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Preface

Update in Neuroanesthesia—An Anesthesiology Clinics Issue Affiliated with SNACC

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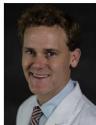
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Editor in Chief

Neuroanesthesiology has a long history as the essence of the practice of anesthesiology, altering the brain to allow surgery and supporting systemic physiology to support the brain. As such, the field has evolved significantly from the era of finger on the pulse and giving urea for intraoperative brain edema. We have dealt with many historic issues, which have included induced hypotension, venous air embolism, circulatory arrest, neuroprotection, measurement and maintenance of cerebral and spinal cord blood flow, neural mechanisms of anesthesia, pain management, and neurotoxicity. Many of these transitions have been well reviewed in two historical pieces on the history of Society for Neuroscience in Anesthesiology and Critical Care (SNACC), one by Albin at 25 years1 and one by Kofke at 40 years of SNACC.2 This history indicates that the field is serially changing as well, demonstrated by a series of annual reviews by Pasternak and Lanier,3—13 such that periodic reviews such as this issue of Anesthesiology Clinics are needed and welcomed.

This issue of Anesthesiology Clinics provides a timely update of several topics relevant to Neuroanesthesiology. Notably, all of the authors are members of the SNACC, and all of the editors are present or past members of the SNACC board of directors. Although the issue has not undergone review for formal endorsement by SNACC, it is nonetheless justifiably considered to be SNACC affiliated with approval of the SNACC board of directors for this designation.

In this issue, we review recent advances in the broad areas of basic neuroscience, clinical anesthesia practice, intraoperative and critical care monitoring, and aspects of neurocritical care. Within these broad areas, readers will find topics addressing anesthetic action, neuropathophysiology, cerebral blood flow, chronic pain, anesthesia for endovascular management of stroke, multimodality monitoring, brain oxygen monitoring, traumatic brain injury, subarachnoid hemorrhage, and neuromuscular diseases.

Although not a fully comprehensive review of neuroanesthesiology, this issue of Anesthesiology Clinics should provide an authoritative resource on some of the most important aspects of the major areas that comprise and define neuroanesthesiology: neuroscience, clinical anesthesia for neurosurgery and neuroradiology, neuromonitoring, and neurocritical care.

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