

# 이비인후과 영역의 창상 치유에 2-Octylcyanoacrylate (Dermabond®)의 이용

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## Application of 2-Octylcyanoacrylate(Dermabond®) in Wound Healing of Otorhinolaryngologic Field

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### -ABSTRACT-

**Background and Objectives** : Cyanoacrylate-based adhesives are topical glues that bond to the outermost layer of skin to form a seal over the apposed edges of laceration or incision. 2-Octylcyanoacrylate is a long carbon chain cyanoacrylate derivatives that is stronger and more pliable than its shorter chain derivatives. This study was performed to evaluate the effectiveness of the tissue adhesiveness of 2-Octylcyanoacrylate with suture for the wound closure of otorhinolaryngologic field. **Materials and Methods** : Thirty-six patients who underwent preauricular fistulectomy, thyroidectomy, mastoidectomy between March and June 2002 were enrolled : the 2-Octylcyanoacrylate group (n=18) and the suture group (n=18). The length of time for repair was recorded. The incisions were evaluated with visual analog scale (VAS) and Hollander wound evaluation scale (HWES) after 12 weeks. **Results** : 2-Octylcyanoacrylate provided faster skin closure, and there were no differences in complications between the two groups. Results of VAS and HWES revealed equivalent cosmetic results in both group. **Conclusion** : Application of 2-Octylcyanoacrylate may be an effective method of skin closure in otorhinolaryngologic field. (J Clinical Otolaryngol 2003;14:244-248)

**KEY WORDS** : 2-Octylcyanoacrylate · Tissue adhesives.

서 론 (paper adhesion)  
가 1949  
cyanoacrylates가  
가 .<sup>1)</sup>

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: 2 - Octylcyanoacrylate(Dermabond®)

2 - Butylcyanoacrylate(Histoacryl Blue®, Braun, Germany) Octylcyanoacrylate가

(FDA) 2 - Octylcyanoacrylate 3~4

2 - Octylcyanoacrylate(Dermabond®, Ethicon, USA) 2 - Butylcyanoacrylate 6 5 4 4 4 2 -

<sup>2)</sup> 2 - Octylcyanoacrylate Octylcyanoacrylate 4

<sup>2)3)</sup> 2 - Octylcyanoacrylate 5 4

<sup>4)</sup> Octylcyanoacrylate 4 2 - Octylcyanoacrylate가 4

2 - Octylcyanoacrylate 가 5

2 - Octylcyanoacrylate 2 - Octylcyanoacrylate 7

**대상 및 방법**

대 상 1, 2, 3

2002 3 6 0 100 100 mm 3

10, 4 4 Visual analog scale(VAS) 가

2 - Octylcyanoacrylate 4 Hollander Wound Evaluation Scale(HWES)

2 - Octylcyanoacrylate (step - off borders), (contour irregularity), (scar width), (edged inversion), (excessive inflammation), (overall cosmetic appearance) 6 0 1

방 법 , 6

<sup>5)</sup> Windows SPSS(version 8.0) t - test

5 0.05

가 (silastic) **결 과**

drain) 2 -

10  
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 16.3 , 135.8  
 2 - Octylcyanoacrylate  
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 Octylcyanoacrylate가  
 가 가  
 가 2 - Octylcyanoacrylate  
 2  
 가 2

**Table 1.** Clinical outcomes for preauricular fistula patients

	2-Octylcyanoacrylate (N=10)	Suture (N=10)	p
Mean age	10.3	10.9	.82
Mean length of wound (cm)	2.5	2.6	.81
Mean time of repair (second)	16.3	135.8	<.001
Mean VAS score	3.5	3.4	.84
HWES (%)	67.4	69.7	.45

**Table 2.** Clinical outcomes for thyroidectomy patients

	2-Octylcyanoacrylate (N=4)	Suture (N=4)	p
Mean age	50.5	47.2	.12
Mean length of wound (cm)	7.0	7.1	.81
Mean time of repair (second)	25.0	274.3	<.001
Mean VAS score	2.5	2.3	.14
HWES (%)	70.7	74.3	.18

**Table 3.** Clinical outcomes for mastoidectomy patients

	2-Octylcyanoacrylate (N=4)	Suture (N=4)	p
Mean age	36.3	38.5	.22
Mean length of wound (cm)	6.8	7.0	.51
Mean time of repair (second)	20.0	220.3	<.001
Mean VAS score	4.0	3.7	.64
HWES (%)	88.7	87.4	.28

(Table 1).  
 50.5 , 47.2  
 7.0 cm, 7.1 cm 25.0 , 274.3 2 -  
 Octylcyanoacrylate 3  
 가 (Table 2).  
 36.3 , 38.5  
 6.8 cm, 7.0 cm  
 20.0 , 220.3 2 - Octylcyano-  
 acrylate 3

(Table 3).  
 2 - Octylcyanoacrylate  
 가

**고 찰**

1949 cyanoacrylate  
 가 , Coover Methyl -  
 2 - cyanoacrylate가  
 ,<sup>6)</sup> cyanoacrylate가<sup>7)</sup>  
 Histoacryl Blue(N - Butyl - 2 - Cyanoacry-  
 late)<sup>8)</sup>  
 , Histoacryl Blue(N - Butyl - 2 - Cyanoacry-  
 late)가 5~7  
 , 1 5 - 0 monofilament  
 10 15% 가<sup>9)</sup>  
 (polymerization) 가  
 (low tension)



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