



BioMed Research International

Special Issue on  
**Research Advances in Critical Care: Targeting  
Patients' Physiological and Psychological Outcomes**

# CALL FOR PAPERS

Protracted critical illness along with the ensuing complications such as sepsis and multiple organ dysfunction is an intriguing pathophysiological entity accounting for high morbidity and mortality that continue to challenge clinicians.

Recent developments show that collaborative interdisciplinary interventions targeting patients' needs have the potential to improve survival outcomes, as well as longer-term physiological and psychological outcomes, in many critically ill individuals. These interventions include approaches such as infection control, management of sedation, agitation and pain, early progressive mobilization, palliative care, family presence, management of anxiety, and nonpharmacologic interventions to promote sleep, and they encompass the principles of bundled care and interprofessional collaboration.

With the purpose of delineating a comprehensive evidenced-based paradigm for improving critically ill patients' outcomes, investigators are invited to submit manuscripts related to recent advances in the interdisciplinary care of critically ill individuals and of their families.

Original research articles, systematic and narrative reviews and theoretical papers are welcomed. Potential topics will address advances in comprehensive approaches that improve patients' outcomes.

Potential topics include, but are not limited to:

- ▶ Attenuation of systemic inflammation and prevention and management of related sequelae and infection
- ▶ Addressing causative factors in sepsis and multiple organ dysfunction, including oxidative stress, immune and endothelial dysfunction, and neuroendocrine derangements
- ▶ Stress response and person-centered care in critical illness
- ▶ Recent advances in invasive and less-invasive organ system support
- ▶ Patients positioning and mobility
- ▶ Nutritional management
- ▶ Patient communication and neurocognitive rehabilitation
- ▶ Assessment and management of pain, analgesia sedation, and delirium
- ▶ Assessment and support of sleep and circadian rhythmicity
- ▶ Management of environmental stressors (noise, light, unit environment, etc.)
- ▶ Supportive and palliative care
- ▶ Family-centered care
- ▶ Psychosocial support, spiritual support, and nonpharmacologic management of anxiety and stress (e.g., music, relaxation, imagery, etc.)
- ▶ Interdisciplinary collaboration, and education in critical care
- ▶ Prevention and management of longer term effects of critical illness
- ▶ Intervention bundling

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/critical.care/pppo/>.

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