

Apache Scoring Systems: Hospital Mortality And Morbidity Assessment In Acute Abdomen Cases

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Background

Apache II is a successful scoring system assessing severity of illness and prognosis of ICU patients. The objective of this study was to assess the accuracy of the Apache method for predicting hospital mortality and morbidity among critically ill cases of acute abdomen and to evaluate differences in the accuracy of Apache II and Apache IV models.

Methods

An observational retrospective cohort study was performed of 33 patients admitted to the Intensive care unit of Safdarjung Hospital for acute abdomen between the months of January and July 2011. Apache scores were calculated based on the worst measurements on ICU day 1.

Results

The maximum number of patients evaluated was in the intermediate range, and the observed mortality increased proportionately with the APACHE score. On comparing the two models, a significant difference was not observed in their respective mortality predictions.

Conclusion

Both Apache models are comprehensive scoring tools in ICU setting. But since the accuracy of these predictive models is dynamic, they should be periodically re-tested. When the accuracy deteriorates, they should be revised and updated.