

TRACCE PROVA ORALE

CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER N. I POSTO DI DIRIGENTE MEDICO – AREA DELLA MEDICINA DIAGNOSTICA E DEI SERVIZI – DISCIPLINA DI ANESTESIA E RIANIMAZIONE – DA ASSEGNARE ALLA UOC TERAPIA INTENSIVA I – NEUROANESTESIA E RIANIMAZIONE

PROVA ESTRATTA:



CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER N. I POSTO DI DIRIGENTE MEDICO – AREA DELLA MEDICINA DIAGNOSTICA E DEI SERVIZI – DISCIPLINA DI ANESTESIA E RIANIMAZIONE – DA ASSEGNARE ALLA UOC TERAPIA INTENSIVA I – NEUROANESTESIA E RIANIMAZIONE

PROVA ORALE N. 2

FARMACI PER LA SEDAZIONE PEDIATRICA IN RISONANZA MAGNETICA

QUESITO DI INGLESE:

LETTURA E TRADUZIONE DI UNO STRALCIO DI ARTICOLO ALLEGATO.

QUESITO DI INFORMATICA:

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IL CANDIDATO INDICHI COME TRASFORMARE DEI DATI IN UN GRAFICO.





Allegato prova orale n. 2

PROVA ORALE N. 2

Pediatric Anesthesia

Early transfusion and crystalloid infusion strategy in infants undergoing cranioplasty surgery doi:10.1111/j.1460-9592.2009.03167.x

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Sistema Socio Sanitario
Regione
Lombardia

PROVA NON ESTRATTA:

Allegato 1)



CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER N. I POSTO DI DIRIGENTE MEDICO – AREA DELLA MEDICINA DIAGNOSTICA E DEI SERVIZI – DISCIPLINA DI ANESTESIA E RIANIMAZIONE – DA ASSEGNARE ALLA UOC TERAPIA INTENSIVA I – NEUROANESTESIA E RIANIMAZIONE

PROVA ORALE N. I

GESTIONE DELL'EMORAGGIA NEI BAMBINI SOTTOPOSTI AD INTERVENTO DI CRANIOPLASTICA

QUESITO DI INGLESE:

LETTURA E TRADUZIONE DI UNO STRALCIO DI ARTICOLO ALLEGATO.

QUESITO DI INFORMATICA:

IL CANDIDATO INDICHI QUALI PROGRAMMI UTILIZZARE PER PREPARARE UNA PRESENTAZIONE IN CUI SIANO INCLUSE DELLE TABELLE STATISTICHE

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Allegato prova orale n. I

PROVA ORALE N. 1

Response to 'Evaluation of the analgesia nociception index for monitoring intraoperative analgesia in children' (Br J Anaesth 2018;

Eftychia Sousi, Dominic Peter Douglas Nielsen ${\rm \hat{}}$ and Anil Rustamali Visram London, UK

Cognitive re-engineering after a 15-year experience with routine

Dario Caldiroli^{1,*} and Aidan J. Byrne²

¹Milan, Italy and ²Swansea, UK 'Corresponding author. E-mail: dario.caldirol





PROVA NON ESTRATTA:



CONCORSO PUBBLICO, PER TITOLI ED ESAMI, PER N. I POSTO DI DIRIGENTE MEDICO – AREA DELLA MEDICINA DIAGNOSTICA E DEI SERVIZI – DISCIPLINA DI ANESTESIA E RIANIMAZIONE – DA ASSEGNARE ALLA UOC TERAPIA INTENSIVA I – NEUROANESTESIA E RIANIMAZIONE

PROVA ORALE N. 3

VALUTAZIONE DELLA DISFAGIA IN PAZIENTI OPERATI IN FOSSA CRANICA POSTERIORE (NERVI CRANICI MISTI)

QUESITO DI INGLESE:

LETTURA E TRADUZIONE DI UNO STRALCIO DI ARTICOLO ALLEGATO.

QUESITO DI INFORMATICA:

IL CANDIDATO INDICHI I PROGRAMMI DA UTILIZZARE PER REPERIRE BIBLIOGRAFIE SCIENTIFICHE

5/2 #15



Allegato prova orale n. 3

PROVA ORALE N. 3

British Journal of Anaesthesia 112 (3): 563–9 (2014) Advance Access publication 22 October 2013 · doi:10.1093/bja/aet347

RESPIRATION AND THE AIRWAY

Upper limb muscular activity and perceived workload during laryngoscopy: comparison of Glidescope® and Macintosh laryngoscopy in manikin: an observational study

 $\hbox{D. Caldiroli1*, F. Molteni3, A. Sommariva1, S. Frittoli2, E. Guanziroli3, P. Cortellazzi1 and E. F. Orena1. The substitution of the content of t$

¹ Department of Neuroanaesthesia and Intensive Care and ² Division of Movement Disorders, Department of Neurological Sciences, Ne Institute Cardo Besto, via Calorio 11, 2013 Millon, 1010 ² Department of Reiobilitation Medicine, Villa Beretta, via N. Sauro 17, 23845 Costo Mannagoli C.I., Italy

Background. The interaction between operators and their working environment during environment during performance during environment during performance during environment during performance during environment environmen

Keywords: electromyography; intubation, tracheal; laryngoscopy; muscle fatigue, workload Accepted for publication: 11 July 2013

The engonomics of laryngoscopy and trached intubotion, which involve the physical interaction between the operator and the working environment (equipment) and the underlying psychological and cognitive elements responsible for such a psychological and cognitive elements responsible for such interaction, one the subject of current research intributions is biomenchanically feefined as a complex multi-joint proceeding that activates the operator's upper limit muscles during a short period of time. The energy developed by mackeds in transmitted to the patients' alrays through the laryngoscope in the form of historication and perpendical forces to expose the form of the protection and perpendical forces to expose the form of the protection and perpendical forces to expose interaction between anotomical involvedge, physical strength, coordination, and viscopatial owwerses," which offects macked utilization.

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operator's cognitive resources are elimost totally dedicated to the task and that the capacity to deal with additional information is impaired. ^{1,16} Cognitive event-od has been recognited as a significant cause of error, which can exert in patient method is part of mortality during intubation. ^{1,16} Indicates a more state in patient method is predicted as the company of the core of the capacity of the capaci

Materials for largnagosci, Munich, Germany) in-groups with a number 4 Mointoin blode was used for all direct largnagose, and a CNL Gildescope Videolongno-scope (Versthon* Medical, Bothell, Wa, USA), with a number 4* reusable dubt blow was usef for all indirect largnagoscipes. The monitin used was a commercial airway training model 1811.11 (pW. 3) -184 COV VIAM Meditinscherik (2018) to 2712 a.k. Cermany), which is not soul for difficult airway training-soul control of the control of the control of the control of the sound control of the control of the control of the control of the sound control of the control of the control of the control of the for control of the for control of the co

Set-up for laryngoscopy

The same manish was used for all participants. It was placed on atrolls, and is height was atteitiven the uncerthest superisterman and urministra and initiality produces at the same properties of the same produces and the same produces and the same produces are same positions with pallow under the head However, each participant was fire to deglish or position of the manish before the track?

A sillione-labricated Coridina (IIC Merafield, MA, USA) 7.5 mm tached to the miniforced with a mollisoble shyde two used for each large groups one socialised from blade insertation in the manishim much to blade removed. A falled withstation was defined either so on tettings talking – 60 or off the tube was not found in the trackes at the end of the managewer. If

Specific conditions during Macintosh laryngoscopy Before the triols, portlicipents were reminded of the correct posture during insubotion and the more ergonomic handling of the laryngoscope. ³⁷ Betwie the value of the Participents could change the be curvature before and during laryngoscopy. An assistant passed the tube during in-tubation to prevent the operators from diverting their gaze from the target.

The screen was positioned in front of the operator at a distance of 0.6 m³⁰ such that the eyes, manikin, and screen were on the same axis and the operators did not have to rotate their eyes or

Electromyography
SDMG signals, synchronized with two digital video comeros
scample note 25 kHz on the sogistial and frontal planes, were
recorded at 1000 kHz (BTS rene2MG, BTS Bioengineering for each
of the following-nucks: super tracepask, pectarolis migring-ranteor deliald, middle delitoid, posterior delitoid, bioengi barchi, biochivecolisio, and triceps barchi. Biopher Ag/AgC (JAMD) ATS,
Demmahly surface electrode distonce or 10 mm allorester were
placed with on inter-electrode distonce or 10 mm allorester were
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related to maximum isometric voluntary contractions fMIVC)¹⁰
were performed in standed postures for each muscle were bardpost filtered of 5-250 bit with the third-order butterworth filter and
the full wave was rectified. The SEMG complitude values during
intuitation were normalized to the SBMG values measured
during MIVC We calculated the integral forea under the curve,
AUX) of the averaged signal from each muscle observed during
each task trial as index of muscular activity.²³



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Task workload assessment

Study design and data collection

Acquisitions were performed in a randomized sequence
during tow Macinton and Gidescopes" languagescape sessions.

Before all experimental triols, each anneathesis performed a
training session of 10 intuitations per device to become
familiar with the manikin and avoid any learning effect during
the session. Data originations started 5 s before and
ended 5 soft the third businosis. New learnings offered and
for each session, with a 1 min break between each session to
assess data considerers, All data aquisitions were performed
by the same operator to ensure expraducibility of the ocquisition
technique and premat bias because of leter operator variability.

Subjects completed MASA-TIX at the end of each session. A
psychologist, Tinder to the individual test results, standed all
participants as they completed the questionnaire.

Outcomes and hypothesis

Out primary outcome was to analyse the upper limb SEMG muscular activity during languages one primate with the Glidescooks "and Mochanton. We expected on less at mean 50%
"and Mochanton. We expected on less at mean 50%
difference in muscular activation between the two techniques, as quantified by the ALC index. The secondary outcome was
the perceived workload assessed with the NASA-TLX. We
speculated that the global workload according outcome was
the perceived workload according to the control of the
Glidescapes" than for Mochanto larguagescape, Varthermore, we determined the mental, physical, or both factors that
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Data handling and statistics

Dato handling and statistics

He ALT electrical octal wip of each of the eight muscles was cal-culated for each trial, and the mean and standard deviation (a) for each session were considered to represent the behaviour of the stubicts during the different tasks. A total versitoed score and single score for each of the six wesholds ofscore were obtained from MAS-1TLX, and means and as were coloutised for the two experimental conditions. Duto were obtained from MAS-1TLX and means and as were coloutised for the two experimental conditions. Duto were obtained using 95% ver. 13 of 95% inc., Chicago, IL, USA). A two-tailed significance level set of ±0.05, and =70.005 (P=0.05%) for SEM data analysis and P₂ 0.008 (P=0.056) for NAS-1TLX subsciscles analysis, according to the Boniferroni correction for multiple comporisons.

Results
The overall population comprised 13 annesthetists, one was not eligible because he was newly hired, and two decided not to participate. Therefore, 10 staff annesthetists (six males and four females; menn (sa) og 4.3 (11.5) yr) all experienced with Macintosh and Gildescope" (> 200 routine intubutions), participated in the study, No subject had a history of chronic musculoskeletal problems or any known neurological disorders. The two different langnapscopes did not affect the dustrion of the management (neuro difference 1.3 s;P = 0.11), and no foliade intubution was recorded. The memo electrical musculor activity (AUC) was lower during Gildescope" langnagescopy than during Admittable (Psg. 1). We found significant and differences for the upper trapeation (Psg. 10.002), amenior differences for the upper trapeation (Psg. 10.002) and (significance was reached for the pectronics major (Ps = 0.008), middle delitoid (Ps = 0.007), tricipated (Psg. 0.008), middle delitoid (Psg. 0.007) and (Psg. 0.008), middle delitoid (Psg. 0.007), which was very large, with single ESs of d = 1.71 - 7.75.

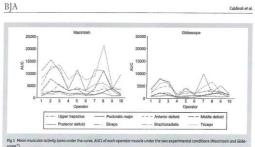
An exemple of the SEMS signosts analysed during Macintosh.

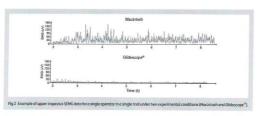
Count o mean ES of d= 3.28, which was very large, with single ES of d= 1.71 - 7.75.
An example of the SEMS signals analysed during Macintosh and Gildescope l'orgopacy is shown in Figure 2. The total perceived warnised out one was significantly lower for the Gildescope l'orgopacy in shown in Figure 2. The total perceived warnised some was significantly lower for the Gildescope l'han for Macintosh largopaccypy (P=0.0058, Moreover, the Totats of mental demand, effort, and frustration were higher for the Macintosh than for Gildescope l'augrepaccypy, with significant differences in physical demond (P=0.008) and effort (P=0.006) Fig. 31.

Discussion

Discussion

Languagescapy and intubation are complex tasks because of direct interaction between the operator, device, and patient where motor control, attention, precision, and time play key roles in operator workload determination. Previous analytic models have focused only on the device—potient/manikin interaction.



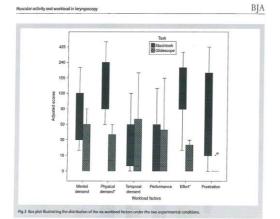


with the Micritaria compared with Gildescopes." Instead, the upper trapesite, neutrino relatively, and estimated and branchis-odiesis were octively involved during Macinteria laring aposcopy but minimally recruited with Gildescopes."

An explanation of this finding could be that the extended vision of the Gildescope "Gildwed posture to be maintained, which engoged the upper limb muscles less and reduced SMG activity. The comfort during mmouth handling tasks is

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positively correlated with muscle EMG²⁷ and lower maximum muscular activity is correlated with higher levels of perform-none (efficacy, voerfloct correl, precision, and fluidity).²⁸ Because generating the appropriate force constitutes a possibile intimity factor, videolary progressy could be useful as a distribution of the constitution of the constitution of the properties of the constitution of the constitution of the west relative to the constitution of the constitution of the west relative to the constitution of the constitution of the west relative to the constitution of the constitution of the constitution of the west required.

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istent with a decrease in the muscular octivity, our showed a significant reduction in perceived workload Glidescope® laryngoscopy compared with Macintosh scopy, with particular respect to physical demand

ffort.

rerefore, we suggest that muscular fotigue is a significant are during direct laryngoscopy and that the introduction are ergonomically efficient devices would decrease elated workload.

direct and colleagues¹³ validated a novel quantitative

d to assess anaesthetist workload and emphasized that ng workload in anaesthesia is a prominent issue for a inical practice. As a confirmation, 64% of anaesthetists e performance errors to excessive workload.³⁰

practice.

Application of our conclusions to other anaesthesis providers may also be limited because of different familiarity with the Gildscape[®] videologn/gaccope. To our innowledge, this is the first study that has provided a combination of objective manufacture and supplicative measures related to both precipion and action during the complex tosk of largnopaccopy. Our results emphasize the symmetric reduction in both a

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subjective evaluation of physical demand and effort and the instrumental measurements of muscle activation.

Conclusions

The reduction intosik workload related to a lower upper limbrus-durant children of the dislessory of and related postured the operator's perception of less effort during language copyring adjustments were the key factors in reducing the annual or dynamics were the key factors in reducing the annual or dynamics were the key factors in reducing the annual or dynamics were the key factors in reducing the annual of grantfed 590s. Certifying and the preceived test load.

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Conclusions

The reduction in track worklood related to a lower upper limb muscular octivity using the Gildescope" videolognopocope explained the operator's perception of less effort during largyogocopy. The autymented vision of the Gildescope" and related popular adjustments were the ley forts in individual to the studies or required to verify the walding for the results obtained or experiend to verify the walding for the results obtained one experiend to verify the walding of the results obtained one experiend to the wife the results obtained one experiends to positive the results obtained and experiends to result to the results obtained and experiends to result to the results obtained and experiends to result to the results of the

The authors would like to thank Enago (www.enago.com) for the English language review.

Declaration of interest

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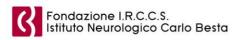
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Muscular activity and workload in laryngascopy

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