

ABSTRACT

Causative treatment of bacterial pneumonia can be obtained from bacterial culture investigations result as the gold standard. Examination of bacterial cultures requires minimum time in 2 days and not available in many places so other investigations are needed. In fact, thorax radiological examination often used to help establish the diagnosis of bacterial pneumonia before treatment. This research is observational with *cross-sectional* study and the diagnostic test is thorax radiograph imaging in patients with suspected by bacterial pneumonia with bacterial culture test as gold standard. Diagnostic test in this study with 2 x 2 table values and the sensitivity is 82, 35% and specificity is 33, 33%. The test results of bacterial culture of *Klebsiella pneumoniae* (47, 06%) in this research is the most commonly found bacteria, then sequentially are *Staphylococcus aureus* (29, 41%), *Escherichia coli* (17, 65%), and *Pseudomonas auroginosa* (5, 88 %). This study shows the sensitivity is 82.35%, which means that the ability of diagnostic tools such as thorax radiological examination to detect patients with suspected pneumonia who absolutely sick was quite high. The thorax radiograph imaging which positive of pneumonia can be used as diagnostic tools to diagnose pneumonia.

Keywords: bacterial pneumonia, diagnostic tests, sensitivity, specificity