

We recognize the importance of keeping our community up to date and well informed, particularly in light of the daily challenges you must be facing. In this newsletter we are happy to share updates on recent clinical and strategic milestones.

## NOL Monitoring Can Reduce Postoperative Pain



A new study, just published in the British Journal of Anaesthesia, has demonstrated that patient postoperative pain scores were 33% lower when administration of pain medication during surgery was guided with NOL monitoring. The study observed patients

undergoing abdominal surgery under fentanyl-sevoflurane anaesthesia. Median postoperative NRS pain scores were reduced from 4.8 to 3.2.

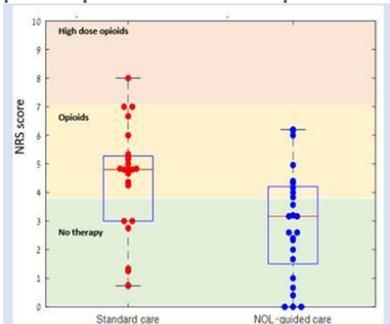


Figure 1: Box plots of the median pain scores observed per subject in the PACU

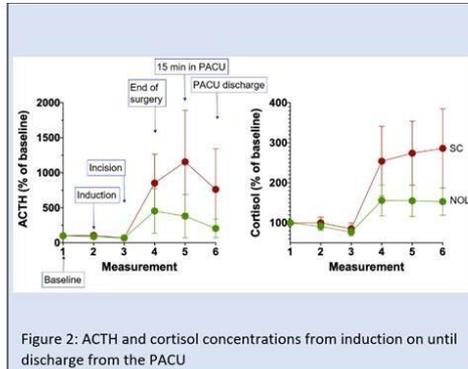


Figure 2: ACTH and cortisol concentrations from induction on until discharge from the PACU

In addition, stress hormone levels were up to 50% lower in the NOL-guided group during surgery and during recovery (reported as % from baseline levels).

[Click here to read the full study.](#)

# NOL Reduces Hospital Costs

Monitoring patients' pain response with NOL will not only improve patient outcomes - it's also likely to reduce the cost of care for hospitals. Check out a [new abstract](#) presented at the annual ISPOR conference (the leading professional society for health economics and outcomes research globally), showing that NOL-guided intraoperative analgesia could facilitate cost savings in under a year.

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## NOL Case Reports

**Parathyroidectomy with NIM Tube: Improving Analgesia Protocols**  
Parathyroid glands are four small glands of the endocrine system which regulate blood calcium levels to that the nervous and muscular system can function properly. During the preparation for this ENT surgery, a NIM™ tube is placed to provide an open airway for patient ventilation. The case described below demonstrates the potential for improved analgesia protocols for major surgery.

**Childbirth Contractions**  
NOL™ correlates with labour contractions, and indicates effective epidural relief.

We describe here a case of a conscious labouring woman. With NOL™ monitoring, we could easily observe high correlation between the woman's self-reported pain level for each contraction, as well as high correlation with uterine contractions as displayed on the TOCO. In addition, lower levels of NOL™ also indicate effective analgesia.

**Identifying Effectiveness of Suprascapular Nerve Block and Opioid Sparring with NOL®**  
Background: Suprascapular nerve block (SNB) has been proposed as an analgesic alternative for shoulder surgery, to reduce the need for IV opioids. We present the case of a 66-year-old female patient undergoing shoulder surgery. Anaesthesia was induced with Midazolam + Fentanyl + Propofol + Rocuronium. SNB was injected at 08:12 and came into full effect at 09:04, reflected by NOL™ values below 10, demonstrating the analgesic efficacy of the block. Sub-clinical NOL™ increases reflect administered epiduraline (09:08) and decrease in hypnosis and remifentanyl (09:24).

Conclusion: NOL™ has not only the effect of the block, contributing to the overall analgesic conditions to maintain minimal IV analgesia, or opioid sparing.

Clinicians around the world are eliminating the guesswork by using NOL monitoring in a range of procedures and settings. Find out more with our [recently published case reports](#).

Do you have interesting cases with NOL to share? [We'd like to hear from you!](#)

**Interested in exploring NOL's utility in the ICU?  
We are seeking to consult with clinicians in this setting.  
[Please contact us](#) for more information.**

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## Missed Our Webinar?

In case you missed our webinar - Into the Future of Pain Management, we invite you to learn from [Prof. Frank Overdyk](#) why objective pain assessment is

required both in and out of the operating room and get first-hand insights from [Prof. Albert Dahan](#) on the studies that illustrate how NOL-guided analgesia can improve patient outcomes.



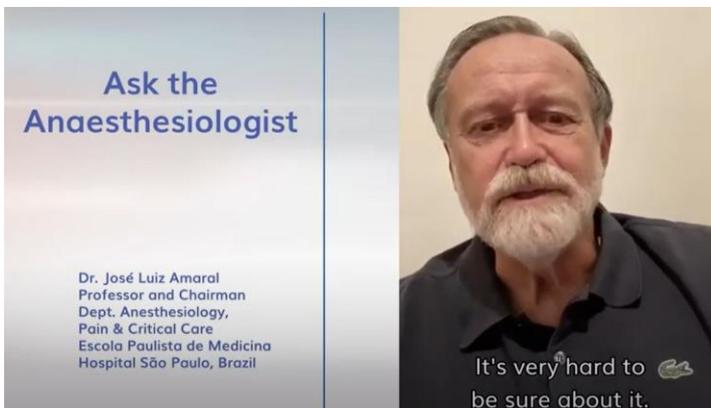
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## Pain Awareness Month: ‘Ask the Anaesthesiologist’

Medasense dedicates every working minute to advancing better pain management. To mark Pain Awareness Month in September, we launched an ‘Ask the Anaesthesiologist’ video campaign with leading clinicians addressing typical pain management challenges.

In case you missed it, you can find all these clips on our [YouTube channel](#).

**Please share on your social media and help us raise global awareness!**



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## Accelerating Growth: Medasense Raises \$18M Series C

Earlier this month we were pleased to announce the closing of our series C

funding round of \$18M. This infusion allows Medasense to accelerate commercialization of NOL technology in Europe and to complete the process of obtaining FDA approval for commercialization in the U.S.

[Read the full press release.](#)

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## Upcoming (Virtual) Events

### NOL WEBINARS AND SYMPOSIA

Our commercial partners are welcoming clinicians to join virtual webinars and symposia that will provide the most updated information on NOL utility and user insights.

[CONTACT US FOR REGISTRATION DETAILS>>](#)

#### **October 11, 2020 (In Italian)**

This year's virtual **SIAARTI 2020** congress will include an engaging LIVE session with Dr. Roberta Monzani introducing the latest updates on NOL monitoring during anaesthesia. Hosted by Medtronic Italy.

#### **October 15, 2020 (In French)**

Join a webinar presented by three leading clinicians who will share their insights and experience with NOL: Prof. Philippe Richebe, Prof. Dan Longrois and Dr. David Charier. Hosted by Medtronic France.

#### **October 22, 2020 (In English)**

Prof. Hugo Vereecke and Dr. Sean Coeckelenbergh will be giving a Remote Introduction to NOL. Hosted by Medtronic Benelux.

#### **October 22 - October 23 (In Hebrew)**

**Israel Society of Anesthesiologists Annual Conference** Medasense will be participating in this hybrid event, including an expert lecture, online sessions and a hands-on NOL technology workshop at the Hilton Hotel, Tel Aviv.

#### **November 12-15 (In Romanian)**

Learn about NOL monitoring at the fully virtual **SRATI 2020** Congress with Prof. Dan Longrois. Hosted by SofMedica.

## November 28-30 (In English)

Attend **Euroanaesthesia 2020** and join the NOL Symposium hosted by Medtronic.

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[One of Israel's leading plastic surgeons, Dr. Eyal Winkler, published an article on his experiences with NOL monitoring \(the original Hebrew was published in Ynet, the top news website in Israel\).](#)

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Following us on **LinkedIn** is another great way to stay up to date on Medasense's upcoming events and progress.

In case you missed our last newsletter, you can [view it here](#).

STAY HEALTHY. STAY SAFE.

Let's keep in touch.

**The Medasense team**

[Contact Us](#)