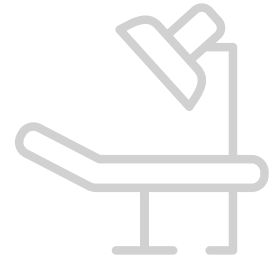


# Anesthesiology Publications featuring Sentec's Transcutaneous Monitoring System

At Sentec, we believe research and clinical evidence is a critical component to building effective noninvasive technology. Below is a library of published research for you to explore that highlights the impact our Transcutaneous Monitoring System (TCM) can have when providing less invasive care in anesthesiology.



**Adult** | Pediatric & Neonatal



Chaudhury, S., et al. (2014). The Use of a Transcutaneous CO<sub>2</sub> Monitor During Moderate Sedation in Oral and Maxillofacial Surgery. In *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology* (Vol. 117, e331).



LeRiger, M., et al. (2012). Elective use of high frequency oscillatory ventilation with transcutaneous carbon dioxide monitoring during thoracoscopic diaphragmatic hernia repair. *ANAESTH, PAIN & INTENSIVE CARE*, 16(3), 287-292.



Aguirre, J., et al. (2011). Transcutaneous continuous carbon dioxide tension monitoring improves ventilation state in combined regional anaesthesia and conscious sedation during shoulder surgery. In *30th Annual European Society for Regional Anaesthesia Congress*.



Sondore, A., et al. (2010). Respiratory monitoring in nonintubated anaesthetized patients during day-case short gynaecological procedures by the combined pulse oximetry and cutaneous capnography. *American Society of Anesthesiologists Annual Meeting*.



Trottier, S., & Blackburn, M. (2009). Transcutaneous Carbon Dioxide Monitoring During Percutaneous Tracheostomy. In *Society of Critical Care Medicine*.



Watts, T. (2009). *The effect of a blindet format professional development program for perianesthesia nurses at an orthopedic speciality hospital in central Ohio on the rate of patient hypercapnia and post-anesthesia care unit length of stay.*



Arora, P., et al. (2007). Transcutaneous and End-Tidal Carbondioxide Monitoring During Laproscopic Bariatric Surgery. In *American Society Anesthesiologists, Annual Meeting* (Vol. A439).



Baciarello, M., et al. (2006). Transcutaneous Carbon Dioxide Monitoring in Spontaneously-Breathing Intensive Care Unit Patients. In *American Society of Anesthesiologists Annual Meeting* (Vol. A476).



Schumacher, P. M., et al. (2006). Dynamic Properties of a New Transcutaneous CO2 Sensor: Fast Enough For Early Detection of Apnea? In *American Society Anesthesiologists, Annual Meeting.*



Zasa, M., et al. (2006). *Transcutaneous Carbon Dioxide Monitoring During Controlled Mechanical Ventilation* (Vol. A480).



Johnson, D. C., et al. (2005). *Transcutaneous PCO<sub>2</sub> Monitoring in A Ventilator Weaning Unit*. In *American Thoracic Society, Annual Meeting*.



Chhajed, P. N., et al. (2004). *Comparison of Cutaneous Carbon Dioxide Tension and Oxygen Saturation Measurements Using A New Combined Digital Sensor with Arterial Blood Gas Values*. In *American Association for Respiratory Care, Annual Meeting*.



Chhajed, P. N., et al. (2004). *Comparison of Cutaneous Carbon Dioxide Tension and Oxygen Saturation Measurements Using A New Combined Digital Sensor with Arterial Blood Gas Values*. In *American Thoracic Society, Annual Meeting*.



Chhajed, P. N., et al. (2004). *Validation of a New Combined Digital Transcutaneous Carbon Dioxide Tension and Oximetry Monitor*. In *American Thoracic Society International Conference* (Vol. 804).



Chhajed, P. N., et al. (2004). *Quantification of Hypoventilation By Carbon Dioxide Tension Measurement During Flexible Bronchoscopy*. In *World Congress for Bronchology*.



Chhajed, P. N., et al. (2004). *Cutaneous Carbon Dioxide Tension Monitoring Might Enhance Patient Safety During Bronchoscopy and Medical Thoracoscopy*. In *Chest*.



Chhajed, P. N., et al. (2004). *Quantification of Hypoventilation By Carbon Dioxide Tension Measurement During Flexible Bronchoscopy*. In *European Respiratory Society, Annual Meeting*.



Heuss, L. T., et al. (2004). *Patient Surveillance With a New Combined Transcutaneous POX and PCO<sub>2</sub> Single Ear Sensor "V-Sign™" During Colonoscopies*. In *DDW*.



Hayoz, J., et al. (2002). *Combined Pulse Oximetry and Carbon Dioxide Tension Ear Sensor in Adult Patients Early After Cardiac Surgery*. In *Annual Meeting of the European Association of Cardiothoracic Anaesthesiologists*.

Adult **Pediatric & Neonatal**



Chris Humston, A. M., et al. (2019). Non- invasive carbon dioxide monitoring in patients with cystic fibrosis during general anesthesia: end-tidal versus transcutaneous techniques. In *Pediatric Anesthesiology Meeting*. Houston, TX.



Debra Don, B. O., et al. (2019). Transcutaneous CO2 Monitoring in Children Undergoing Adenotonsillectomy. In *American Society of Pediatric Otolaryngology*.



Jasiewicz, R., et al. (2017). *TcCO2 Rather than EtCO2, is a Superior Measure of PvCO2 in the Infant Population*. SPA-AAP Pediatric Anesthesiology 2017.



Nelsen, D., et al. (2016). Utilizing Transcutaneous Carbon Dioxide Monitoring. ASA 2016.