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Summary

THE COMBINATION OF YKL-40 AND INTERLEUKIN 6 PREDICTS MORE ACCURATELY THE SEVERITY OF ACUTE PANCREATITIS THAN EITHER BIOMARKER ALONE: A CROATIAN SINGLE-CENTER PROSPECTIVE OBSERVATIONAL STUDY.

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Pancreas

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Combined YKL-40 and IL-6 concentrations predict moderate or severe acute pancreatitis more strongly than either biomarker alone, independently of C-reactive protein levels.

KEY POINTS

- In 150 consecutive adults with acute pancreatitis, patients with both YKL-40 above 190 ng/mL and IL-6 above 42 pg/mL had higher odds of more severe disease than patients with either biomarker elevated alone, measured both on admission and at 48 hours.
- The predictive association remained after adjusting for age, body mass index, time from symptom onset to admission, and CRP concentrations, though the strength of association was lower after adjustment.
- At CRP concentrations of 90 mg/L and 180 mg/L, the combination of elevated YKL-40 and IL-6 was particularly associated with higher odds of severe disease, while at CRP 45 mg/L no association was observed.
- Non-AP control adults showed YKL-40 concentrations below 50 ng/mL and IL-6 below 20 pg/mL, lower than levels observed in AP patients.
- This prospective study from a single center used revised Atlanta classification for disease severity and enzyme-linked immunosorbent assays for biomarker quantification.

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