Safety and efficacy of desflurane during low flow anaesthesia

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Abstract

Desflurane can be used safely and efficiently in low flow anaesthesia. Due to its pharmacokinetic and pharmacodynamic properties, especially low tissue solubility, low potency, and high in vitro and in vivo stability, we can consider desflurane an inhalational anaesthetic especially designed for low flow anaesthesia. Its anaesthesia is characterized by good maintenance and the fastest recovery of all inhalational anaesthetics. It also incorporates many of the desirable characteristics possessed by other potent inhaled anaesthetics. But desflurane deviates from the ideal anaesthetic by being pungent, its capacity to produce cardiovascular stimulation, its need for a special vaporizer, and also its use is costly except if used in low flow which on the other hand requires well-equipped anaesthesia machine.

Keywords
Anaesthesia, Low Flow, Desflurane, Sevoflurane, Isoflurane,