retractors.

3) Dry off the tip cleaners and the blade of the retractors completely for a firm bond between the two surfaces.

4) Remove the release line and put the tip cleaners on the retractors.

Tip cleaners could be applied to any retractors (Fig. 3). These retractors can be used for the dissection of the submuscular space. It is necessary to retract the muscle with care because the muscle fiber could be injured by the rough surface of the tip cleaner. When the retractors need to be adjusted, the blade of the retractors should not be slid while gripping, but should be removed from the muscle and moved to another point. If the number of the tip cleaners remaining on the retractors when closing the wound is not same as the initial number, a portable X-ray should be used to locate and retrieve the lost tip cleaners.

During the period from February 2011 to February 2013, we applied this technique in 98 breast reconstruction cases (Fig. 4). In all of the cases, we achieved a better operative field, so that it was easier to dissect the muscle and control the bleeding in the submuscular area. We have never had any problems related to the tip cleaners, such as injury to the muscle during surgery. In any other breast surgery or submuscular dissection, the new retractors provided us with a better operative field and allowed the operation to be performed with greater ease.

New retractors can be constructed easily during surgery, so they are very cost-effective. They are attractive items to surgeons, providing a stable operative field and facilitating speedy, safe, and simple submuscular dissection.

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Basal Cell Carcinoma Presenting as a Hypertrophic Scar

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Basal cell carcinoma (BCC) is one of the most common skin malignancies. Its well-known etiologic factors include ultraviolet (UV) exposure, ionizing radiation, arsenal exposure, and genetic predisposition. Moreover, its etiological association with trauma or scar tissue has also been documented [1-3].

A 39-year-old woman visited us with the chief complaint of a hypertrophic scar occurring in the right supratip region (Fig. 1A). The patient had no past history of having abnormal symptoms or diseases in the right supratip region, but presented with a 10-month history of acne-like pustules. The patient also stated that the inflammation waxed and waned as the scars were frequently irritated during

Fig. 1.
Clinical photos. (A) Preoperative view. A well-defined, 0.7 cm × 0.7 cm round, skin-colored nodule on the nasal dorsum. (B) Intraoperative view. Surgical design using a bilobed flap. (C) Postoperative view. Good cosmetic results 12 months after excision.
Presumably, this might be because the long-term, excessive exposure to physicochemical irritants might induce the occurrence of skin malignancies [2].

In 1828, Jean-Nicholas Marjolin et al. first described the possible role of trauma in the pathogenesis of skin malignancies. Since then, several authors have reported the malignant transformation of a wound or scar tissue. “Marjorlin’s ulcer” was originally coined to describe the cancer originating from a burn injury scar. However, its usage has since been extended to describe all malignancies arising from scar tissue [3].

In 1986, Noodleman and Pollack [3] reported that there was a relationship with trauma in 7.3% of 1,774 cases of BCC. More recently, Ozyazgan and Kontas [1] reported that trauma and scar tissue play a role in the pathogenesis of BCC. In Korea, two cases of BCC have been reported to have arisen from trauma [4]. To date, however, few reports have addressed this subject compared with about the number of reports on squamous cell carcinoma arising from scar tissue. The length of time that elapses from the onset of trauma until a tumor occurs can vary, ranging from several weeks to several decades. Many types of trauma have been documented as causes of BCC, such as burn injury scars, vaccination sites, chicken pox scars, tattoo sites, sharp or blunt physical injury, skin exposed to polycyclic aromatic hydrocarbons, lupus vulgaris, chronic stasis ulcers, sites of cold injury, site of hair transplantation, lesions of epidermolysis bullosa, colostomy sites, dog bites, electrical burns, and gunshot wounds [1-5].

Little is known about the pathophysiology of the malignant transformation of scar tissue [1,3]. However, reports suggesting various types of involvement of trauma in the pathophysiology of BCC have included the following: 1) The BCC incidentally occurs with no etiological association...
with the trauma. BCC is a very common disease entity. Therefore, based on the recognition of major skin trauma or wounds, patients spontaneously consider the BCC to have occurred in association with the trauma. However, there is no actual correlation between the two phenomena [3].

2) The skin becomes more vulnerable to UV exposure because of the atrophy and decreased perfusion in the trauma-induced scar tissue. Thus, the nutritional supply is compromised, which eventually leads to a lack of ability to repair DNA damage [3].

3) With chronic irritation to the damaged skin tissue, malignant transformation occurs. The damaged skin tissue releases toxins that may cause cellular mutation. Chronic wounds exposed over the long-term to these toxins become more vulnerable to malignant transformation [5].

4) In cases of tumors arising from dense scar tissue, immunological privilege prevents lymphocyte infiltration. This interferes with the immune surveillance system. Thus, the tumor can protect itself from human defense mechanisms until its growth reaches a significant level [3].

5) In the presence of trauma, the epidermal cells are implanted into the dermis. This triggers the occurrence of foreign body reactions in the dermis, alters the normal wound healing activity of the tissue, and renders the tissue more vulnerable to damage [5].

In cases of BCC arising from trauma or scar tissue, the degree of malignancy is not relatively higher than that due to other causes [1,3]. Therefore, standard treatment modalities are performed for the management of BCC.

Our case highlights that BCC may also occur even after the trauma. Therefore, clinicians must rule out the possibility of malignant transformation when they examine patients with traumatic scars located on body surfaces that are vulnerable to sunlight exposure.

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Reconstruction of a Rare Palate Defect Originating from Extranodal Natural Killer/T-Cell Lymphoma

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Extranodal natural killer (NK)/T-cell lymphoma is a very rare and aggressive form of non-Hodgkin’s lymphoma, derived from NK cells [1]. The primary site of extranodal NK/T-cell lymphoma is the nose; however, it often extends to adjacent tissues, including the nasopharynx, paranasal sinuses, and oral cavity.

Extranodal natural killer (NK)/T-cell lymphoma is a very rare and aggressive form of non-Hodgkin’s lymphoma, derived from NK cells [1]. The primary site of extranodal NK/T-cell lymphoma is the nose; however, it often extends to adjacent tissues, including the nasopharynx, paranasal sinuses, and oral cavity.

Fig. 1. Neck computed tomography image at diagnosis: heterogeneously enhancing mass lesion on the right nasoethmoidal area.