

Medasense List of Publications

Publications in Peer-Reviewed Journals

- 1. Monitoring the Nociception Level Intraoperatively - An Initial Experiences**
Pether Jildenstål¹, Katarina Hallén, Katarina Almskog, Johan Sand and Margareta Warren Stomberg.
[J Anest & Inten Care Med. 2018; 7\(2\): 555709](#)
- 2. The nociception level index (NOL) response to intubation and incision in patients undergoing video-assisted thoracoscopic surgery (VATS) with and without thoracic epidural analgesia. A pilot study.**
Laurent Bollag, Srdjan Jelacic, Carlos Delgado Upegui, Cynthia Wu, Philippe Richebe.
[F1000Research 2018, 7:875](#)
- 3. Validation of the PMD100™ and its NOL™ Index to detect nociception at different infusion regimen of remifentanil in patients under general anaesthesia**
Pierre-André Stöckle, Marco Julien, Rami Issa, Elizabeth Décary, Véronique Brulotte, Pierre Drolet, Margaret Henri, Madeleine Poirier, Jean-François Latulippe, Marc Dorais, Olivier Verdonck, Louis-Philippe Fortier, Philippe Richebé.
[Minerva Anesthesiologica, May 2018](#)
- 4. Preliminary intraoperative validation of the nociception level index: a noninvasive nociception monitor**
Ruth Edry, Vasile Recea, Yuri Dikust, Daniel I. Sessler.
[Anesthesiology July 2016, Vol.125, 193-203](#)
- 5. Ability of the Nociception Level (NOL), a multiparameter composite of autonomic signals, to detect noxious stimuli during propofol-remifentanil anesthesia**
Chris H. Martini, Martijn Boon, Suzanne J. L. Broens, Evelien F. Hekkelman, Lisanne A. Oudhoff, Anna Willemijn Buddeke, Albert Dahan.
[Anesthesiology Sept. 2015, Vol.123, 524-534](#)
- 6. Monitoring the Nociception Level – A multi-parameter approach**
Nir Ben-Israel, Mark Kliger, Galit Zuckerman, Yeshayahu Katz, Ruth Edry.
[Journal of Clinical Monitoring and Computing \(2013\) 27: 659](#)

7. **Differentiating between heat pain intensities: the combined effect of multiple autonomic parameters**

Treister Roi, Kliger Mark, Zuckerman Galit, Itay Goor Aryeh, Eisenberg Elon.

[PAIN. 2012 Sept.;153\(9\):1807-14](#)

Posters, Abstracts and Presentations

7. **Combined Intraoperative Anesthesia & Analgesia Monitoring Impact on Safety & Recovery: CINAAMON Interim Analysis**

Etienne Renaud-Roy, Philippe Richebé, Olivier Verdonck, Manon Choinière, Véronique Brulotte, Louis-Philippe Fortier.

[2018 CAS Annual Meeting, Montreal, Quebec, Canada, June 2018](#)

8. **Nol Index Response After Laryngoscopy Performed with Macintosh Blade Versus Glidescope™ Videolaryngoscope**

Jason McDevitt, Olivier Verdonck, Valerie Zaphiratos, Veronique Brulotte, Christian Loubert, Pierre A. Drolet, Louis-Philippe Fortier, Marie-Claude Guertin, Philippe Richebé.

[2018 CAS Annual Meeting, Montreal, Quebec, Canada, June 2018](#)

9. **Detection of Pain under General Anesthesia: Performance Assessment of the PMD-200**

Virginia Horne, Alex Friend, Max Breidstein, Borzoo Farhang.

[12th Annual New England Anesthesia Residents Conference \(NEARC\), Boston, Ma, USA, May 2018](#)

10. **O noua tehnica non-invaziva pentru monitorizarea durerii si optimizarea analgeziei intraoperatorii: indexul NOL**

Serban Bubenek, Ruth Edry.

[NOL technology symposia during SRATI congress, Sinaia, Romania, May 2018](#)

11. **Nociceptive monitoring during surgery during Mini-symposium: "Monitoring is our future"**

Albert Dahan.

[Leiden, The Netherlands, March, 2018](#)

12. **Missing a Piece? NOL™ (Nociception Level) Technology: Intraoperative Pain Monitoring for Optimizing Analgesia**

Ruth Edry, Daniel I. Sessler.

[ICISA 2017, Tel Aviv, Israel, Nov. 2017](#)

13. **Tailoring analgesia to patients' needs. The Nociception Level Index (NOL)**
Albert Dahan.
[3rd Symposium on Anesthesia, Organized by Hospital Da Luz, Lisbon, Portugal, Sept. 2017](#)
14. **Comment j'individualise l'analgésie périopératoire**
Philippe G. Richebe.
[SFAR Congress, Paris, France, Sept. 2017](#)
15. **Impact of different remifentanyl doses on the nociception level index response to intra-operative noxious stimuli**
Etienne Renaud-Roy, Pierre-André Stöckle, Olivier Verdonck, Louis-Philippe Fortier, Philippe Richebé.
[2017 CAS, Niagara Falls, ON, Canada, June 2017 \(pages 6-7\)](#)
16. **Impact of different remifentanyl doses on the Nociception Level (NOL) index response to intra-operative noxious stimuli**
Stöckle Pierre-André, Renaud-Roy Etienne, Maximos Sarah, Verdonck Olivier, Fortier Louis-Philippe, Richebé Philippe.
[Euroanaesthesia, Geneva, Switzerland, June 2017 \(page 41\)](#)
17. **NOL Index performance in patients with beta-blockers**
Ruth Edry, Vasile Recea, Yuri Dikust
[Euroanaesthesia, Geneva, Switzerland, June 2017 \(page 234\)](#)
18. **Physiologic Indicators for the assessment of acute pain: Recent evidence and new trends**
Céline Gélinas.
[Canadian Pain Society, May 2017 \(p. A36-A37\)](#)
19. **Quantified Analgesic Effect of Intraoperative 50% N₂O Inhalation by the NOL and ANI Nociception Indices**
Philippe G. Richebe, Elizabeth Decary, Rami Issa, Sarah Maximos, Louis-Philippe Fortier, Olivier Verdonck.
[ASA, Chicago, IL, USA, Oct. 2016](#)
20. **Nociception Level (NOL) index alteration after standardized nociceptive stimulus decreases with higher doses of remifentanyl**
Marco Julien, Elizabeth Décary, Rami Issa, Olivier Verdonck, Louis-Philippe Fortier, Philippe Richebé.
[ESA, London, UK, May 2016](#)

21. **Ability of the nociception level, a Multiparameter Composite of Autonomic Signals, to detect noxious stimuli during propofol-remifentanil anesthesia**
Chris Martini, Martijn Boon, Albert Dahan.
[ASA conference, San Diego, USA, Oct. 2015](#)

22. **The level of nociception (NOL) in thoracotomy patients with and without epidural analgesia**
Laurent Bollag, Srdjan Jelacic, Cynthia Wu, Philippe Richebé.
[EFIC Pain Congress, Vienna, Austria, Sept. 2015](#)

23. **Validation of nociception monitor – The NOL Index**
Ruth Edry, Vasile Recea, Yuri Dikust, Daniel I. Sessler.
[EuroAnesthesia, Germany, June 2015 \(1AP12-6, page 53\)](#)

24. **Objective assessment of spinal cord stimulation effectiveness on chronic radicular pain**
Nir Ben-Israel, Yariv Amos, Noam Racheli, Mark Kliger, Galit Zuckerman, Roi Treister, Elon Eisenberg.
[International Association for the Study of Pain Annual Meeting, Argentina, Oct. 2014](#)

25. **Objective measurement of pain levels in patients with radicular pain treated by spinal cord stimulation**
Nir Ben-Israel, Yariv Amos, Mark Kliger, Galit Zuckerman, Erica Suzan, Elon Eisenberg.
[American Academy of Pain Medicine Annual Meeting, AZ, US, Mar. 2014](#)

26. **Detection of noxious stimuli during general anesthesia using the NOL index for nociception level**
Edry Ruth, Kliger Mark, Zuckerman Galit, Racheli Noam, Katz Yeshayahu, Ben-Israel Nir.
[EuroAnesthesia, Barcelona, Spain, June 2013](#)

27. **Non-linear Multi-Parameter Approach for Evaluation of Nociception Level During General Anesthesia**
Ben-Israel Nir, Zuckerman Galit, Kliger Mark, Katz Yeshayahu, Edry Ruth.
[STA, Phoenix, AZ, Jan. 2013; ASA Conference, Washington DC, Oct. 2012](#)

28. **A combination of multiple autonomic parameters, rather than each parameter alone, yields significant differentiation between heat pain intensities**
Roi Treister, Mark Kliger, Galit Zuckerman, Itay Goor Aryeh, Elon Eisenberg.
[EFIC Conference, Germany, 2011](#)

29. **Toward automatic pain monitoring: Method for classification of pain level based on statistical processing of multiple non-invasive physiological measures**
Roi Treister, Mark Kliger, Galit Zuckerman, Itay Goor Aryeh, Elon Eisenberg.
[IPA Conference, Israel, 2010](#)

Main Citations

28. **Digital innovations and emerging technologies for enhanced recovery programmes**
Frederic Michard, Tong Joo (TJ) Gan, Henrik Kehlet
[Br J Anaesth 2017; 119 \(1\): 31-39](#)
29. **Assessing pain objectively: the use of physiological markers**
Rachel Cowen, Maria Stasiowska, Helen Laycock, Carsten Bantel.
[Anaesthesia. 2015 ;70\(7\):828-47](#)
30. **Acute psychosocial stress reduces pain modulation capabilities in healthy men**
Geva Nirit, Pruessner Jens, Defrin Ruth.
[PAIN. 2014 Nov.;155\(11\):2418-25](#)
31. **Multi-parameter autonomic-based pain assessment: More is more?**
Marco L. Loggia, Vitaly Napadow.
[PAIN 153 \(2012\) 1779–1780](#)
32. **Objective Assessment of Acute Pain**
Helen Laycock, Carsten Bantel.
[J Anesth Clin Res 2016, 7:6](#)
33. **Physiological Signal Processing for Individualized Anti-Nociception Management During General Anesthesia: A Review.**
Julien De Jonckheere, Vincent Bonhomme, Mathieu Jeanne, Emmanuel Boselli, Matthias Gruenewald, Regis Logier, Philippe Richebé.
[Yearb Med Inform. 2015 Aug 13;10\(1\):95-101](#)