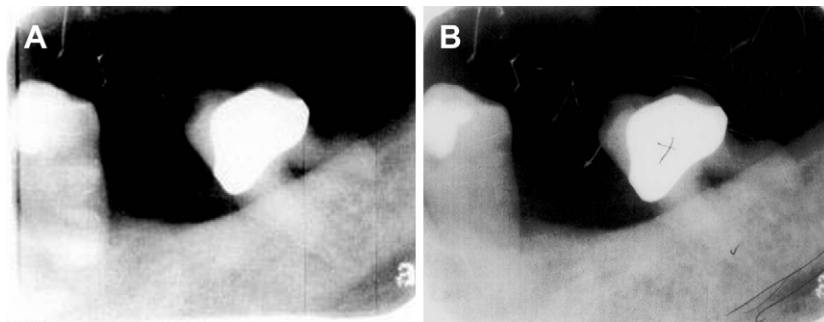


Fig. 2. **A**, Periapical radiograph of the left second mandibular molar shows a large restoration and evidence of involvement of the furcation area, significant resorption of the distal root and bone. Radio-opacity of the crestal bone extends to overshadow the mesial root. **B**, Enhanced contrast view shows mottled to patchy radiolucency throughout the tooth-bearing area that is accentuated at the distal area.



Fig. 3. One week after extraction. Non-healing extraction socket shows inflamed surrounding gingival tissue, necrotic and granulation-like tissue extruding from the socket.

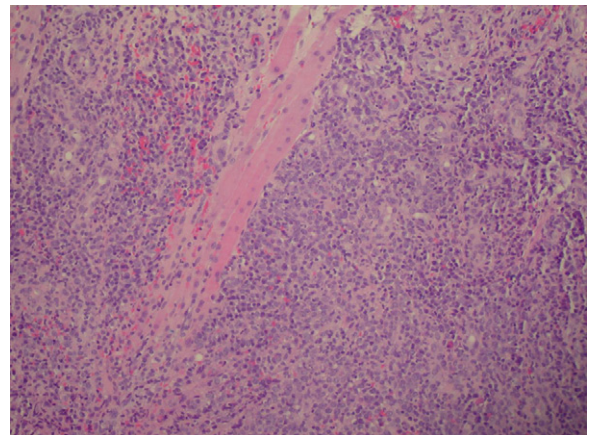


Fig. 5. Diffuse infiltration of muscle by atypical myeloid cells (hematoxylin and eosin; magnification $\times 100$).

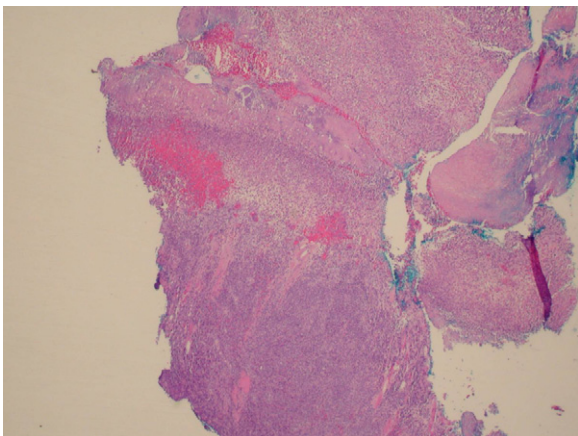


Fig. 4. Low-power view of diffuse round blue cell infiltrate with a large zone of necrosis (hematoxylin and eosin; magnification $\times 20$).

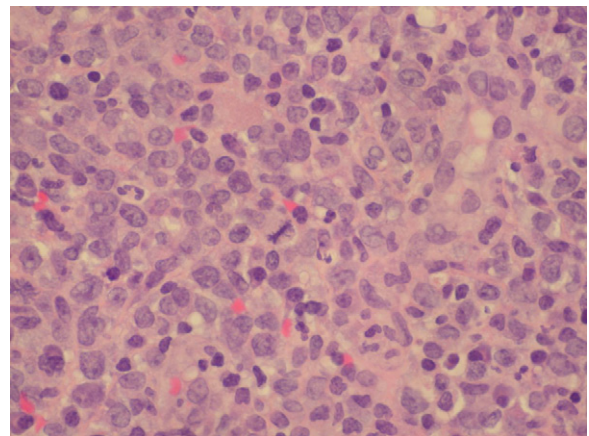


Fig. 6. Tumor cells exhibiting convoluted nuclei, prominent nucleoli, and atypical mitotic figures (hematoxylin and eosin; magnification $\times 400$).

area and significant resorption of the distal root was noted. A mottled-to-patchy radiolucency of the tooth-bearing area, with areas of radiopacity at the crestal bone and overshadowing the mesial root of the left second mandibular molar, was evident

(Figure 2). The patient was prescribed an antibiotic and referred to an oral surgeon. Tooth number 18 was extracted by the oral surgeon and the surrounding tissue was harvested and submitted for pathologic examination. At 1 week follow-up, the patient

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