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Title: Stable anesthesia with alternative to opioids: Are ketamine and magnesium helpful to stabilize hemodynamics during surgery? A systematic review and meta-analyses of randomized controlled trials

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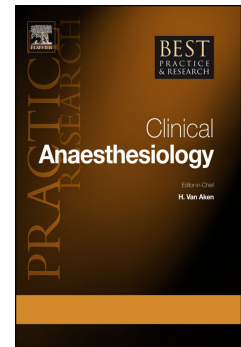
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Title: Stable anesthesia with alternative to opioids: Are ketamine and magnesium helpful to stabilize hemodynamics during surgery? A systematic review and meta-analyses of randomized controlled trials.

Running title: Ketamine and magnesium in postoperative pain

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Authors contributions: PF designed the study. PF and JC, collected, selected and performed the analyses, the interpretation, prepared the manuscript and approved the final version.

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Practice points: Ketamine and magnesium, differently but consistently, both reduces hemodynamic variability during surgery, and may be seen as complementary to provide stable anesthesia.

Research agenda bullet points: The association of ketamine and magnesium to control the sympathetic response to surgery and to improve postoperative analgesia, in the context of opioid-free anesthesia, merits additional investigations.

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