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Cover image

The potential applications of machine learning and artificial intelligence to perioperative monitoring and risk assessment continue to grow. In this issue, Lee and colleagues (pp. 808-817) describe their development and validation of a machine learning model for prediction of intraoperative hypotension based on invasive and noninvasive biosignals that would enable preemptive therapy. Also in this issue, Bataille and colleagues (pp. 826-834) describe machine learning methods applied to transthoracic echocardiography to improve fluid responsiveness prediction in severe sepsis. In the March issue, Douville and colleagues (pp 578-589) used machine learning techniques to improve the ability to predict which patients with COVID-19 are likely to require mechanical ventilation.

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