

코성형술에 사용된 고어텍스의 안정성에 관한 다기관 평가

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Multicenter Evaluation on the Safety of Gore-Tex as an Implant in Rhinoplasty

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ABSTRACT

Background and Objectives : This study was done to evaluate the safety of Gore-Tex as a nasal implant. **Materials and Method** : A retrospective multicenter study was carried out on 15 surgeons from 11 general hospitals and 4 private practice clinics regarding the safety of the Gore-Tex as a nasal implant. The study involved 853 patients, of whom 656 received primary surgery and 197 revision surgery. Gore-Tex was mainly used as a dorsal implant in a form of sheet or as a reinforced nasal implant. **Results** : The overall complication rate associated with Gore-Tex was 2.5% (21 cases). Infection was the most common complication (18 cases ; 2.1%) followed by 2 cases of seroma and 1 case of persistent nasal swelling. In 19 out of 21 complication cases, the graft needed removal to control the infection or seroma (91% removal rate). Nine cases of infection developed in both primary cases (1.37%) and in revision cases (4.57%), which suggests a higher association rate between infection and revision cases ($p=0.0062$). Infection developed within 1 month in 5 cases while 9 cases developed infection after 6 months of operation. Other complications such as aesthetic problems (malpositioning of the implant or dorsal irregularities) were found in 15 cases (1.8%) and hematoma in 1 case. **Conclusion** : The infection rate of Gore-Tex used in rhinoplasty was about 2% and it rose significantly in the revision cases. If infected, almost all of the implanted Gore-Tex needs removal; therefore, we suggest judicious use of Gore-Tex in rhinoplasty. (Korean J Otolaryngol 2004;47:1251-5)

KEY WORDS : Gore-Tex · Rhinoplasty · Infection.

코성형술에 사용된 고어텍스의 안정성

가
 가
 가 (Gore - Tex) expanded polytetrafluoroethylene (solid nodule)¹⁾ 30 1993
 (pore) 가 10~30 μm (fibril)가
 가
 가
 가
 가
 가
 가 853 11
 가 4 4 : 3
 가 32 1
 가 18 (external approach) (endonasal approach) 가 5 : 2
 가 853 (23%) 가 656 (77%), sheet preformed rein- forced nasal implant

21 (2.5%)
 18 (2.1%), (seroma) 2 , (Table 1).
 (persistent swelling) 1
 21 19
 2 (Fig. 1). 3

Table 1. Complications related with Gore-Tex implant in rhinoplasty

Infection	18 (2.1%)
Seroma	2
Persistent swelling	1
Total	21 (2.5%)

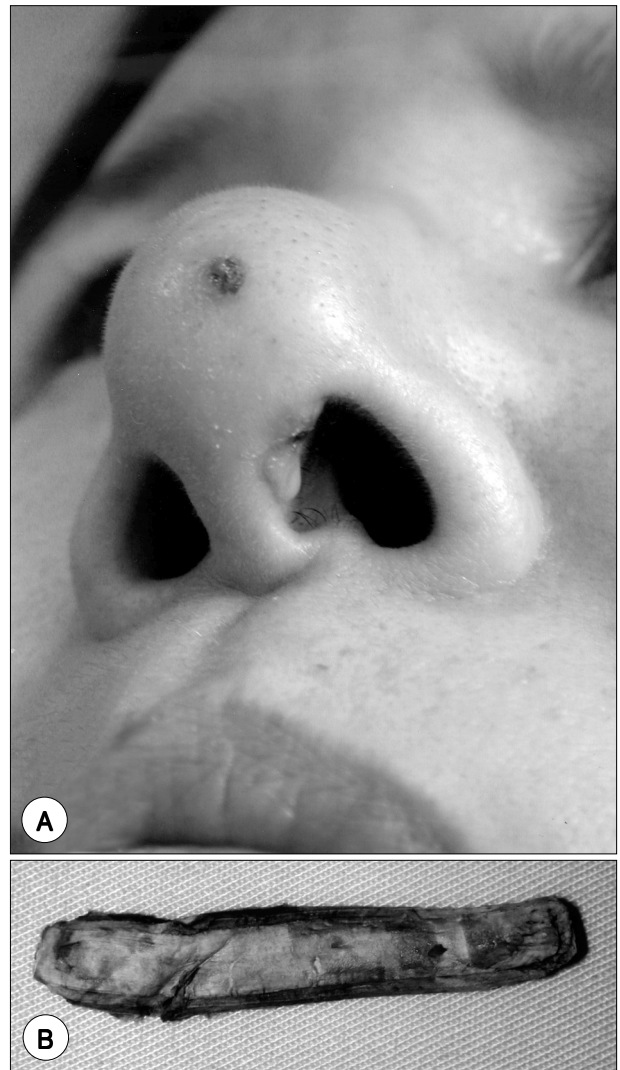


Fig. 1. A : Gore-Tex infection causing swelling and pus drainage from the nasal tip and columella. B : Removed Gore-Tex.

aureus

property) albumin, immunoglobulin G, fibrinogen, fibronectin, proteoglycan

¹³⁾

¹⁰⁾¹⁶⁾

(macrophage)

20 μ m

가

¹⁶⁾¹⁷⁾

(foreign body reaction)

¹⁾¹⁴⁾

가

가

¹⁾

(tissue plane)

가

¹²⁾

가

(granuloma)

(multinucleate giant cell)가

¹⁸⁾

가

가

⁴⁾¹²⁾

¹⁸⁾

가

가

가 1

가

⁴⁾

¹⁾

가

가

(over - augmentation)

가

¹²⁾

가 91%

2.6%

¹⁰⁾

가

3

가

⁴⁾

⁴⁾⁵⁾

가

¹⁾¹⁵⁾

18

4

1

가

(extrusion)

가

(inflammation),

가

¹⁹⁾

(infection)

(exduate)

가

가

가

, 가

가

Staphylococcus

가

¹⁾⁴⁾⁹⁾

가

(hydrophobic

2%

가

가

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