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= Abstract =

A Case of Ecthyma Gangrenosum Associated with Liver Abscess and Renal Abscess

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Ecthyma gangrenosum is usually seen in immunocompromised patients, particularly in those with underlying malignant disease. Ecthyma gangrenosum is rapidly progressing skin infection characterized by edema, hemorrhage, bullae and necrosis. We experienced the case of a 13-month-old male who had Ecthyma gangrenosum associated with liver abscess and renal abscess. The patient initially presented with skin lesions of multiple well defined central necrotic black colored large erythematous bullae. The multiple liver abscess with hepatomegaly and multifocal pyelonephritis with focal renal abscess revealed by abdominal ultrasonogram and computed tomogram. In the bacterial cultures of skin, urine and liver aspiration fluid, *Pseudomonas aeruginosa* was grown. The patient had no immune deficiency disease. We report this case with a review of related literatures.

Key Words : Ecthyma gangrenosum, Liver abscess, Renal abscess

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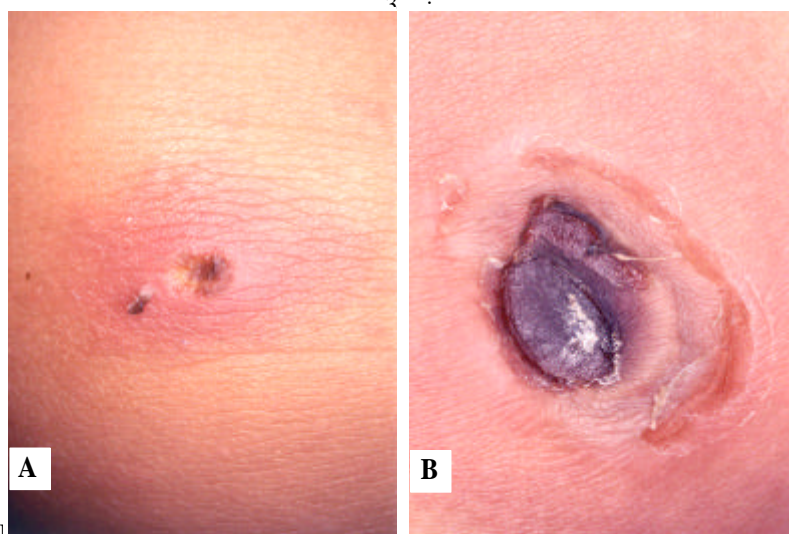


Fig. 1. The central punched-out ulcer surrounded by erythematous halo on left knee(A), the violaceous to black necrotic eschar and surrounding erythematous induration on left thigh(B).

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(Fig. 1).

2 3 cm

:
33,300/mm³(67%, 14%,
19%), 11.0 g/dL, 31.9
%, 101,000/mm³ ,
55 mm/hr, CRP 18.71 mm/hr 가
. AST/ALT 31/53 U/L, Total bilirubin 0.29
mg/dL , 5.2 g/dL,
2.8 g/dL

*Pseudomonas aeruginosa*가

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*Pseudomonas aeruginosa*가

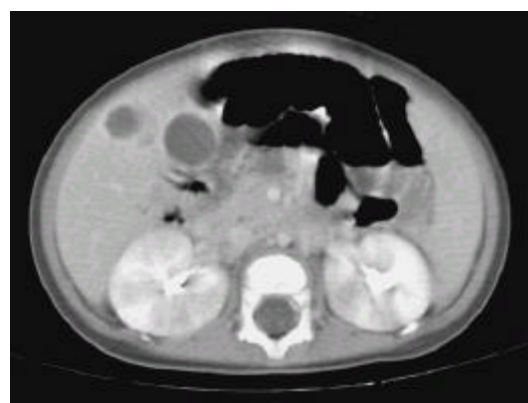


Fig. 2A. Abdominal CT showing about three focal abscess with enhancing walls in the right lobe of the liver, measuring 2.2 × 1.6 cm in segment 5 and focal small low attenuated lesion indicating renal abscess(Hospitalization day 7).

B T (CD4 45%, CD8 29.4%, CD19 13.6%, CD56 10%)

, IgG 675.89 mg/dL(Ig G₁ 15.8 g/L, Ig G₂ 1.92 g/L, Ig G₃ 1.1 g/L, Ig G₄ 0.08 g/L), IgA 96.14 mg/dL, IgM 119.95 mg/dL, IgD 0.55 mg/dL, IgE 46.4 U/mL

. C3 61.16 mg/dL, C4 10.09 mg/dL, CH50 30/mL

DHR(dihydrorhodamine 123 fluorescence) flow cytometry

Peroxidase

: 5

7

(leukocyte adhesion defect)

1.1×1.5 cm, 2.2×1.6 cm, 1.1×0.8 cm

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(Fig. 2A). 31

(Fig. 2B).

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(Fig. 3A, 3B).

Fig. 2B. Abdominal CT shows that multiple low attenuated lesion with peripheral enhancement in the liver parenchyma and focal low attenuated small abscess pocket in inferior pole of left kidney has completely disappeared(Hospitalization day 31).

ceftriaxone amikacin

2 vancomycin metronidazol

가 5

amphotericin B 가

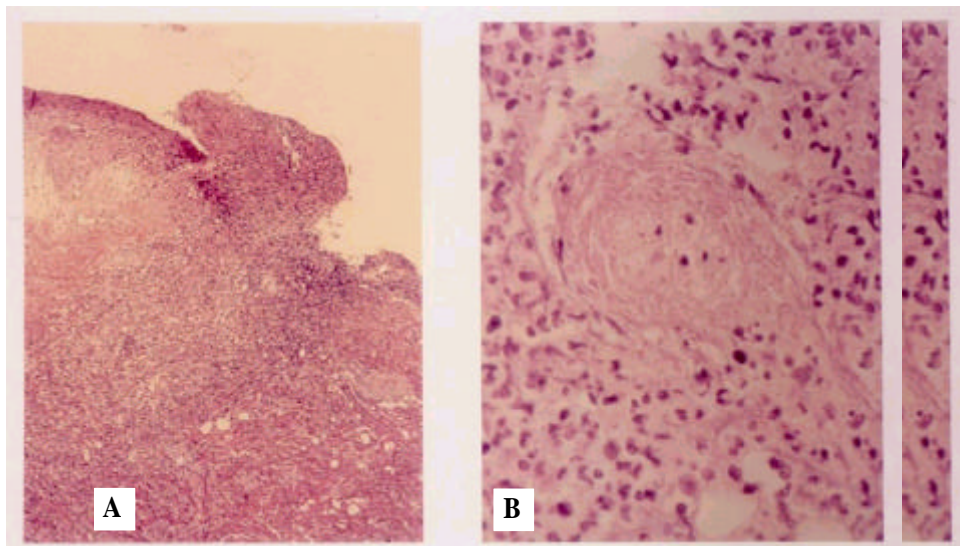


Fig. 3. Skin biopsy specimen from the border of ulceration shows epidermal necrosis and dermal edema and diffuse cellular infiltration throughout the dermis(A), necrotizing vasculitis and mixed cellular perivascular infiltration(B)(H&E stain, A ×40; B ×400).

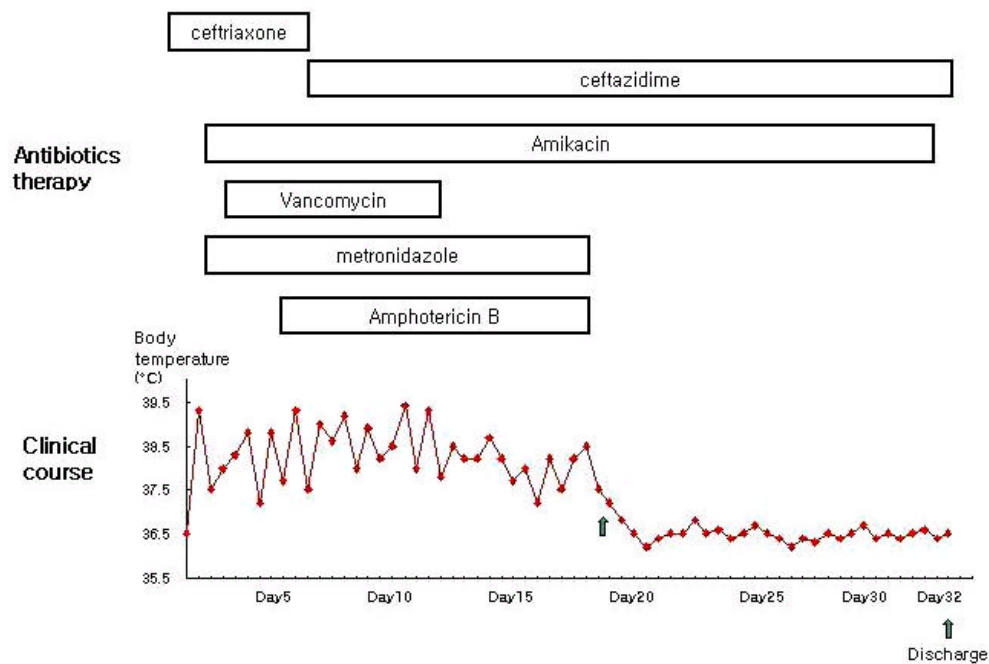


Fig. 4. Intravenous antibiotics therapy and clinical course - The patient was treated with combination therapy of intravenous ceftazidime and of intravenous amikacin for about 4 weeks. In the course of treating, his fever was subsided on the 19th day of hospitalizing and then the patient discharged on the 32th day of hospitalizing.

6 *Peu-* 5) . ,
domonas aeruginosa 7) ceftriaxone 6) .
 ceftazidime . Vancomycin 11 ,
 metronidazole 17 , amphotericin B 14
 , 4 ceftazidime amikacin
 19 ,
 .
 . 32 3) .
 , 1897 Baker⁷⁾
 . Hirschmann Kreibich가 "Ec-
 thyma gangrenosum" 1) .
 , ,
 6) .
 1882 Gessard가
 3, 4) . Mull 8)
 Wong 9) , 5)
 10% 1 . 5)

가⁵⁾ .

30% *Pseudomonas aerugi-*
nosa ³⁾ 70% *Pseudomonas*
¹⁰⁾ *aeruginosa*가 .

가 ,
gentamicin, tobramycin amikacin ,
ticarcillin, ceftazidime, piperacillin
¹⁾ .

가⁶⁾ , Tep-
litz¹³⁾ ,
5, 11, 12) .

가
^{1, 14)} .

¹³⁾ .

가
¹⁾ 1 6
amikacin ceftazidime

가
probenecid .

(chloroma),
(erosive pyoderma associated with
inflammatory bowel disease), (peria-
nal abscess), (folliculitis),
(herpes simplex labialis) ¹⁾ .

4
6 ¹⁾ .

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(erythema
multiforme), (panniculitis) ,
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, ,
MacConkey , eosin methyl
blue(EMB) .

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