



Сведения о документе - Measuring force in a laryngoscope

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Measuring force in a laryngoscope(Conference Paper)

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Краткое описание

A laryngoscope is a surgical instrument used to facilitate endotracheal intubation task during general anaesthesia or mechanical ventilation. This task usually takes less than a minute, but requires very precise movements and force control ability; otherwise it may result in serious damages to the patient incisors, larynx, spinal column, changes in heart rate and/or blood-pressure. This work presents a prototype of a device that can be easily adapt to a common laryngoscope, which allows the measurement of the force applied between the handler and the blade. The force measurements are acquired by a bluetooth® data acquisition module and transmitted to a portable computer for data recording and analysis. Real-time force information is provided to laryngoscopists and alarm triggered as desired by according to the user settings. The software application - Laring Monitor - was built in Free Pascal and is able to be run in different operating systems (Windows, Linux and Mac X). Copyright © 2011 ACTA Press.

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Ключевые слова автора

[Endotracheal intubation](#) [Force sensors](#) [Laryngoscope](#)

Включенные в указатель ключевые слова

Engineering uncontrolled terms

[Acquisition modules](#) [Endotracheal intubation](#) [Force sensor](#) [Heart rates](#) [Laryngoscope](#)
[Mechanical ventilation](#) [Operating systems](#) [Portable computers](#) [Software applications](#)
[Spinal column](#) [Surgical instrument](#) [User setting](#)

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