

## Transcutaneous PO<sub>2</sub> poorly estimates arterial PO<sub>2</sub> in adults during anesthesia

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

### Abstract

We compared values of P<sub>a</sub>O<sub>2</sub> and transcutaneous PO<sub>2</sub> in 21 adult patients during anesthesia. In 282 simultaneous determinations during anesthetic periods of 3–10 h, transcutaneous PO<sub>2</sub> was a poor predictor of absolute P<sub>a</sub>O<sub>2</sub> and changes in P<sub>a</sub>O<sub>2</sub>. Transcutaneous PO<sub>2</sub> 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 PO<sub>2</sub> (T<sub>s</sub>PO<sub>2</sub>) 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<sub>s</sub>PO<sub>2</sub> measurements can provide important information on P<sub>a</sub>O<sub>2</sub> values and P<sub>a</sub>O<sub>2</sub> trends in adults (5, 7, 14, 16, 18, 20). Several reports have found T<sub>s</sub>PO<sub>2</sub> 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<sub>s</sub>PO<sub>2</sub>. 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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# Transcutaneous Po<sub>2</sub>

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