

Special Issue on
Extended Hemodynamic and Regional Monitoring in the Critically Ill Patient

CALL FOR PAPERS

Currently, extended hemodynamic and metabolic monitoring is still an important issue in the treatment of patients undergoing major surgery and critically ill patients. Since the introduction of the pulmonary artery catheter in the early 1970s, a large number of monitoring techniques have been developed and clinically applied for bedside hemodynamic monitoring. Moreover, an increasing number of less and even noninvasive techniques have been clinically evaluated over the last years. While there is still no clear evidence on when and how to apply these techniques, this field of research remains of particular relevance in anesthesia and intensive care medicine.

Since hemodynamic monitoring and management should always be linked to the metabolic demands, monitoring of oxygen transport and serum lactate is an indispensable cornerstone in the management of these patients. However, systemic variables which may not indicate tissue hypoxia, monitoring of regional perfusion, and oxygenation, particularly of the hepatosplanchnic tract which is regarded as origin and motor of sepsis and multiple organ failure, may be of clinical relevance in the critically ill patient.

The purpose of this special issue is to publish high-quality research articles as well as reviews that seek to address different monitoring techniques of global and regional perfusion and oxygenation, treatment algorithms, and their clinical implementation, each with its opportunities and challenges.

Potential topics include but are not limited to the following:

- ▶ Extended hemodynamic monitoring techniques
- ▶ How to use hemodynamic monitoring to guide treatment in critically ill patients
- ▶ Hemodynamic monitoring and optimization
- ▶ Less and noninvasive monitoring techniques
- ▶ Influence of extracorporeal assist systems
- ▶ Monitoring of oxygen transport
- ▶ Monitoring of serum lactate
- ▶ Regional (e.g., hepatosplanchnic) monitoring
- ▶ Tissue oxygenation, microcirculation, and CO₂ a-v gap

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ccrp/ehrm/>.

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First Round of Reviews

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