INTRODUCTION

Odontogenic myxoma is a benign but locally aggressive intrasosseous lesion of the jaws. It rarely occurs in any bone other than jaws and peripherally. It originates from the mesenchymal portion of the tooth germ. It is the third most common odontogenic tumor and accounts for approximately 3%–6% of all odontogenic tumors. It has variable radiological and clinical presentations which entails thorough and prudent evaluation of the lesion. We intend to report a case of a 38-year-old female patient who was referred to our private practice oral and maxillofacial surgery office with chief complaint of a persistent painful lesion and teeth mobility in the anterior region of the mandible which had undergone a faulty treatment plan in an outside clinic previously. On clinical examination, the lesion revealed a diffuse and slight enlargement extending from the left mandibular first premolar to the right mandibular canine anteroposteriorly and slightly buccolingually. Overlying skin on the mental region was normal and devoid of any ulcerations, erythema, and rise in temperature. Intraoral examination did not reveal any breach in the mucosa. On radiological evaluation, orthopantomography (OPG) and cone beam computed tomography (CBCT) revealed a well-defined, multiloculated expansile osteolytic lesion with few small septa spreading inside the lesion extending from the left mandibular first premolar to the right mandibular canine, crossing the midline. Histological evaluation confirmed the definitive diagnosis of odontogenic myxoma. The preferred surgical approach for this lesion was enucleation and curettage accompanied with peripheral ostectomy with concomitant burnishing of teeth roots. Myxomas are rare benign tumors of mesenchymal origin. They are locally invasive and occur in various tissues, including the cardiac, skeletal, cutaneous, subcutaneous tissue, aponeuroses, genitourinary tract, and skeletal muscles. It is the third most common odontogenic tumor of the jaw and most frequently occurs in the second to fifth decade of life. Women are more commonly affected than men and the mandible is the more commonly affected than maxilla. The radiographic appearances are variable as it can range from a unilocular to a multilocular radiolucency with multiple patterns of loculation, hence rendering a definitive diagnosis challenging. Treatment approaches for odontogenic myxoma remain surgical. However, it can vary from more conservative...
approaches like enucleation and curettage to radical resection with wide margins. This article reports an unorthodox presentation of odontogenic myxoma on account of its location within the jaw, its invasive trait, and alternating radiological features rendering it a diagnostic challenge.

The odontogenic myxoma is a painless, locally invasive but benign odontogenic neoplasm of the jaws which most frequently occurs in the second to fifth decade of life and the average age of occurrence ranges from 23 to 30 years.\(^1,2\) It is the third most common odontogenic tumor after odontoma and ameloblastoma, respectively, and accounts for 3%–6% of all odontogenic neoplasms.\(^3\) There is a slight predilection for occurrence in the mandible and furthermore women are more commonly affected than men.\(^1,4,5\)

Diagnosis of odontogenic myxoma is primarily based on histopathological and/or clinical and radiological findings. From a clinical point of view, odontogenic myxoma is characterized by presenting insidious and asymptomatic slow growth and expansion of the jaw bones, but with locally aggressive behavior leading to occasional cortical bone destruction, soft tissue infiltration, and dental disorders including root resorption and displacement.\(^6-11\) Radiographically, this lesion always presents radiolucent with multiple variations. It may present as a well-circumscribed or diffuse and unilocular or multilocular lesion. Multilocular patterns include ‘soap-bubble’, ‘honeycomb’, and ‘tennis racket’ appearances.\(^2\) A ‘sun-ray’ or ‘sun-burst’ appearance has also been reported that may suggest a destructive, expanding behavior of this lesion.\(^1\) Histologically, the odontogenic myxoma is composed of haphazardly arranged stellate, spindle-shaped, and round cells in an abundant, loose, fibrillary myxoid/mucoid stroma which contains only a few wisps of collagen fibril.\(^12\)

Despite its benign nature, high recurrence rates have been reported, specifically after removal by curettage alone.\(^13\) Surgical treatment through bone resection is proposed to be the treatment of choice for this lesion.\(^14\)

Here, we discuss a rare case of an odontogenic myxoma in an uncommon location which yielded a diagnostic challenge. Furthermore, we review the available literature, discuss differential diagnosis, and available modalities for treatment of this lesion.

2 | CASE PRESENTATION

2.1 | History and clinical examination

A 38-year-old female reported to an outside private dental practice office with chief complaint of pain and discomfort on her left anterior mandible region 1 year prior to presentation to our office. Initial orthopantomography (OPG) was obtained and a radiolucent lesion measuring 15 × 10 mm surrounding the roots of mandibular left lateral incisor and left canine was noticed (Figure 1). The lesion was hurriedly and erroneously diagnosed as a radicular cyst without conducting any further pulp vitality tests and the two above-mentioned teeth were endodontically treated. A few months subsequent to the initial root canal treatment, the pain did not subside and no change in the size of the radiolucent lesion was obtained; therefore, the left mandibular central incisor was endodontically mistreated additionally without yet again conducting any further pulp vitality tests. These sequelae of mistreatments and persistent pain and discomfort following a third root canal treatment forced the patient to be referred to our oral and maxillofacial surgery private office. There were no significant issues in the patient’s medical history upon presentation.

Clinical examination revealed a mild, diffuse enlargement extending from the left mandibular first premolar to the right mandibular canine anteroposteriorly and slightly buccolingually. Overlying skin on the mental region was normal and devoid of any ulcerations, erythema, and rise in temperature. Intraoral examination did not reveal any breach in the mucosa and the integrity of it remained intact. On palpation of the oral mucosa, the enlargement was bony hard on lingual cortex but with a doughy consistency on buccal plate suggesting destruction of the buccal cortical plate, diffuse, and non-tender. Moderate mobility of five teeth including mandibular right lateral incisor to left canine was evident on palpation.

2.2 | Investigation and differential diagnosis

Orthopantomography (OPG) and cone beam computed tomography (CBCT) were promptly ordered. They depicted
a well-defined, multiloculated expansile osteolytic lesion
with few small septa spreading inside the lesion. Expansion
of the buccal cortex with areas of cortical destruction and
root resorption of mandibular left central incisor, right cen-
tral, and lateral incisors were also noticed. The lesion mea-
ured 31.2 × 21.0 mm extending from the left mandibular
first premolar to the right mandibular canine (Figures 2 and
3). Radiographic preliminary differential diagnosis included
central giant-cell granuloma (CGCG), odontogenic kerato-
cyst (OKC), ameloblastoma, odontogenic myxoma, and
fibroameloblastoma.

An incisional biopsy was then conducted and the his-
topathological specimen showed an irregular piece of soft
tan-pink tissue with fragile consistency. Cut sections demon-
strated homogenous myxoid pink surface containing hem-
orrhagic foci. The microscopic analysis revealed striated
muscle fibers, some reactive new and pre-existing bone tra-
becula and presence of a neo-formed tissue composed of hap-
azardly arranged stellate and spindle cells with no atypia in
an abundant loose myxoid stroma containing few collagen
fibrils which was consistent with histopathological features
of odontogenic myxoma and therefore a definitive diagnosis
was made (Figure 4).

2.3 | Surgical intervention

Given the patient's age, noticeable size of the lesion, its inva-
sive and recurrent characteristics, accompanied with buccal
cortex expansion and destruction, enucleation and curettage,
and peripheral ostectomy accompanied with concomitant
burnishing of teeth roots was planned. After obtaining a writ-
ten informed consent form from the patient and informing her
regarding the poor prognosis of the remaining affected teeth,
the surgery was performed under local anesthesia. Surgical
procedure incorporated bilateral mental nerve anesthesia, fol-
lowed by a full-thickness periosteal flap elevation with great
vigilance in exposing and preserving bilateral mental nerves
and subsequent excision of the lesion mass with curette and
periosteal elevator in a piece by piece manner with extreme
cautions to preserve teeth roots (Figures 5 and 6). Teeth roots
were then cautiously burnished. Afterward, peripheral oste-
tomy with a wide margin of 2–8 mm was conducted and the
flap was reapproximated and sutured (Figures 7 and 8).

The excised specimen measuring at 2.5 × 2 × 1.5 cm ac-
companied with six irregular fragments of the same tissue
and small bone particles aggregating to 2 × 1 × 1 cm was
then placed in formalin and sent to pathology laboratory
which further confirmed the definitive diagnosis of odonto-
genic myxoma.

The patient was informed of the recurrence tendency of
the lesion and was advised for annual follow-ups for at least
5 years.

2.4 | Follow-up

The patient's first- and second-year follow-up clinical and ra-
diological examination revealed no recurrence of the lesion
(Figures 9 and 10).

3 | DISCUSSION AND A REVIEW
OF LITERATURE

In a newly devised classification system by Bajpai et al.\textsuperscript{15}
based on the predominance of the areas of myxoid degenera-
tion in histopathology of the tumors of oral cavity including
adipose, neural, fibroblastic, chondroblastic, muscle, odon-
togenic and miscellaneous tumors, odontogenic myxomas
fall in the category of odontogenic tumors. Myxomas are rare
benign tumors of mesenchymal origin. They are locally inva-
sive and occur in various tissues, including cardiac, skeletal,
cutaneous, and subcutaneous tissue, aponeuroses, genitouri-
nary tract, and skeletal muscles.\textsuperscript{16} Odontogenic myxoma was
initially named as ‘myxofibroma’ by Rudolf Virchow in 1863
due to its histologic similarity to the mucinous substance pre-
sent in the umbilical cord.\textsuperscript{17} Later in 1947, it was renamed to
FIGURE 3 Cone beam computed tomography (CBCT) of the anterior mandible revealing the extent of the lesion. Notice the evident buccal cortex destruction.
‘odontogenic myxoma’ by Thomas and Goldman. World Health Organization (WHO) defines this tumor as ‘a locally invasive neoplasm that consists of angular and rounded cells in mucoid background’. 

It is the third most common odontogenic tumor after odontoma and ameloblastoma, respectively, and accounts for 3% to 6% of all odontogenic neoplasms. Ameloblastoma seems to be more common in Asian and African nations, whereas in North America, the most frequently diagnosed odontogenic tumor was odontome. It most frequently occurs in the second to fifth decade of life and the average age of occurrence ranges from 23 to 30 years. Women are more commonly affected than men with a ratio of 1.5:1. The mandible is the more commonly affected than maxilla, with the posterior body, ramus, and angle being the most common sites, respectively. Regardless of the jaw, odontogenic myxoma is usually found in relation to a tooth, typically a premolar or molar. However, there have been a few new case reports of a peripheral odontogenic myxoma occurring solely on the soft tissue with no effect on the underlying bone.

In an updated analysis of 1692 cases by Chrcanovic et al. approximately 75% of the lesions showed signs of cortical bone perforation, 62.9% of the lesions had a radiological multilocular appearance, and 34.7% of the lesions showed the presence of angular seца. Nearly 20% of the lesions presented root resorption of adjacent teeth and 53.8% of the cases showed...
tooth displacement and/or uneruption due to lesion's growth. Only 6.8% of these lesions crossed the midline of the jaws which makes our case truly a rare entity.

Clinically, odontogenic myxoma is a painless, slow-growing, benign but locally aggressive lesion that displaces and/or resorbs its adjacent structures including teeth roots and cortical bone. This lesion can advance into paranasal sinuses and zygomatic process of the maxilla as well. Unorthodox cases of rapidly expanding odontogenic myxoma of the jaw have been reported. In many cases, however, these lesions are coincidentally diagnosed during a routine dental checkup. Some odontogenic myxomas are found to be associated with unerupted teeth. Ulceration of the overlying mucosa is rarely seen and only occurs in case of the lesion being in the pathway of dental occlusion. Nevertheless, rapid growth and invasion of the soft tissue may occur as well. Our case presented with consistent pain which was in contrast of typical clinical findings of odontogenic myxoma reported in the literature.

Radiographically, odontogenic myxoma's appearance can vary from uniloculated to multiloculated and from completely radiolucent to mixed radiolucent-radiopaque. Furthermore, the margins of this lesion have been variably described as corticated, non-corticated, poorly defined, and diffuse. The multilocular appearance usually presents as ‘soap-bubble’, ‘honeycomb’, ‘tennis racket’, ‘spiderweb’, or ‘wispy’. However, recently patterns resembling a ‘sun-ray’ or ‘sun-burst’ appearance have also been reported that may suggest a more destructive, expanding behavior of this lesion. The lesion usually displaces and/or resorbs adjacent teeth roots. In some cases, this lesion is found encapsulating an unerupted tooth. Our case initially presented with uniloculated and small radiolucency which further developed to a multiloculated lesion with small septa extending into the lesion and giving it a tennis racket appearance which is consistent with typical findings of odontogenic myxoma.

Differential diagnosis based on radiographic findings differs depending on the loculation status of the lesion. For uniloculated lesions, differential diagnosis includes but not limited to periapical cyst or granuloma, lateral periodontal cyst, simple bone cyst, or unicystic ameloblastoma. For multiloculated lesions differential diagnosis include central giant-cell granuloma (CGCG), cherubism, multicystic ameloblastoma, intraosseous hemangioma, aneurysmal bone cyst, odontogenic keratocyst (OKC), metastatic tumor, and osteosarcoma. Histologically, the bulk of odontogenic myxoma is made up of loosely arranged, spindle-shaped and stellate cells, many of which have long fibrillar processes that tend to intermesh with apparently inactive odontogenic epithelium scattered through the myxoid (mucous) ground substance. The loose stroma tissue is mainly made up of hyaluronic acid and chondroitin sulfate as in normal tissues, but excessive in amounts. The present cells in this stroma do not show evidence of significant neoplastic activity including pleomorphism, prominent nucleoli, or mitotic figures. Growth pattern of this lesion is differentiated from other lesions by the fact that it gradually grows by secretion of ground substance rather than cellular proliferation. The gelatinous consistency of myxoma permits the lesion to permeate through bony trabeculation leaving no clear margin, therefore, making its complete removal substantially difficult. Findings in the histological analysis of our case were consistent with the above-mentioned characteristics; therefore, a definitive diagnosis of odontogenic myxoma was obtained.

Treatment approaches for odontogenic myxoma remain surgical. However, it can vary from more conservative approaches like enucleation and curettage to radical resection with wide margins of 1.0–1.5 cm. Although medical
FIGURE 9  One-year postoperative follow-up cone beam computed tomography (CBCT) scan revealing no traces of recurrence
management of odontogenic myxoma including chemotherapy has been utilized in few recurrence cases, its use is not advocated.\(^5,38\) Furthermore, due to the radio-resistant trait of odontogenic myxoma, radiotherapy also has no role in management of this lesion.\(^1,25,30\) Boffano et al.\(^39\) have advocated resection of myxomas larger than 3 centimeters, and enucleation and curettage of lesions smaller than that. The idea behind utilization of these rather contrasting approaches originates from the growth and permeation characteristics of odontogenic myxoma, depriving this lesion from a well-defined border. Furthermore, radical resection not only leaves the patient with significant cosmetic and functional defects, but also it is not always successful in preventing recurrence of the lesion.\(^5,40\) Current literature suggests that aggressive management of this lesion may not be necessary, especially as first-line approach.\(^5\) Allphin et al.\(^41\) suggested a more conservative approach as the first-line treatment of odontogenic myxoma, followed by respective surgery if deemed necessary. However, when radical surgery is performed, delayed reconstruction must be considered due to odontogenic myxoma’s high tendency to recur.\(^6\) Utilization of liquid nitrogen cryotherapy has also been recently reported in adjunct to surgical modalities.\(^22\) In our case, enucleation and curettage accompanied with peripheral ostectomy and concomitant burnishing of teeth roots were utilized.

Odontogenic myxomas are notorious for their very high recurrence rate, consisting up to 25% following enucleation and curettage alone.\(^42,43\) Therefore, follow-up is recommended throughout the patient’s life.\(^5,44\) However, at minimum, a follow-up period of 5 years is highly recommended, since this the time period where majority of recurrences occur.\(^6\) Our patient was recalled to the clinic for the first- and second-year follow-ups, both of which revealed no signs of recurrence.

4 | CONCLUSION

Due to its aggressive nature, odontogenic myxoma, though benign, requires extreme levels of awareness throughout the diagnosis, treatment, and follow-up phases. This benign odontogenic tumor can present with a wide variety of clinical and radiological depictions. As seen in our case, it presented with a unilocular radiolucency encompassing teeth roots, highly mimicking the clinical behavior of a radicular cyst. The alternating multiloculartiy and unilocularity characteristics of this lesion compels the clinician to consider numerous differential diagnosis which can only be fortified by a thorough histological analysis in order to reach a definitive diagnosis which was unfortunately lacking on the side of our patient’s primary dentist, leading to unnecessary mistreatments of three endodontically sound teeth and further expansion of the lesion, leaving a larger residual defect. This report intends to compare classic presentations of odontogenic myxoma in contrast to our case in terms of unorthodox region, the fact that it crossed the midline of the jaw, and altered radiographic appearance, evolving from unilocular to multilocular pattern which occurs very rarely. We also suggest a detailed and comprehensive evaluation of lesions and

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**FIGURE 10** Three-dimensional cone beam computed tomography (CBCT) scan on 1-year follow-up revealing no traces of recurrence
strongly advocate against premature treatments before reaching a definitive diagnosis. As in our case, if proper management had been done by the patient's primary dentist, three teeth could have been salvaged and not mistakenly treated and further destruction of cortical bone could have been prevented.

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CONFLICT OF INTEREST
None declared.

AUTHOR CONTRIBUTIONS
MS conducted the surgery. RD was responsible for data collection and writing of the manuscript. RD and MS were responsible for editing and revising of the manuscript. All authors discussed the results and contributed to the final manuscript.

ETHICAL APPROVAL
Ethical approval by Ethics Committee of Tehran Medical Sciences, Faculty of Dentistry, Islamic Azad University.

DECLARATION OF PATIENT CONSENT
The patient consents to their clinical findings, photographs, radiographs, and results to be reported in this article. The patient understands that their name or initials will not be mentioned anywhere in this report and due efforts will be made to completely conceal their identity, however, a total anonymity cannot be guaranteed.

DATA AVAILABILITY STATEMENT
The data that support the findings of this study are available from the corresponding author upon reasonable request.

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