=Abstract=

A case *Mycoplasma pneumoniae* pneumonia with acute respiratory distress syndrome (ARDS)

Cheol-Woong Yu, M.D., Hee-Jin Cheong, M.D., Min-Seung Kang, M.D.
Heung-Jeong Woo, M.D., Woo-Joo Kim, M.D., Min-Ja Kim, M.D.
and Seung-Chull Park, M.D.

Department of Internal Medicine, Korea University College of Medicine, Seoul, Korea

Pneumonia caused by *Mycoplasma pneumoniae* is manifested as a mild and self-limited. However, several overwhelming cases have been reported. Recently, we experienced a case of *M. pneumoniae* pneumonia that progressed into ARDS in a 68-year old man who was admitted because of fever and erythema multiforme on whole body. On admission, serum cold agglutinins and anti-mycoplasma Ab were negative. Lobar consolidation was visible at initial chest X-ray. But, bilateral infiltration was noted at follow-up chest X-ray and his condition was aggravated to ARDS. Anti-mycoplasma Ab was elevated up to 1:640. He was treated with roxithromycin, prednisolone and mechanical ventilator in ICU for 2 weeks. And after this, his clinical condition was recovered completely. (Korean J Med 58:324-329, 2000)

Key Words : *Mycoplasma pneumoniae*, Pneumonia, ARDS

<i>Mycoplasma Pneumoniae</i>	20%	가	가
,	15%	가	<i>M. pneumoniae</i>
,	1).		
,			
3- 10%			가
	가		
5- 20			
	<i>M. pneumoniae</i>	1	

• : 1999 4 7

• : 1999 6 29

• : , 80

E-mail : hbinmama@chollian.net

(152- 703)

116 mg/dl, 5.29 g/dl,
 3.18 g/dl, 1.92 mg/dl, ALP 143 IU/L,
 AST/ALT 169/66 IU/L
 PT 16.6 (58%)
 aPTT 47, BT 2 30
 C-reactive protein 88.4 mg/L
 X
 mycoplasma
 2
 X
 100/60 mmHg,
 92, 26, 38.2
 가
 (Figure 1).

(Figure 2). 7.5 cm H₂O

Figure 2. Chest X- ray shows bilateral, patch, lobar consolidation in both lung fields.

Figure 1. Variable sized, nodular, erythematous rashes are noted on the trunk.

: -
 :
 :
 16.3 g/dl, 17,100/mm³ 46%,
 27%, 24%), 57,000/mm³
 BUN/creatinine
 13/0.9 mg/dl Na 134
 mEq/L, K 3.5 mEq/L, Cl 107 mEq/L

Figure 3. Follow-up chest X-ray shows more aggravated, patch and lobar consolidation in whole lung field.

Figure 4. Chest CT scan shows patch, ground-glass opacities and air-space consolidations in both lung field.

pH 7.304, PaCO₂ 42.7 mmHg, PaO₂ 46.4 mmHg, HCO₃ 17.4 mmol/L
6 L

(Figure 3, 4).

2 cephalosporin cefamandole 1.0 g q 8 hr
roxithromycin 100 mg b.i.d p.o.

2 ,

3 cephalosporin cefoxaime
1.0 g q 8 hr, tobramycin 80 mg q 8 hr,
roxithromycin 100mg b.i.d p.o.

mycoplasma 14

1:640 가

1:64 가 *Mycoplasma pneumoniae*

roxithomycin

prednisolone 30 mg/

14

X-

Figure 5. Follow-up chest X-ray after 14 days of treatment: complete resolution was noted.

(Figure 5)

1938 Reimann

(primary atypical pneumonia)"

1930 PPLO (pleuropneumonia-like organism)

agent , 1962 Chanock2)

"*Mycoplasma pneumoniae*"

M. pneumoniae prokaryote 150-250 nm

(penicillin, cephalosporin) 3) *Mycoplasma* spp.

15 ,

M. pneumoniae, *M. hominis*, *Ureaplasma urealyticum* 3

M. pneumoniae .4)

M. pneumoniae

가 ,

pneumoniae

1)

6 : 1 -

20% 7- 9 3- 4

가 가 , , 가 4- 6 2- 3

50% 1:16 가 8. 1: 640

.5) *M. pneumoniae* *M. pneumoniae*

2- 3 가 , , , 가 10 5.

1:64 가 4

가 가 1

2 2- 3

1). 1995 6) 4 1).

M. pneumoniae 1:

가 64 *M. pneumoniae*

33- 76% 7) Influenza

virus, , adenovirus

M. pneumoniae 1:64

가 12. ,

M. pneumoniae X-

가 75- 90% 25%

6. ,

25% 10- 42%

가 7. 가 13.

M. pneumoniae 가 , ,

M. pneumoniae 가

mycoplasma 가 , Raynauds ,

M. pneumoniae , ,

9. 가 가

가 4 *M.*

pneumoniae 1). , prothrombin time

mycoplasma 11- 25%

(Complement fixation), ,

(indirect hemagglutination test), Steven- Johnson syndrome

(ELISA) 10) 13.

가 . , ,

, Guillain-Barre
M. pneumoniae
 가 1960
 erythromycin tetracycline
 . 1973 , erythromycin 500 mg 4
 Foyl) *M.* tetracycline 250 mg 4
pneumoniae 4 가
 2
 X- macrolide clarithromycin azithromycin
 가
M. pneumoniae 가 erythromycin 2)
 roxithromycin . Fluoroquinolone
 가 *M. pneumoniae* 가
 sparfloxacin
M. pneumoniae 가 .25)
 - , , ,
 Brunner 7)
M. pneumoniae
 mycoplasma
 가
M. pneumoniae
 . Eduardo 8) *M. pneumoniae* 가
 25
M. pneumoniae
 1992 2)
M. pneumoniae 1 *pneumoniae* *M.*
 1996 2)
 가 1:20, 480, 가 1:1024 1
 erythromycin prednisolone
 1 2) 가
 , *M. pneumoniae*
M. pneumoniae
 2- 4

REFERENCES

1) Gail H. Cassell, Gregory C. Gray, K.B. Waites. Mycoplasma infections. In: Fauci AS, Braunwald E, Isselbacher KJ et al, Harrison's Principles Internal medicine. 14th ed. p1053, The McGraw-Hill Companies Inc, 1998
 2) Chanock RM, Hayflick L, Barile MF. Growth on