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<u>Author</u> ↑	<u>Title</u>	<u>Year</u>	<u>Publication</u>	<u>Volume</u>	<u>Pages</u>	<u>Notes</u>
Amaddeo, A.; Fauroux, B.	Oxygen and carbon dioxide monitoring during sleep	2015	Paediatric Respiratory Reviews			Sentec, Application <i>Pediatrics</i> ; Sentec, ApplicationSleepLaboratory; SenTec, Application_Pneumology
Bersanini, C.; Khirani, S.; Ramirez, A.; Lofaso, F.; Aubertin, G.; Beydon, N.; Mayer, M.; Maincent, K.; Boule, M.; Fauroux, B.	Nocturnal hypoxaemia and hypercapnia in children with neuromuscular disorders	2012	The European Respiratory Journal : Official Journal of the European Society for Clinical Respiratory Physiology	39	1206-1212	Sentec, Application <i>Pneumology</i> ; Sentec, Application <i>Pediatrics</i> ; Sentec, Application_SleepLaboratory
Bourdin, G.; Nesme, P.; Stagnara, A.; Girerd, N.; Depagne, C.; Guerin, J.C.	Evaluation of Interest of Nocturnal Transcutaneous PCO ₂ (PtcCO ₂) Monitoring in Chronic Respiratory Failure (CRF)	2008	European Respiratory Society, Annual Meeting			Sentec, Application_Pneumology
Caldarelli, V.; Borel, J.C.; Khirani, S.; Ramirez, A.; Cutrera, R.; Pepin, J.-L.; Fauroux, B.	Polygraphic respiratory events during sleep with noninvasive ventilation in children: description, prevalence, and clinical consequences	2013	Intensive Care Medicine	39	739-746	Sentec, Application <i>Pneumology</i> ; PMID:23344829; Sentec, Application <i>Pediatrics</i> ; Sentec, Application_SleepLaboratory
Cervantes, P.; Laplaud, D.; Huret, L.; Arboit, F.; Hermann, J.; Raymond, S.; Tourmente, F.	Use of Transcutaneous PCO ₂ for the Home Care Follow-Up of Pulmonary Disease Patients	2007	European Respiratory Society, Annual Meeting			Sentec, Application <i>Pneumology</i> ; Sentec, ApplicationHome
Chaudhari, P.; Kate, A.; Baty, F.; Leuppi, J.; Chhajed, P.	VentCheck: Spot measurement of combined oximetry & cutaneous carbon dioxide to screen for type II respiratory failure in respiratory illness	2011	European Respiratory Society, Annual Meeting	P907		Sentec, Application <i>Pneumology</i> ; Sentec, ApplicationAccuracy
Chhajed, P.N.; Gehrer, S.; Chhajed, T.P.; Strobel, I.; Brutsche, M.H.; Tamm, M.; Strobel, W.	Optimization of Non-Invasive Ventilation Pressures Using Combined Continuous Oximetry and Cutaneous Carbon Dioxide Tension Monitoring	2005	Swiss Medical Weekly			Sentec, Application_Pneumology
Chhajed, P.N.; Grisch, D.; Baty,	Measurement of Cutaneous Carbon Dioxide	2008	American Thoracic Society, Annual Meeting			Sentec, Application <i>ICU</i> ; Sentec, ApplicationPneumology; Sentec,

F.; Azzola, A.; Tamm, M.	Tension During Non-Invasive Ventilation and Extubation in the Intensive Care Unit						<i>ApplicationCriticalCare; Sentec, ApplicationAccuracy</i>
Chhaged, P.N.; Langewitz, W.; Tamm, M.	(Un) explained hyperventilation	2006	Respiration; International Review of Thoracic Diseases	73	825		Sentec, CaseReports; Sentec, Application_Pneumology
Chhaged, P.N.; Langewitz, W.; Tamm, M.	(Un)Explained Hyperventilation	2004	American Association for Respiratory Care, Annual Meeting				Sentec, Application_Pneumology; Sentec, CaseReports
Chhaged, P.N.; Rajasekaran, B.; Kaegi, B.; Tamm, M.	Quantification of Hypoventilation By Carbon Dioxide Tension Measurement During Flexible Bronchoscopy	2004	World Congress for Bronchology				Sentec, ApplicationPneumology; Sentec, ApplicationProceduralSedation; Sentec, Application_Anaesthesia
Chhaged, P.N.; Rajasekaran, R.; Kaegi, B.; Tamm, M.	Cutaneous Carbon Dioxide Tension Monitoring Might Enhance Patient Safety During Bronchoscopy and Medical Thoracoscopy	2004	Chest				Sentec, ApplicationPneumology; Sentec, ApplicationProceduralSedation; Sentec, Application_Anaesthesia
Chhaged, P.N.; Rajasekaran, R.; Kaegi, B.; Tamm, M.	Quantification of Hypoventilation By Carbon Dioxide Tension Measurement During Flexible Bronchoscopy	2004	European Respiratory Society, Annual Meeting				Sentec, ApplicationPneumology; Sentec, ApplicationAnaesthesia; Sentec, Application_ProceduralSedation
Damy, T.; Burgel, P.-R.; Pepin, J.-L.; Boelle, P.-Y.; Cracowski, C.; Murriss-Espin, M.; Nove-Josserand, R.; Stremmer, N.; Simon, T.; Adnot, S.; Fauroux, B.	Pulmonary acceleration time to optimize the timing of lung transplant in cystic fibrosis	2012	Pulmonary Circulation	2	75-83		Sentec, Application_Pneumology
David, T.; Stagnara, A.	Reproducibility of PtcCO2 in Pediatrics	2006	European Respiratory Care Association Congress				Sentec, ApplicationPneumology; Sentec, ApplicationSleepLaboratory; Sentec, Application_Pediatry
Dominguez, A.	Kinésithérapie respiratoire et syndrome d'hyperventilation	2007	Kinésithérapie, la Revue	7	20-22		Sentec, Application_Pneumology; Sentec, CaseReports
Douglas, C.; Johnson, M.D.	Detection of Hypoventilation	2005	Chest				Sentec, ApplicationPneumology; Sentec, ApplicationSleepLaboratory
Ernst, S.;Leuppi, J. D.; Chhaged, P. N.; Miedinger, D.	Are there lower blood CO2-levels in asthmatic patients?	2011	European Respiratory Society, Annual Meeting	P4927			Sentec, Application_Pneumology
Fauroux, B.; Krivec, U.; Aubertin, G.; Clement, A.; Paiva, R.	Carbon Dioxide Monitoring During Long Term Noninvasive	2009	Am J Respir Crit Care Med	179	A3046		Sentec, ApplicationPediatry; Sentec, ApplicationPneumology; Sentec, ApplicationHome; PMID:19172246, Sentec, ApplicationSleepLaboratory

	Ventilation in Children					
Fauroux, B.; Pepin, J.-L.; Boelle, P.-Y.; Cracowski, C.; Murriss-Espin, M.; Nove-Josserand, R.; Stremler, N.; Simon, T.; Burgel, P.-R.	Sleep quality and nocturnal hypoxaemia and hypercapnia in children and young adults with cystic fibrosis	2012	Archives of Disease in Childhood	97	960-966	PMID:22984185; Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPneumology; Sentec, Application_Pediatry
Felemban, O.; Leroux, K.; Aubertin, G.; Miandy, F.; Damagnez, F.; Amorim, B.; Ramirez, A.; Fauroux, B.	Value of gas exchange recording at home in children receiving non-invasive ventilation	2011	Pediatric Pulmonology	46	802-808	PMID:21337731; Sentec, ApplicationPneumology; Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPediatry; Sentec, ApplicationHome
Fernandez de Miguel, S.; Gaboli, M.; Gonzalez-Celador, R.; Gomez de Quero, P.; Murga Herrero, V.; Sanchez Granados, J.M.; Payo Perez, R.	[Validation of the transcutaneous carbon dioxide tension measurements in critical paediatric patients]	2010	Anales de Pediatria (Barcelona, Spain : 2003)	72	165-171	Sentec, ApplicationAccuracy; Sentec, ApplicationPneumology; Sentec, ApplicationPICU; Sentec, ApplicationCriticalCare
Gal, S.; Riskin, A.; Chistyakov, I.; Shifman, N.; Srugo, I.; Kugelman, A.	Transcutaneous PCO2 monitoring in infants hospitalized with viral bronchiolitis	2014	European Journal of Pediatrics			Sentec, ApplicationPediatry; Sentec, ApplicationPneumology; Sentec, Application_Accuracy
Gibson, R.A.; Alapat P.M.	The Effectiveness of Transcutaneous Capnometry in Measuring PaCO2 to Aid in Diagnosing Patients with Obesity Hypoventilation Syndrome	2010	Baylor College of Medicine, Houston			Sentec, Application_Pneumology
Gloeckl, R.; Halle, M.; Kenn, K.	Interval versus continuous training in lung transplant candidates: A randomized trial	2012	The Journal of Heart and Lung Transplantation : the Official Publication of the International Society for Heart Transplantation	31	934-941	Sentec, Application_Pneumology
Heinzelmann, I.; Gloeckl, R.; Seeberg, S.; Damisch, T.; Stegemann, A.; Plagmann, M.; Jerrentrup, A.; Kenn, K.	Changes in pCO2 levels during 6-minute walking test in patients with very severe COPD	2014				Sentec, Application_Pneumology
Herrejon, A.; Inchaurreaga, I.; Palop, J.; Ponce, S.; Peris, R.; Terradez, M.; Blanquer, R.	Usefulness of transcutaneous carbon dioxide pressure monitoring to measure blood gases in adults hospitalized for	2006	Archivos de Bronconeumologia	42	225-229	Sentec, ApplicationAccuracy; Sentec, ApplicationPneumology

	respiratory disease					
Horvath, C.; Brutsche, M.; Baty, F.; Rüdiger, J.	Real-time measurement of transcutaneous PCO ₂ vs. arterial/venous PCO ₂ during non-invasive ventilation on the emergency department in subjects with severe respiratory failure – an observational study	2015	Pneumologie 2015	69	P26	Sentec, ApplicationAccuracy; Sentec, ApplicationEmergencyroom; SenTec, ApplicationPneumology; Sentec, ApplicationCriticalCare; Sentec, Application_ICU
Huttmann, S.E.; Windisch, W.; Storre, J.H.	Techniques for the measurement and monitoring of carbon dioxide in the blood	2014	Annals of the American Thoracic Society	11	645-652	Sentec, Application_Pneumology; Sentec, General
Kabitz, H.-J.; Walker, D.J.; Schwoerer, A.; Schlager, D.; Walterspacher, S.; Storre, J.H.; Roecker, K.; Windisch, W.; Verges, S.; Spengler, C.M.	Biometric approximation of diaphragmatic contractility during sustained hyperpnea	2011	Respiratory Physiology & Neurobiology	176	90-97	Sentec, Application_Pneumology
Krivec, U.; Quéera-Salva, M.; Aubertin, G.; Constant, I.; Clément, A.; Fauroux, B.	Nocturnal Hypoventilation is Associated With Poor Sleep Quality and Increased Pulse Rate Variability in Children	2009	European Respiratory Society, Annual Meeting			Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPediatry; Sentec, Application_Pneumology
Krivec, U.; Quera Salva, M.A.; Constant, I.; Ramirez, A.; Lofaso, F.; Pepin, J.-L.; Fauroux, B.	Nocturnal hypoxemia, but not hypercapnia, correlates with sleep quality in children	2012	Respiratory Care	57	1937-1944	PMID:22710148, Sentec, ApplicationPneumology; Sentec, ApplicationPediatry; Sentec, Application_SleepLaboratory
Lermuzeaux, M.; Meric, H.; Sauneuf, B.; Girard, S.; Normand, H.; Lofaso, F.; Terzi, N.	Superiority of transcutaneous CO ₂ over end-tidal CO ₂ measurement for monitoring respiratory failure in nonintubated patients: A pilot study	2016	Journal of Critical Care	31	150-156	PMID:26463320; SenTec, ApplicationPneumology; SenTecapplication accuracy; SenTecapplicationcritical care; Sentec, tcPCO ₂ vsEtCO ₂
Magnet, F.S.	[Transcutaneous PCO ₂ Monitoring Is Accurate For Assessing PaCO ₂ During Nocturnal Noninvasive Ventilation] Das transkutane CO ₂ -Monitoring bei der nächtlichen	2009	Albert-Ludwigs-Universität Freiburg im Breisgau – Doctoral thesis			Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy

	nicht-invasiven Beatmung (NIV)						
Miedinger, D.; Jochmann, A.; Schoenenberger, L.; Chhajed, P.N.; Leuppi, J.D.	Resting and post bronchial challenge testing carbon dioxide partial pressure in individuals with and without asthma	2012	PloS one	7	e32464	Sentec, Application_Pneumology	
Paiva, R.; Krivec, U.; Aubertin, G.; Clement, A.; Fauroux, B.	Carbon Dioxide Monitoring During Long Term Noninvasive Respiratory Support in Children	2009	European Respiratory Society, Annual Meeting			Sentec, ApplicationPneumology; Sentec, ApplicationPediatriy; Sentec, ApplicationHome; Sentec, ApplicationSleepLaboratory	
Paiva, R.; Krivec, U.; Aubertin, G.; Cohen, E.; Clement, A.; Fauroux, B.	Carbon dioxide monitoring during long-term noninvasive respiratory support in children	2009	Intensive Care Medicine	35	1068-1074	PMID:19172246, Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPediatriy; Sentec, ApplicationPneumology; Sentec, ApplicationHome; Sentec, Application_Accuracy; Sentec	
Priest, J.P.; Smallwood, C.D.; Arnold, J.	Agreement between transcutaneous and arterial carbon dioxide levels in a cohort of critically ill pediatric patients during high-frequency oscillatory ventilation	2012	American Association for Respiratory Care, Annual Meeting			Sentec, ApplicationPICU; Sentec, ApplicationCriticalCare; Sentec, ApplicationPediatriy; Sentec, ApplicationPneumology; Sentec, Application_Accuracy	
Ramirez, A.; Khirani, S.; Delord, V.; Aubertin, G.; Pepin, J.-L.; Fauroux, B.	Assessment of sleep quality by pulse wave amplitude and actigraphy in children with sleep-disordered breathing: evaluation at diagnosis and under non-invasive ventilation	2012	Sleep Breath			PMID:23065548, Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPediatriy; Sentec, Application_Pneumology	
Ruiz, Y.; Farrero, E.; Cordoba, A.; Gonzalez, N.; Dorca, J.; Prats, E.	Transcutaneous Carbon Dioxide Monitoring in Subjects With Acute Respiratory Failure and Severe Hypercapnia	2016	Respiratory Care			PMID:26786741; SenTec, ApplicationAccuracy; Sentec, ApplicationPneumology	
Sadot, E.; Gut, G.; Sivan, Y.	Alveolar ventilation in children during flexible bronchoscopy	2016	Pediatric Pulmonology			PMID:27061285; SenTec, ApplicationPneumology; Sentec, ApplicationProceduralSedation; Sentec, Application_Anaesthesia	
Schafroth Torok, S.; Leuppi, J.D.; Baty, F.; Tamm, M.; Chhajed, P.N.	Combined oximetry-cutaneous capnography in patients assessed for	2008	Chest	133	1421-1425	Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy	

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Schafroth Torok, S.; Leuppi, J.D.; Baty, F.; Tamm, M.; Chhajed, P.N.	Combined Oximetry and Cutaneous Capnography in Patients Assessed for Long Term Oxygen Therapy	2007	American Thoracic Society, Annual Meeting			Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy
Soon Kyu Lee, Dong-hyun Kim, Won Ah Choi, Yu Hui Won, Sun Mi Kim, Seong-Woong Kang	The Significance of Transcutaneous Continuous Overnight CO2 Monitoring in Determining Initial Mechanical Ventilator Application for Patients with Neuromuscular Disease	2012		36	126-132	Sentec, ApplicationPneumology; Sentec, ApplicationSleepLaboratory; ABG vs. tcPCO2; neuromuscular disease
Stegemann, A.; Glöckl, R.; Schönheit-Kenn, U.; Sczepanski, B.; Winterkamp, S.; Kenn K.	Effekte und Machbarkeit einer nicht-invasiven Beatmung bei hyperkapnischen Patienten mit Lungenfibrose	2014				Sentec, Application_Pneumology
Storre, J.H.; Huttmann, S.E.; Ekkernkamp, E.; Walterspacher, S.; Schmoor, C.; Dreher, M.; Windisch, W.	Oxygen supplementation in noninvasive home mechanical ventilation: the crucial roles of CO2 exhalation systems and leakages	2014	Respiratory Care	59	113-120	Sentec, ApplicationPneumology; Sentec, ApplicationHome
Storre, J.H.; Magnet, F.; Dreher, M.; Windisch, W.	Transcutaneous PCO2 Monitoring Is Accurate For Assessing PaCO2 During Nocturnal Noninvasive Ventilation	2010	Am. J. Respir. Crit. Care Med.	181	A3064	Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy; Sentec, Application_SleepLaboratory
Storre, J.H.; Magnet, F.S.; Dreher, M.; Windisch, W.	Transcutaneous monitoring as a replacement for arterial PCO(2) monitoring during nocturnal non-invasive ventilation	2011	Respiratory Medicine	105	143-150	Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy; Sentec, Application_SleepLaboratory
Storre, J.H.; Magnet, F.S.; Dreher, M.; Windisch, W.	Advantages of transcutaneous PCO2 monitoring over PaCO2 in chronic respiratory failure (CRF)	2010	European Respiratory Society, Annual Meeting			Sentec, ApplicationPneumology; Sentec, ApplicationAccuracy; Sentec, Application_SleepLaboratory
Storre, J.H.; Matrosovich, E.; Ekkernkamp, E.; Dreher, M.; Schmoor, C.; Windisch, W.	Impact of long-term target-volume noninvasive positive pressure ventilation on sleep quality	2012	European Respiratory Society, Annual Meeting			Sentec, ApplicationSleepLaboratory; Sentec, ApplicationPneumology; Sentec, Application_Home

