A 34-year-old female patient presented with a mass on the left malar area that had been palpable for 1 year. The mass had enlarged slowly. The patient complained of discomfort and had aesthetic concerns because of the increased size of the mass. She had no specific medical history. However, the patient had a history of trauma on the ipsilateral oral cavity at puberty. A physical examination revealed that there was a movable soft mass with a diameter of 2 cm and normal-appearing skin. There was no discoloration, erythema, and inflammation. On computed tomography (CT), a slightly diffuse enhancing low-density mass was seen on the subcutaneous layer adjacent to the zygomaticus muscle (Fig. 1). Removal of the mass was performed under general anesthesia by using an intraoral approach and a pull-through technique with a gingivobuccal incision. The mass was not easily separated from the surrounding tissues and zygomaticus muscles. The margin of the mass was intermingled with the surrounding fibrous tissue (Fig. 2). The lesion was completely excised with no remarkable occurrences (Fig. 3). Grossly, the mass was round, with a diameter of 1.3 cm. The gross findings of the mass included a well-circumscribed, oval-to-round mass with a thin, fibrous pseudo-capsule. The cut surface showed a whorled, white-gray, firm, and fibrous consistency with a homogenous appearance. A histological examination revealed a well-circumscribed mass with no capsulation (Fig. 4). The tumor primarily had a myxoid appearance and was hyper-cellular with bland spindle cells; it had minimal cytologic atypia, generally low mitotic activity and no necrosis, but there were abrupt transitions to collagen rosettes, which was a heavily collagenized area with sparse cellularity. The vasculature in the tumor showed an arcade appearance with hyalinization (Fig. 5). An immunohistochemical study showed that the tumor cells were focally positive for smooth muscle actin but negative for S-100, desmin, and CD34. The

### Low-Grade Fibromyxoid Sarcoma of the Malar Area

Jun Ho Lee1, Hwan Jun Choi1, Hae Yoen Jung2

1 Departments of 1Plastic and Reconstructive Surgery and 2Pathology, Soonchunhyang University College of Medicine, Cheonan, Korea

Correspondence: Hwan Jun Choi
Department of Plastic and Reconstructive Surgery, Soonchunhyang University College of Medicine, 31 Soonchunhyang 6gil, Dongnam-gu, Cheonan 31151, Korea
Tel: +82-41-570-2195, Fax: +82-41-574-6133, E-mail: medi619@hanmail.net

This work was supported by the Soonchunhyang University Research Fund.

No potential conflict of interest relevant to this article was reported.

Received: 8 Apr 2015 • Revised: 11 Jun 2015 • Accepted: 19 Jun 2015
pISSN: 2234-6163 • eISSN: 2234-6171
http://dx.doi.org/10.5999/aps.2016.43.1.110
Arch Plast Surg 2016;43:110-112

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**Fig. 1.** A computed tomography image of the mass: a slightly diffuse enhancing low-density mass on the left malar area on the coronal view.
A diagnosis of low-grade fibromyxoid sarcoma (LGFMS) was made on the basis of the collected results. There was no evidence of recurrence at the 8-month follow-up period.

Malignant soft-tissue tumors rarely occur in the head and neck, and surgeons are challenged in determining the optimal method for tumor excision, particularly in the case of tumors located in the face [1]. Moreover, an accurate diagnosis of soft-tissue tumors is often complicated even for well-trained pathologists because of the histologic characteristics of these tumors. LGFMS is a rare type of sarcoma, and the determination of the disease course based on oncologic and histologic features remains controversial [1]. LGFMS is a rare tumor type first described by Evans in 1987 [1]. In the original description, LGFMS was histologically characterized as a bland-appearing soft-tissue neoplasm, associated with aggressive behavior and a high degree of local recurrence or distant metastasis [2]. LGFMS is a rare neoplasm that commonly occurs in young to middle-aged adults. Males are more commonly affected than females [3]. The most frequently reported location of LGFMS is the lower extremity, particularly the thigh, followed by the trunk and groin, upper extremities, and buttocks [1,2,4]. The head and neck region is a very rare location for this type of sarcoma. LGFMS is frequently surrounded by skeletal muscle and typically presents as a painless deep soft-tissue mass [3]. CT and magnetic resonance imaging (MRI) are widely used, while ultrasonography (USG) is occasionally used for diagnosing the disease. Immunohistochemically, most cells of this sarcoma are strongly positive for vimentin but are generally negative for α-smooth muscle actin, desmin, S-100 protein, cytokeratin, CD34, and CD56 [1]. The microscopic appearance of LGFMS exhibits bland fibroblastic spindle cells with a whorled or linear arrangement in the fibrous and myxoid areas [3]. The diagnosis of LGFMS is still difficult because of its characteristic bland-looking histologic features that can be confused with other benign or low-grade fibromyxoid lesions [3]. Although LGFMS shows a benign histologic appearance, local recurrence and late metastases have frequently been reported. Evans
noted that some recurrent and metastatic tumors
contain zones of increased cellularity and mitotic
activity [2]. In this type of tumor, adequate surgical
excision of the tumor is necessary because of the
frequent recurrence of LGFMS [1]. The young
patient age and superficial location likely contribute
to a benign clinical diagnosis in many cases of
superficial LGFMS. This clinical impression could
potentially result in a delayed biopsy or excision
and potentially worsen the patient outcome. The
recommended treatment for LGFMS includes radical
surgery, wide en bloc surgical resection, complete
resection, compartmental excision, and local excision.
Adjuvant radiotherapy or chemotherapy has not been
recommended in previous reports. As these tumors
are prone to metastasis after a long interval,
sometimes after as many as 45 years, a thorough
clinical follow-up is recommended. However, no
study to date has recommended any protocol for the
follow-up [5]. Thus, we described a rare case of facial
LGFMS in a woman. She had no evidence of local
recurrence or metastases at the postoperative
8-month follow-up.

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Squamous Cell Carcinoma
Arising from an Epidermal
Inclusion Cyst

Jin-Won Lee, Jin-Yong Shin, Si-Gyun Roh,
Nae-Ho Lee, Kyung-Moo Yang

Department of Plastic and Reconstructive Surgery, Chonbuk
National University Medical School, Jeonju, Korea

Correspondence: Si-Gyun Roh
Department of Plastic and Reconstructive Surgery, Chonbuk National
University Medical School, 20 Geonji-ro Deokjin-gu, Jeonju 54907, Korea
Tel: +82-63-250-1860, Fax: +82-63-250-1866, E-mail: psroh@jbnu.ac.kr

No potential conflict of interest relevant to this article was reported.

Received: 27 Mar 2015 • Revised: 31 Jul 2015 • Accepted: 31 Jul 2015

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Epidermal inclusion cysts are commonly
encountered benign cystic lesions that can occur
anywhere in the body. However, malignant changes
are rare, and only a few cases of malignant change
have previously been reported [1,2].

Anton-Badiola et al. [2], based on a total of 13
reported cases, found that the mean age at
presentation of squamous cell carcinoma arising from
an epidermal inclusion cyst was 43.2 years. They also
observed that it occurred more frequently in men,
that the head and neck area was the most commonly

Fig. 1.
A 62-year-old male who presented with a 2 × 2-cm soft
bulging mass on the left cheek.