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3 **Clinical Policy: Critical Issues in the Management of Adult Patients Presenting to the Emergency**
4 **Department With Community-Acquired Pneumonia (Executive Summary)**
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6 **Approved for prerelease by the ACEP President April 14, 2020**
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9 From the American College of Emergency Physicians Clinical Policies Subcommittee (Writing Committee) on
10 Community-Acquired Pneumonia:

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22 Policies Committee (Oversight Committee) and to read this ACEP clinical policy please go to:
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26 **Background**

27 This clinical policy from the American College of Emergency Physicians addresses key issues in the evaluation
28 and management of adult patients presenting to the emergency department with community-acquired pneumonia.
29 A writing subcommittee conducted a systematic review of the literature to derive evidence-based recommendations
30 to answer the below critical questions. For each question, a systematic literature search was performed, evidence
31 was graded and synthesized, and recommendations were made based on the strength of the available data. The
32 background text, systematic review, and critical analysis of the literature will be published later this year in the
33 *Annals of Emergency Medicine*.
34

35 **1. In the adult ED patient diagnosed with community-acquired pneumonia, what clinical decision tools can**
36 **be used to determine disposition?**
37

38 **Patient Management Recommendations**
39

40 *Level A recommendations.* None specified.

41 *Level B recommendations.* Use the PSI or CURB-65 CAP decision tools to help identify low-risk patients
42 who may be appropriate for outpatient treatment.

43 Use a CAP ICU-decision tools (such as the 2007 ‘IDSA/ATS Minor Criteria’) over PSI or CURB-65 to
44 help identify high risk patients who may need ICU-level care.

45 *Level C recommendations.* Do not routinely use biomarkers to augment the performance of clinical
46 decision tools to guide the disposition of emergency department patients with CAP.

47 Use CAP clinical decision tools in conjunction with physician clinical judgment in the context of each
48 patient's circumstances when making disposition decisions (Consensus recommendation).

49
50 **2. In the adult ED patient with community-acquired pneumonia, what biomarkers can be used to direct**
51 **initial antimicrobial therapy?**

52
53 **Patient Management Recommendations**

54 *Level A recommendations.* None specified.

55 *Level B recommendations.* None specified.

56 *Level C recommendations.* Do not rely upon any current laboratory test(s), such as procalcitonin and/or C-
57 reactive protein, to distinguish a viral pathogen from a bacterial pathogen when deciding on administration of
58 antimicrobials in ED patients who have community-acquired pneumonia.

59
60 **3. In the adult ED patient diagnosed with community-acquired pneumonia, does a single dose of parenteral**
61 **antibiotics in the ED followed by oral treatment versus oral treatment alone improve outcomes?**

62
63 **Patient Management Recommendations**

64 *Level A recommendations.* None specified.

65 *Level B recommendations.* None specified.

66 *Level C recommendations.* Given the lack of evidence, clinicians should determine whether or not to
67 provide a single parenteral dose of antibiotics followed by oral treatment guided by individual patient risk profiles
68 and preferences (Consensus recommendation).

69
70 Translation of Classes of Evidence to Recommendation Levels

71 Based on the strength of evidence grading for each critical question, the subcommittee drafted the
72 recommendations and the supporting text synthesizing the evidence using the following guidelines:

73 *Level A recommendations.* Generally accepted principles for patient care that reflect a high degree of
74 clinical certainty (eg, based on evidence from 1 or more Class of Evidence I or multiple Class of Evidence II
75 studies).

76 ***Level B recommendations.*** Recommendations for patient care that may identify a particular strategy or
77 range of strategies that reflect moderate clinical certainty (eg, based on evidence from 1 or more Class of Evidence
78 II studies or strong consensus of Class of Evidence III studies).

79 ***Level C recommendations.*** Recommendations for patient care that are based on evidence from Class of
80 Evidence III studies or, in the absence of adequate published literature, based on expert consensus. In instances in
81 which consensus recommendations are made, “consensus” is placed in parentheses at the end of the
82 recommendation.

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