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Title: Inflammatory markers and community acquired pneumonia (CAP): Prognosis analysis and predictive capacity in the short term

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Body: Evaluate the correlation between the levels of biomarkers;C-reactive protein (CRP),procalcitonin (PCT), pro-adrenomedullin (MR-proADM);and its short-term change in time with the severity of the CAP and its bad evolution.Methods:Prospective study,we included patients admitted with the diagnosis of CAP in 1 year.2 extractions of peripheral blood were taken from each patient:1 at the time of diagnosis and the other one at 72 hours after admission.Results:65 patients (66.2%male), mean age:72.5±12.Charlson Index:0.88(0-3).2 patients were admitted to the ICU,4 died and 13 had complications in the income.PCT levels were significantly higher in the S.pneumoniae etiology (p=0.013).

The relationship between MR-proADM the day of diagnosis and the prognostic scales in Figure 2.

We find correlation between the levels of pro-ADM and PSI score (R=0.521,p=0.000),and CURB65 grades (R=0.491,p=0.000).Conclusions: MR-ProADM behaves as the best marker of severity.PCT is a useful marker for predicting bacterial etiology.It would be necessary to analyze a larger number of cases to search for a cut-off point of MR-proADM that can determine the bad evolution.