

Press Release

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Data Analytics: Protects the environment, as well as the budget, and offers peace of mind

Dräger Connect applications pave the way for the efficient use of medical technology

- Analysis of anesthetic consumption unlocks potential for savings, protective therapies and lower greenhouse gases
- Intelligent alarm analysis and planning to reduce stress for staff and patients

Lübeck – Dräger has developed two new software solutions to optimize clinical processes significantly. Building on the Dräger Connect Data Analytics platform, the Gas Consumption Analytics application enables healthcare systems to analyze the technical logbooks of all Dräger anesthesia machines in the Perseus and Atlan family. The application provides an overview of consumption and the resulting costs of individual anesthetic agents, as well as the fresh gas flows used on the machines. It also offers a comparison between the anesthetic gas consumption and the intake by the patient for each machine.

The gas consumption analysis not only helps to reduce costs by optimizing procurement expense. Because anesthetic gases damage the ozone layer,¹ efficient use of volatile anesthetic agents with low-flow anesthesia can also reduce a hospital's CO₂-equivalent emissions. Furthermore, observation results of monitoring low-flow anesthesia show advantages for the patient. For example low-flow maintains the moisture and heat content of the breathing gases.² This supports the function of the airway epithelium³, which is required for mucociliary clearance (self-cleaning process of the bronchial tubes).

Reduce alarm stress

Besides reducing the consumption of anesthetic agents, Dräger Connect is also an efficient tool in alarm reduction. At the moment, excessive alarms with

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¹ Rossaint R, Werner C, Zwißler C. (pub.): Die Anästhesiologie 2019, Springer-Verlag Berlin Heidelberg DOI 10.1007/98-3-662-54507-2

² Hönemann C, Hagemann O, Doll D. Inhalational anaesthesia with low fresh gas flow. Indian J Anaesth 2013;57:345-50

³ Drägerwerk AG & Co. KGaA (pub.): Clinical Benefits of Low- and Minimal-Flow Anesthesia, 2015; <https://www.draeger.com/Library/Content/low-flow-and-minimalflow-wp-999-en.pdf>

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no clinical relevance in intensive and intermediate care stations are placing unnecessary stress on staff and patients. Studies have shown that 95 percent of the up to 350 alarms triggered by monitoring-systems in an intensive care unit (ICU) each day are clinically irrelevant.⁴

The Dräger Alarm History Analytics application offers guidance by first providing a detailed overview of past alarm messages. The software can, for example, be used to display alarms by severity, type or distribution, turning alarm auditing into an important decision-making tool when staffing the department. The program supports clinical standard operating procedures (SOP) for a hospital's alarm management strategy. In addition, the effect of the measures taken to reduce alarm fatigue can subsequently be assessed. The Dräger alarm analysis therefore contributes to a hospital's alarm strategy that permanently reduces a constantly high noise level. Moreover, Dräger advises hospitals on the analysis of the current situation and helps define requirements for an alarm system and implement a plan that improves how alarms are handled. The Alarm History Analytics application can then be used to review the effectiveness of process optimizations.

The Dräger Connect "Gas Consumption Analytics" and "Alarm History Analytics" applications are manufactured by Drägerwerk AG & Co. KGaA

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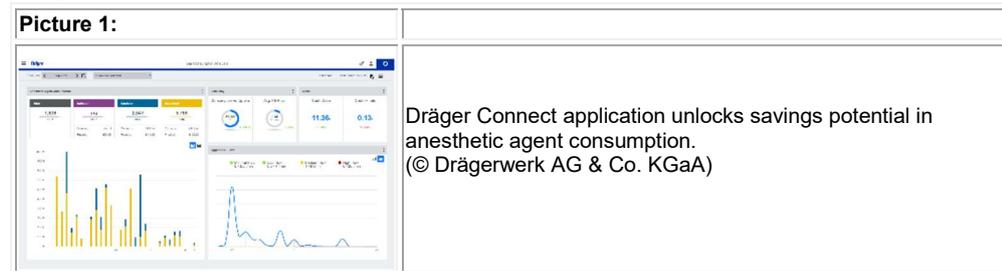
⁴ Schmidt Brooke: Alarm Fatigue Hazards: The Sirens Are Calling, Patient Safety & Quality Healthcare (PSQH), Issue May/June 2012; <https://www.psqh.com/analysis/alarm-fatigue-hazards-the-sirens-are-calling/>

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Images:



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[https:// www.draeger.com/de_corp/Presse](https://www.draeger.com/de_corp/Presse)

Note: The product mentioned in this press release will not initially be available in all countries. For more information on availability in countries other than Germany, please visit the website for your country or contact the local Dräger Sales organization.

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