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Goal directed fluid therapy in neurosurgery

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The aim of fluid administration in neurosurgery patients is to maintain adequate cerebral flow and oxygenation. Too much or too less fluid infusion can be detrimental for the patient outcome. The goal directed fluid management in major surgery and critically patient has been extensively studied and generally guided by haemodynamic monitoring. The same principles may not be applicable to in all neurosurgery patients, as cerebral perfusion physiology depends

on many factors. With this background we did a concise review of neurophysiology, guidelines and recent clinical trials for goal directed fluid therapy in neurosurgery patients. In this review, we found current understanding of neurophysiology suggests normovolemia approach for most of the neurosurgery patients. But the evidence are inconclusive for the measurable end points against which fluid can be titrated.

Biography

Debendra Kumar Tripathy has completed his under graduation from Sambalpur University and has completed his post-graduation in anaesthesiology from National Board of Examination, New Delhi. He is working as additional Professor at AIIMS Rishikesh a premier Medical Institute. He has published more than 18 papers in reputed journals and has been faculty in more than 60 conference and workshops. He has also served as vice president, secretary and treasurer of Indian Society of Anaesthesiology, Pondicherry State.

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