

Predictive value of gastric intramucosal pH for critical patients

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Abstract

AIM: To observe the predictive value of gastric intramucosal pH (pHi) for critical patients.

METHODS: The pHi of 32 ICU patients was measured with a self-made gastrointestinal tonometer, and the APACHE II score was determined simultaneously.

RESULTS: pHi of the nonsurvivors was significantly lower than that of the survivors ($P < 0.05$). The pHi was remarkably higher in the nonsepsis group than in the sepsis group ($P < 0.01$). Only in multiple organ failure groups, pHi was found statistically lower ($P < 0.05$).

CONCLUSION: pHi may be the most simple, reliable, sensitive and accurate parameter to indicate the adequacy of tissue oxygenation, and it may be widely used in ICU monitoring in near future.

Key words: Gastric mucosa; Multiple system organ failure; APACHE II score; Patients

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