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## Evolving Concepts in Hemodynamic Management

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### Message from the Guest Editors

Personalized medicine is becoming a widely accepted concept in critical care and perioperative medicine. Hemodynamic management, one of the most important measures of resuscitation, has a huge impact on outcomes and can be lifesaving if delivered adequately. Fluid management and vasoactive support are crucial components of hemodynamic therapy, but both are double-edged swords. Over- and under-resuscitation can have similar adverse effects leading to unfavorable outcomes. Therefore, individualizing/conceptualizing hemodynamic management are mandatory. However, personalizing therapy requires a multimodal approach and sometimes the use of invasive hemodynamic monitoring. Recently, less invasive and non-invasive alternatives have appeared on the market. However, validating these devices and defining the patient populations in which they can be used as reliable alternatives to the invasive gold standard remain challenging. Translating all the information within this multimodal concept into clinical decision making requires intensive training and a lot of practice. This Special Issue will focus on these topics in chapters written by internationally acknowledged experts in the field.



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**Special** Issue



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