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## Utility of Pneumotest© (Pneumo plus Bio Fire©) to escape antibiotic resistance performing a fast and reliable management of pneumonia in the emergency room

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**Introduction:** The etiological diagnosis of pneumonia is still a heat for physician involved in emergency departments. Antimicrobial resistance, in fact, depend mainly by unadequate use of antibiotics. So, easy and fast tests to allow a right antimicrobial diagnosis in patients with pneumonia in emergency department are welcome.

**Materials and methods:** We describe a case of pneumonia performed in emergency department with support of a film array

pneumonia panel (PneumoPlus<sup>®</sup>) able to identify nucleic acids of different bacterial or viral agents.

**Results:** This clinical approach was successful for early diagnosis and treatment.

**Discussion:** This approach facilitated not only early diagnosis but also early treatment, adequate antibiotic drugs, reduction of bacterial resistance, reduction of hospital stay and healthcare costs.