Cerebral microdialysis as a tool for neuromonitoring following traumatic brain injury

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Record Status
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Citation

Authors' objectives
The purpose of this report is to summarize current literature on the efficacy and safety of cerebral microdialysis (CMD) - a method for sampling biochemical markers of secondary brain damage from cerebral interstitial tissue fluid, among traumatic brain injury (TBI) patients.

Authors' conclusions
There is some evidence in these studies that cerebral metabolic abnormalities revealed by CMD may correlate with evidence of certain potential causes of cerebral ischemia and with adverse clinical outcomes. The available literature does not provide sufficient proof of the efficacy of CMD as a predictor of clinical outcomes to justify its introduction as a clinical monitoring procedure in TBI patients. It has yet to be evaluated using established methods for evaluation of a diagnostic modality. Thus, while CMD may be a procedure with some research promise, it is not yet a clinically applicable tool.

Project page URL
http://upload.mcgill.ca/tau/CEREBRAL_MICRODIALYSIS_FINAL.pdf

Indexing Status
Subject indexing assigned by CRD

MeSH
Brain; Brain Injuries /diagnosis; Costs and Cost Analysis; Microdialysis; Monitoring, Physiologic

Language Published
English

Country of organisation
Canada

Province or state
Quebec

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AccessionNumber
32005001150