

The Predictive Value of Baseline Pulse Oximeter Perfusion Index on the Incidence of Hypotension During Balanced General Anesthesia Induction

Brian Rainier T Herradura, MD, Beverly Anne P Portugal, MD, Olivia C. Flores, MD

University of the East Ramon Magsaysay
Memorial Medical Center Inc
Aurora Blvd, Quezon City, 1113, Philippines



Abstract

Hypotension is a common occurrence during general anesthesia induction. Perfusion Index (PI) has been used as a measure of systemic vascular resistance and was shown to predict hypotension after regional anesthesia and propofol induction.

This study aims to determine whether baseline PI can predict hypotension during balanced general anesthesia induction and determine a cut-off value where hypotension is expected to occur.

Methods: Thirty-five ASA I/II adults who will undergo elective surgery under general anesthesia were enrolled. Heart rate, blood pressure and PI were measured every minute from baseline to 5 minutes following induction and 10 minutes after endotracheal intubation. Hypotension was defined as fall in systolic BP (SBP) by >30% from baseline and/or mean arterial pressure (MAP) to <60 mm Hg. Severe hypotension (MAP of <55 mm Hg) was treated.

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Biography:

Brian Rainier T. Herradura, MD currently serves as the chief resident of the UERMMMCM Department of Anesthesiology and Pain Medicine residency training program. He was a recent finalist in the research paper oral presentation of the Philippine Society of Anesthesiologists and the International Symposium for Ultrasound Regional Anesthesia Biennial Congress last November 2019 published in journals with international editorial boards, and over 80 abstracts.