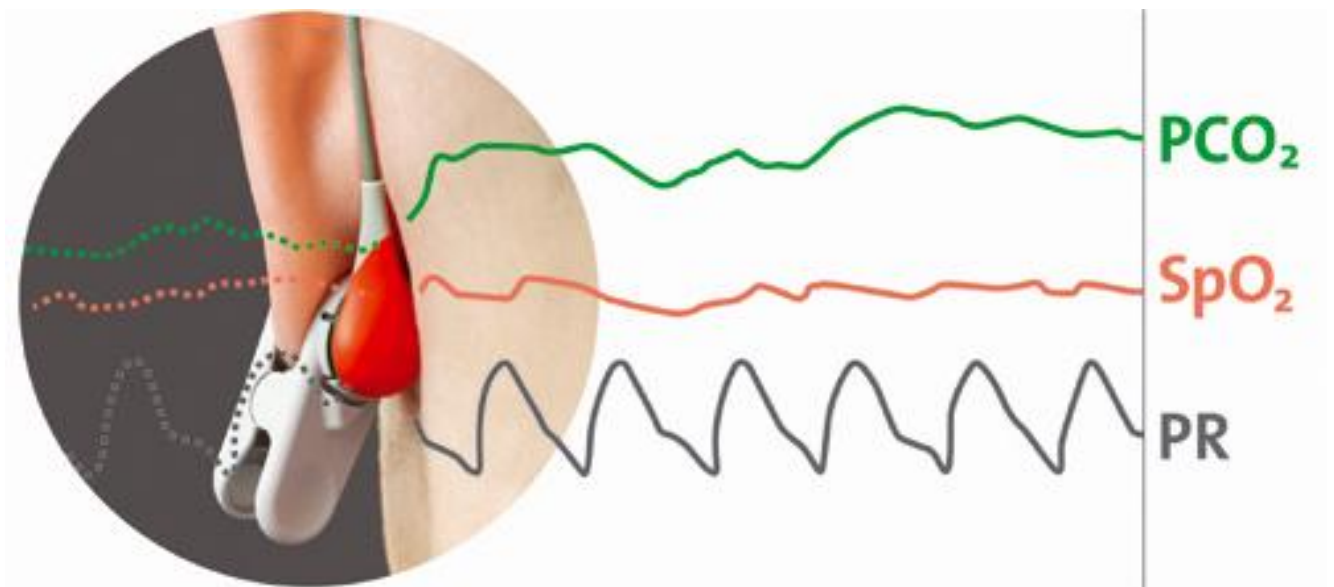


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Single Sensor Monitoring

A new dimension in non-invasive and continuous patient monitoring.



Imagine the possibilities!

Clinical Studies List

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A. Reviewed and Published Papers

Published in 2006

Accepted for publication in Journal of Minimal Access Surgery

[Non-invasive monitoring of PaCO₂ during one-lung ventilation and minimal access surgery in adults: end-tidal versus transcutaneous techniques](#)

Paul Cox P, Tobias JD

University of Missouri School of Medicine¹ and the Departments of Anesthesiology² and Pediatrics³, University of Missouri, Columbia, Missouri, USA

Arch Bronconeumol. 2006 May;42(5):246-51. (PMID: 16740241 [PubMed - indexed for MEDLINE])

[Transcutaneous measurement of partial pressure of carbon dioxide and oxygen saturation: validation of the SenTec monitor](#)

Domingo Ch, Canturri E, Lujan M, Moreno A, Espuelas H, Marin A.

Servei de Pneumologia, Corporacio Sanitaria Parc Tauli, Sabadell, Barcelona, Espana. cdomingo@cspt.es

Arch Bronconeumol. 2006 May;42(5):225-9. (PMID: 16740237 [PubMed - indexed for MEDLINE])

[Usefulness of transcutaneous carbon dioxide pressure monitoring to measure blood gases in adults hospitalized for respiratory disease](#)

Herrejon A, Inchaurreaga I, Palop J, Ponce S, Peris R, Terradez M, Blanquer R.

Servicio de Neumologia, Hospital Universitario Dr. Peset, Valencia, Espana. herrejon_alb@gva.es

Eur Respir J. 2006 Aug;28(2):386-90. Epub 2006 Apr 26. (16641122 [PubMed - in process])

[Measurement of combined oximetry and cutaneous capnography during flexible bronchoscopy](#)

Chhajed PN, Rajasekaran R, Kaegi B, Chhajed TP, Pflimlin E, Leuppi J, and Tamm M.

Pulmonary Medicine, University Hospital Basel, Petersgraben 4, CH-4301 Basel, Switzerland

Intensive Care Med. 2006 Feb;32(2):309-12. Epub 2006 Jan 31. (PMID: 16450093 [PubMed - in process])

[Transcutaneous arterial carbon dioxide pressure monitoring in critically ill adult patients.](#)

Rodriguez P, Lellouche F, Aboab J, Buisson CB, Brochard L

Faculte Medicine, Universite Paris XII, 94010, Creteil Cedex, France.

Anesthesiology. 2006 Apr;104(4):701-7. (PMID: 16571965 [PubMed - indexed for MEDLINE])

[An evaluation of transcutaneous carbon dioxide partial pressure monitoring during apnea testing in brain-dead patients.](#)

Vivien B, Marmion F, Roche S, Devilliers C, Langeron O, Coriat P, and Riou B

Department of Anesthesiology, Centre Hospitalier Universitaire Pitie-Salpetriere, Assistance Publique-Hopitaux de Paris, Paris, France.

Published in 2005

CHEST 2005; 127:585–588 (PMID: 15706000 [PubMed - indexed for MEDLINE])

[Detection of Hypoventilation During Thoracoscopy: Combined Cutaneous Carbon Dioxide Tension and Oximetry Monitoring With a New Digital Sensor](#)

Chhajed PN, Kaegi B, Rajasekaran R, and Tamm M.
Pulmonary Medicine, University Hospital Basel, Petersgraben 4, CH-4301 Basel, Switzerland

Respiration. 2005 Aug 30; [Epub ahead of print] (PMID: 16131790 [PubMed - as supplied by publisher])

[\(Un\)Explained Hyperventilation](#)

Chhajed PN, Langewitz W, and Tamm M.
Divisions of Respiratory Medicine and Psychosomatic Medicine, University Hospital Basel, Basel, Switzerland.

International Review of Patient Care; http://www.irpcare.com/articles/PAC004_053_sentec.htm

[Combined oximetry and cutaneous capnometry](#)

Chhajed PN
Divisions of Respiratory Medicine, University Hospital Basel, Basel, Switzerland.

Published in 2004

Curr Opin Anaesthesiol. 2004 Dec;17(6):521-5. (PMID: 17031089 [PubMed - in process])

[Cutaneous carbon dioxide monitoring in adults.](#)

Chhajed PN, Heuss LT, and Tamm M.
Division of Respiratory Medicine and Division of Gastroenterology, University Hospital, Basel, Switzerland
Institute of Pulmonology, Medical Research & Development, Mumbai, India.

Digestion. 2004;70(3):152-8. Epub 2004 Oct 12. (PMID: 15479975 [PubMed - indexed for MEDLINE])

[Combined pulse oximetry/cutaneous carbon dioxide tension monitoring during colonoscopies: pilot study with a smart ear clip.](#)

Heuss LT, Chhajed PN, Schnieper P, Hirt T, and Beglinger C
Department of Gastroenterology and Division of Respiratory Medicine, University Hospital, Basel, Switzerland.

J Clin Monit Comput. 2004 Apr;18(2):75-9. (PMID: 15362268 [PubMed - indexed for MEDLINE])

[Performance of a digital PCO2/SPO2 ear sensor.](#)

Kocher S, Rohling R, Tschupp A.
SenTec Inc., Ringstrasse 39, CH-4106 Therwil, Switzerland.

Published in 2003

Anesth Analg. 2003 Jan;96(1):82-4. (PMID: 12505928 [PubMed - indexed for MEDLINE])

[A combined ear sensor for pulse oximetry and carbon dioxide tension monitoring: accuracy in critically ill children.](#)

Tschupp A, Fanconi S.
SenTec Inc., Therwil, Switzerland.

Unpublished, SenTec internal document

[Accuracy of pulseoximeters with profound hypoxia and transcutaneous PCO2 sensor](#)

Principle Investigators: Serveringhaus J, Bickler P, Feiner JR, Hypoxia Research Laboratory, Department of Anesthesiology, USCF San Francisco, USA
SenTec representative: Hayoz J

B. Congress Contributions (Abstracts, Posters, Talks)

Presented in 2006

ASA 2006 Annual Meeting: Abstract #650729, Poster Presentation

[Dynamic properties of a new transcutaneous CO2 sensor: fast enough for early detection of apnea?](#)

Schumacher PM, Caruso ALG, Hartwich V, Luginbuehl M, Bouillon TW
Department of Anesthesiology, University Hospital Bern, Bern, Switzerland

ASA 2006 Annual Meeting: Abstract, Poster Presentation

[Transcutaneous Carbon Dioxide Monitoring in Spontaneously-Breathing Intensive Care Unit Patients](#)

Baciarello M, Squicciarini G, Gatti M, Malagutti G, Casati A
Department of Anesthesiology, Critical Care and Pain Medicine, University of Parma, Parma; Italy

ASA 2006 Annual Meeting: Abstract, Poster Presentation

[Transcutaneous Carbon Dioxide Monitoring during Controlled Mechanical Ventilation](#)

Zasa M, Leone S, Gatti M, Malagutti G, Ciciarella L
Department of Anesthesiology, Critical Care and Pain Medicine, University of Parma, Parma; Italy

Presented in 2005

ATS 2005, Abstract, Poster Presentation

[TRANSCUTANEOUS PCO₂ MONITORING IN A VENTILATOR WEANING UNIT](#)

R. Dalbec, R.R.T., S. Batool, M.D., Y. Levin, M.D., A. Riendeau, R.R.T., R.N., D.C. Johnson, M.D.
Spaulding Rehabilitation Hospital, Boston, MA, USA

ATS 2005, Abstract, Poster Presentation

[Transcutaneous CO₂ Partial Pressure Monitoring during apnea test for brain death diagnosis](#)

Rodriguez PO, Lellouche F, Brochard L,
Medical ICU, Henri Mondor Hospital, Créteil, France

ATS 2005, Abstract, Poster Presentation

[Transcutaneous CO₂ Partial Pressure Monitoring in critically ill patients](#)

Rodriguez PO, Lellouche F, Brun-Buisson C, Brochard L,
Medical ICU, Henri Mondor Hospital, Créteil, France

AARC 2005, Abstract, Open Forum – Monitoring 1

[Evaluation of a Transcutaneous CO₂ Monitor and Its Correlation to ABG PaCO₂ Measurements](#)

Rowley DD, Walsh BK, Barry Young B, Caruso FJ
Pulmonary Diagnostics and Respiratory Therapy Services, University of Virginia Health System, Charlottesville, Virginia, USA

APARC 2005, Abstract and Poster Presentation

[Optimization of Non-Invasive Ventilation Pressures using combined continuous oximetry and cutaneous carbon dioxide tension monitoring](#)

Chhajed PN, Gehrer S, Chhajed TP, Strobel I, Brutsche MH, Tamm M, Strobel W
Departement of Pulmonary Medicine and Pulmonary Cell Research Laboratory, Basel, Switzerland

Presented in 2004

Japanese Pediatrics Meeting 2004, Invited Lecture

[Importance of non-invasive pCO₂ and SpO₂ monitoring in Pediatrics](#)

Fanconi S,
University Hospital Lausanne, Departement of Pediatrics and Pediatric Surgery, 1011 Lausanne, Switzerland

European Society of Intensive Care 2004, Abstract & Poster Presentation

[Transcutaneous CO₂ Partial Pressure Monitoring in ICU patients](#)

Rodriguez PO, Lellouche F, Brun-Buisson C, Brochard L,
Medical ICU, Henri Mondor Hospital, Créteil, France

AARC 2004 and [ATS 2004](#), Abstract & Poster Presentation

[Comparison of cutaneous carbon dioxide tension and oxygen saturation measurements using a new combined digital sensor with arterial blood gas values](#)

Chhajed PN, Heuss LT, and Tamm M.

Division of Respiratory Medicine and Division of Gastroenterology, University Hospital, Basel, Switzerland

AARC 2004, Abstract & Poster Presentation

[\(Un\)explained Hyperventilation](#)

Chhajed PN, Langewitz W, and Tamm M.

Divisions of Respiratory Medicine and Psychosomatic Medicine, University Hospital Basel, Basel, Switzerland.

AARC 2004, Oral Presentation

[SenTec Digital Monitoring System](#)

J. Hayoz, Ph.D

SenTec AG, Ringstrasse 39, 4106 Therwil

CHEST 2004, Abstract, Poster Presentation

[Cutaneous carbon dioxide tension monitoring might enhance patient safety during bronchoscopy and medical thoracoscopy](#)

Chhajed PN, Rajasekaran R, Kaegi, B, Tamm M

Pulmonary Medicine, University Hospital Basel, Petersgraben 4, CH-4301 Basel, Switzerland

ERS 2004 and [WCB 2004](#), Abstract, Poster Presentation

[Quantification of hypoventilation by carbon dioxide tension measurement during flexible bronchoscopy](#)

Chhajed PN, Rajasekaran R, Kaegi, B, Tamm M

Pulmonary Medicine, University Hospital Basel, Petersgraben 4, CH-4301 Basel, Switzerland

ERS 2004, Abstract, Poster Presentation

[Use of a heated SpO2-PCO2 single sensor: comparison of results versus arterial blood gas measurements](#)

Darne C, Hattab A, Picard C, Lagonotte D, Naudin C, Viau F

Briis-sous-Forges, France

ATS 2004, Abstract, Poster Presentation

[Carbon Dioxide Tension Monitoring during Thoracoscopy](#)

Chhajed PN, Tamm M

Pulmonary Medicine, University Hospital Basel, Petersgraben 4, CH-4301 Basel, Switzerland

DDW 04, Abstract, Oral Presentation

DDW 04, Abstract, Oral Presentation

Heuss LT, Schnieper P, Hayoz J, Beglinger C

[Patient Surveillance with a new combined POX and PCO2 Single Ear Sensor "V-Sign™" during colonoscopies](#)

Presented in 2003

ISIAPO 2003, Abstract, Poster Presentation

[Worlds first combined digital pulse oximetry and carbon dioxide tension ear sensor](#)

Hayoz J, Rohling R, Tschupp A
SenTec AG, Ringstrasse 39, 4106 Therwil

Presented in 2002

EACTA 2002, Abstract, Oral Presentation

[Combined pulse oximetry and carbon dioxide tension ear sensor in adult patients early after cardiac surgery](#)

Hayoz J, Schmid ER, Schmidlin D, Tschupp A
Div. of Cardiovascular Anaesthesia, University Hospital, Zurich, Switzerland
SenTec AG, Ringstrasse 39, 4106 Therwil, Switzerland

Presented in 2001

EWCI 2001, Abstract, Oral Presentation

[V-Sign™, a digital pulse oximetry and carbon dioxide tension ear sensor](#)

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