Osteosarcomas of the jaw are very aggressive, malignant tumors, accounting for 5% to 13% of all musculoskeletal osteosarcomas. Osteosarcomas in long bones most commonly occur in young adults, whereas osteosarcomas of the jaw usually occur at a later age (mean age of 34 to 36 years). Osteosarcomas of the head and neck behave distinctly from those of long bones. The occurrence of cancer in pregnancy is an infrequent event, with a rate of approximately 0.07% to 0.1% among all pregnancies. The hormonal influence that acts on the initiation and development of malignancies during pregnancy remains highly controversial. However, there have been studies that have proven the pregnancy-related aggressiveness of osteosarcomas.

The influence of pregnancy on the natural process of bone and soft tissue sarcomas remains controversial. Remmelink M et al. in his in vitro studies showed that, osteosarcoma cell lines may be affected by sex steroids; however, this effect was not related to the gender origin of the cell line. In our case, the patient presented to our hospital two months after the development of a swelling. Delayed presentation may be attributed to the lack of signs and symptoms, the use of local remedies, religious attitudes, and the lack of interest on part of the patient. Osteosarcomas of the mandible can cause early compression of the underlying nerve, leading to paraesthesias and numbness in the lower lip. Our patient also had numbness and a tingling sensation in the lower lip. Early diagnosis and aggressive radical resection play a key role in achieving high survival rates.

In our case, wide local excision with segmental mandibulectomy was selected as a surgical procedure. The patient has consented for second-stage osseous reconstruction.

Comment [A1]: The definite article “the” is used to denote specificity. Here, it is used as a specific part of the body is being referred to.

Comment [A2]: The percentage symbol is generally used on either side of a range.

Comment [A3]: Compound adjectives that modify a single noun are typically hyphenated, except when the first word of the adjective is an adverb ending with “-ly.” Hyphens are used with these terms so that their meaning is understood clearly.

Comment [A4]: When numbers are used express a precisely measured quantity such as a time value or a measurement (e.g., number + unit), they should always be written as figures instead of spelling them out.