

Transcutaneous PO₂ poorly estimates arterial PO₂ in adults during anesthesia

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Keywords: Equipment, monitoring, oxygen, oxygen tension, arterial, transcutaneous

Abstract

We compared values of P_aO₂ and transcutaneous PO₂ in 21 adult patients during anesthesia. In 282 simultaneous determinations during anesthetic periods of 3–10 h, transcutaneous PO₂ was a poor predictor of absolute P_aO₂ and changes in P_aO₂. Transcutaneous PO₂ monitoring in adults during anesthesia is of unproven value.

Introduction

Gas exchange through the skin was first demonstrated experimentally in 1851 (9). One hundred years later, the measurement of respiratory gases through the skin was accomplished (1). The measurement of transcutaneous PO₂ (T_sPO₂) has become accepted as a useful tool for the management of the sick neonate (2, 12). Investigators, using a variety of transcutaneous sensors, have also suggested that frequent T_sPO₂ measurements can provide important information on P_aO₂ values and P_aO₂ trends in adults (5, 7, 14, 16, 18, 20). Several reports have found T_sPO₂ monitoring of adults under anesthesia to be valid and useful and have recommended their routine use in the operating room (3, 13, 17, 9). By contrast, Knill *et al.* (8) found non-invasive oximetry to be a more suitable monitor of arterial oxygenation than T_sPO₂. The

object of this study was to better define the relationship between arterial and transcutaneous oxygen tensions during the perioperative period in adult patients.

Methods and materials

After approval of the research protocol by the Institutional Review Board of the University of Utah Medical Center, 21 patients aged 21 to 75 years scheduled for elective surgery were entered into the study after giving written, informed consent. Patients were studied in the operating room and the recovery room during and after general anesthesia. The anesthetic drugs were chosen at the discretion of the attending anesthesiologist with the exception that no patient received halothane.

On to each patient were placed two transcutaneous oxygen sensors; each sensor was connected to an identical monitor (Critikon Model 8030 Oxygen Monitor, Critikon Inc, Tampa, Flor-

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