



UCI Medical Center

Antibiotic Therapy for Out-Patient Treatment for Community Acquired Pneumonia

**GOAL: MUST RECEIVE ANTIBIOTICS
PRIOR TO DISCHARGE**

Patient Characteristic	Points
Demographic Factors	
Male age in years	Age
Female age in years minus 10	Age -10
Nursing home resident	10
Comorbidities	
Neoplastic disease	30
Liver disease	20
Congestive heart failure	10
Cerebrovascular disease	10
Renal disease	10
Physical examination findings	
Altered mental status	20
Respiratory rate $\geq 30/\text{min}$	20
Systolic BP $< 90 \text{ mmHg}$	20
Temperature $< 35^\circ \text{C}$ or $\geq 40^\circ \text{C}$	15
Pulse $\geq 125/\text{min}$	10
Laboratory Findings	
PH < 7.35	30
BUN $> 29.7 \text{ mg/dl}$	20
Sodium $< 130 \text{ mEq/L}$	20
Glucose $> 250 \text{ mg/dl}$	10
Hematocrit $< 30\%$	10
PO ₂ $< 60 \text{ mm Hg}^*$	10
Pleural effusion	10
Total	

ANY OF THE FOLLOWING MAY BE ADMISSION CRITERIA:

ALTERED MENTAL STATUS, TEMPERATURE $< 35^\circ \text{C}$
OR $> 40^\circ \text{C}$ RESP. RATE > 30 , PULSE > 125 , O₂ sat $< 90\%$,
SYSTOLIC BP $< 90 \text{ mm}$
FAILED COURSE OF ANTIBIOTIC THERAPY, INABILITY TO TAKE
PO FLUIDS

Yes →

SEE ADMISSION
PATH

No ↓

PATIENT WITH SUSPECTED COMMUNITY ACQUIRED
PNEUMONIA NOT MEETING INPATIENT ADMISSION CRITERIA
TREATED ON AN OUT-PATIENT BASIS

ANTIBIOTIC SELECTION

OUT-PATIENT ≤ 60 YEARS AND NO CO-
MORBID DISEASE:

MACROLIDE OR DOXYCYCLINE

OUTPATIENT WITH CO-MORBIDITY—

A. MACROLIDE or DOXYCLINE PLUS
EITHER
OF THE FOLLOWING TWO CHOICES:

1. HIGH DOSE AMOXICILLIN
2. CEFUROXIME

B. RESPIRATORY FLUOROQUINOLONE:
LEVOFLOXACIN

AFTER CARE
INSTRUCTIONS DISEASE
& DRUG SPECIFIC

FOLLOW-UP PMD

TRIAGE

Order set:

CHEST X-RAY REQUIRED TO
CONFIRM DIAGNOSIS OF PNEUMONIA

OPTIONAL:

CBC
GRAM STAIN of Sputum
Blood Cultures of sputum T $> 38^\circ \text{C}$

Stratification of Risk Score

Classes based on age, comorbidities and clinical findings. Risk classes I to II are considered low risk. Risk classes IV and V are moderate to high risk

CLASS I Low Risk Out Patient

< 50 years of age

No comorbidities (see below)

No abnormal physical examination findings (see below)

CLASS II to V Recommendations for Care

Class II ≤ 70 points Low Risk Out Patient

Class III 71-90 points Low Risk In Patient

Class IV 91-130 Points Moderate In Patient

Class V > 130 points High In Patient

Oral Antibiotic Regimens for 7 days

Erythromycin	500mg q6h	\$5.00
Doxycycline	100mg BID	\$1.00
Amoxicillin	1gm TID	\$1.00
Azithromycin	500mg x1	\$4.00
Clarithromycin	Follow by 250mg daily x 4 days	\$13.00
Levofloxacin	500mg BID	\$44.00
Cefuroxime	750 daily	\$44.00
	500mg BID x 7 days	\$10.00

*Oxygen saturation $< 90\%$ is also considered abnormal.

eg. 50-yr old female with neoplastic disease and
respiratory rate ≥ 30 . min=50 -10+30+20=90

Risk classification was partially adapted from the Infectious Disease Society of America and the American Thoracic Society.(Fine et al 1997)

EACH PATIENT IS AN INDIVIDUAL AND THE RESPONSES MAY VARY. THIS CLINICAL PATH IS TO BE USED AS A GUIDELINE ONLY.