

b

Haemophilus influenzae
(Buccal Cellulitis) 1

. . *

= Abstract =

A Case of Buccal Cellulitis Caused by *Haemophilus influenzae*
Type b in an Immunocompetent Child

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Buccal cellulitis which presents with high fever and a swelling of the cheek with violaceous hue in young children is most often caused by *H. influenzae*. Bacteremia is common in buccal cellulitis caused by *H. influenzae*, and a culture of cerebrospinal fluid should be obtained because meningitis may be present despite the lack of meningeal irritation signs. Although buccal cellulitis is considered to be one of the important manifestations of *H. influenzae* infection, only two cases have been reported in Korea yet. We experienced a case of buccal cellulitis with *H. influenzae* bacteremia in an immunocompetent girl of 18-month-old. She was presented with high fever followed by rapidly progressive swelling and tenderness of both cheeks with violaceous hue in four hours. The blood culture revealed *H. influenzae* type b. There was no concurrent otitis media, sinusitis, or meningitis and no portal of entry was identified. Fever subsided two days after starting intravenous cefotaxime. Intravenous cefotaxime was subsequently changed to oral cefixime, and antibiotics were administered for a total of two weeks. We report this case with a review of related literature.

Key Words : *Haemophilus influenzae*, Buccal cellulitis

(dermis)

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(Hib)

Haemophilus influenzae

, , Hib가 4 가 가 Hib 6 1 39 40 5 Hib 1, 2) Hib (flucloxacillin + gentamicin) . 1986 1996 *H. influenzae* 3) 2 가 가 4) Hib 1999 4 3 105/60 mmHg, 32 , 105 , 37.0 , 11 kg(25 50) . Hib , 8 × 10 cm 가 (Fig. 1). 가 : , , 18 : : 가 3.2 kg . BCG 1 , B 가 3 , DTaP/TOPV 4 , MMR 1 , Hib 가 : 1 1 4 , 3 2 38.3



Fig. 1. Swelling of both buccal tissue and neck especially right side with violaceous hue in an 18-month-old girl.

: 1
20,100/
μL(16%, 65%, 14%) ,
11.1 g/dL,
32.3%, 19,700/ μL(16%,
44%, 15%), 328,000/ μL
15 mm/hour , C-
19.1 mg/dL .
6.2 g/dL, 3.4 g/dL, 5 mg/
dL, 0.4 mg/dL, alanine aminotransferase
18 U/L, aspartate aminotransferase 11 U/L, amylase
33 U/L, creatine kinase 22 U/L, lactate dehydrogen-
ase 209 U/L . 1 1
*H. influenzae*가
2
1/ μL, 1/ μL(0/ μL, 1/

μL), 15 mg/dL, 56 mg/dL . , *H.*
influenzae

,
X- ,

,
(spinal accessory lymph node)

, . *H. in-*
fluenzae a f 6가
(Denka Seiken, Tokyo, Japan)

b
: nafcillin(100 mg/kg/day)

cefotaxime(100 mg/kg/day)
2 , 6
*H. influenzae*가

nafcillin
12
cefixime(8 mg/kg/day) 3
, 6

, Hib (PRP-T)

H. influenzae ,
, , , ,
, ,
a f
6가 (nonencapsulated)
b
,
Hib 5 ,
3 3 . Hib
가 ,
5
Hib

, 50 65% , ⁸⁾ .
 10 30%, 5 9%, 5%, *H. influenzae*
 2 15% ^{1, 2)} . Hib ,
 가 1986
 가 . 1996 11 *H.*
 5 100,000 16 69 *influenzae*
 Hib , 6 11 , 38
 275/100,000 Hib 25 가 , 8 가 , 3 가 , 1
⁵⁾ . 5 200 1 가 , 1 가 ,
 , Hib 1 가 , 9 가 , 2 가
 , 350 1 ⁶⁾ , ³⁾ .
 5 10% Hib
 가 Hib 가 5 .
 20 30/100,000 Hib 가
 . Hib ,
 , Alaskan Eskimos, Canadian 가
 Inuts, Navajos Apaches , Hib
 Apache Indian
 Hib 5 100,000 ⁷⁾ . , Hib
 600 , 150 가
 1 가 가
 가 . Hib ,
 , 12 Hib
 가 5 100,000 10
 2 4 , Finland Hib 가 .
 Hib 가 가 ⁴⁾ . *H.*
^{8 10)} . Lau *influenzae* biotype II IV
H. influenzae 2 , 9
 ,
 Hib 5 28
 10 1.1 10 (orbital cellulitis) , 2
 100,000 , 57 2.67/
 , *H. influenzae* 2

가⁴⁾ (violaceous hue) Hib
^{11 13)} 1953 Alexander ,
¹⁴⁾ Hib Hib 가 2/3
 가 , Ginsburg¹⁵⁾ ,
 1970 1980 72 Hib . 18
 . 72%가 1 Hib
 , , .
 13.8
 . 68% . 가
 23 22 Hib가 15,000/ μ L 가
 . 86% , 7.6%¹⁹⁾ .
 . Carter¹⁶⁾ 60 .
 (portal of entry)가 가 가
 21 39 ,
 , *Staphylococcus au-* 0.1 mL 가
reus ,
 26 19 *H.* . 55 86%
influenzae . Fleisher¹⁷⁾ 4.2 8.8%
 78 ,
 26 . 26^{15, 18, 19)} .
 Hib , 19 Hib가
 7 , 7 1 .
 . Baker¹⁸⁾ 80
 , 34²⁰⁾ , 72
 , 46 (preseptal
 cellulitis) . 67 Hib, 12
 , 1 *Streptococcus pyogenes*가^{12, 13)} . Baker¹⁸⁾
 . 7
 6 Hib 1 , 5
 (irritability) ,
 . 2
 , 1
 , 1 . , 가
 (pleocytosis), ,
 .
 Hib 6 3 . Hib가
 .
 가
 가 . 7 10

5 , 2 15%
가
Hib
18
cefotaxime(200 mg/kg/day) ceftriaxone(100 mg/kg/day)
Ampicillin chloramphenicol
가 methicillin(200 mg/kg/day)
ampicillin, chloramphenicol, cefotaxime
amoxicillin ampicillin
amoxicillin-clavulanate(40 mg/kg/day) 3
cephalosporin cefixime cefpodoxime
H. influenzae beta-lactamase ampicillin²¹⁾
가 50%
Hib 가 Hib
가 1989 5
가 100,000
41 1993 2²²⁾, 1997 0.4
Hib b
가
H. influenzae
가
Hib

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