

Celková anestezie u císařského řezu v roce 2018

Martina Kosinová (Brno)







- Search: (((cesarean[Title/Abstract]) OR caesarean[Title/Abstract])) AND (((general anesthesia[Title/Abstract]) OR general anaesthesia[Title/Abstract]) AND ("2018/01/01"[PDat] : "2018/12/31"[PDat]))
- 79 článků
- 7 review

Většina:

- Case reporty
- National surveys
- Publikace komplikací svodné anestezie
- Observační studie rodiček specifických skupin/ komorbidit



Residenti a porodnická anestezie

J Educ Perioper Med. 2018 Apr 1;20(2):E621. eCollection 2018 Apr-Jun.

Development of a Multiple-Choice Test for Novice Anesthesia Residents to Evaluate Knowledge Related to Management of General Anesthesia for Urgent Cesarean Delivery.

Lee AJ, Goodman SR, Banks SE, Lin M, Landau R.

Abstract

BACKGROUND: Teaching trainees the knowledge and skills to perform general anesthesia (GA) for cesarean delivery (CD) requires innovative strategies, as they may never manage such cases in training. We used a multistage design process to create a criterion-referenced multiple-choice test as an assessment tool to evaluate CA1's knowledge related to this scenario.

METHODS: Three faculty created 33 questions, categorized as: (1) physiologic changes of pregnancy (PCP), (2) pharmacology (PHA), (3) anesthetic implications of pregnancy (AIP), and (4) crisis resource management principles (CRM). A Delphi process (3 rounds) provided content validation. In round 1, experts (n = 15) ranked questions on a 7-point Likert scale. Questions ranked \geq 5 in importance by \geq 70% of experts were retained. Five questions were eliminated, several were revised, and 1 added. In round 2, consensus (N = 14) was reached in all except 7 questions. In round 3 (N = 14), all questions stabilized. A pilot test of the 29-question instrument evaluating internal consistency, reliability, convergent validity, and item analysis was conducted with the July CA1 classes at our institution after a lecture on GA for CD (n = 26, "instructed group") and another institution with no lecture (n = 26, "uninstructed group"), CA2s (N = 17), and attendings (N = 10).

RESULTS: Acceptable internal consistency and reliability was demonstrated (ρ = 0.67). Convergent validity coefficients between the CA1 uninstructed and instructed group suggested theoretical meaningfulness of the 4 sub-scales: PCP correlated at 0.29 with PHA, 0.35 with CRM, and 0.25 with AIP. PHA correlated with CRM and AIP at 0.23 and 0.28, respectively. The correlation between CRM and AIP was 0.29.

CONCLUSION: The test produces moderately reliable scores to assess CA1s' knowledge related to GA for urgent CD.



Residenti a porodnická anestezie

33 otázek

- Fyziologické změny v těhotenství
- 2. Farmakologie
- 3. Dopady těhotenství na anestezii
- 4. Principy managementu a krizových situací

Sledovány 3 skupiny:

- Edukovaná skupina rezidentů
- Rezidenti bez lekce porodnické anestezie
- Skupina starších residentů a "attending anesthesiologists"



Předoperační postupy - promodikace?

- premedikace?

Benzodiazepiny – vhodné u rodiček s výraznou anxietou **Midazolam 0.025 mg/kg i.v.** před vstupem na OS vede s snížení anxiety, nevede k ovlivnění novorozence (APGAR, NACS)



REVISTA BRASILEIRA DE ANESTESIOLOGIA

ficial Publication of the Brazilian Society of Anesthesiolog www.sba.com.l



SPECIAL ARTICLE

Premedication with midazolam prior to caesarean section has no neonatal adverse effects*

ZU IZ MU 🆀 KDAR

ARTICLE HISTORY

Received 17 March 2018 Revised 8 June 2018 Accepted 8 June 2018

The Journal of Maternal-Fetal & Neonatal Medicine



KEYWORDS

Anxiety; cesarean section; general anesthesia; pain; spinal anesthesia

ISSN: 1476-7058 (Print) 1476-4954 (Online) Journal homepage: http://www.tandfonline.com/loi/ijmf20

Effects of preoperative anxiety on postcesarean delivery pain and analgesic consumption: general versus spinal anesthesia

Table 2 of 2

Table 2. Comparison of analgesic consumption and pain intensity in the patients with and without a State Anxiety Index score of ≥45.

	State Anxiety Inventory Score <45			State Anxie	ty Inventory Score ≥45	
	General anesthesia	Spinal anesthesia	р	General anesthesia	Spinal anesthesia	p
	(Group 1)	(Group 2)		(Group 1)	(Group 2)	
	(n = 59)	(n = 62)		(n = 21)	(n = 18)	
Diclofenac consumption (mg)	150 (0-150)	150 (0-225)	.270	150 (0-150)	150 (0-150)	.490
Pethidine consumption (mg)	0 (0-100)	0 (0-100)	.605	0 (0-100)	0 (0-100)	.837
VAS 1 h	4.03 ± 1.88	3.43 ± 2.36	.114	4.58 ± 1.69	2.87 ± 1.55	.016*
VAS 6 h	3.85 ± 2.11	3.25 ± 1.54	.065	3.83 ± 1.68	2.82 ± 1.41	.034*
VAS 12 h	3.73 ± 2.13	3.60 ± 1.85	.614	3.82 ± 1.62	2.58 ± 1.38	.012*
VAS 18 h	3.00 ± 1.57	2.60 ± 1.47	.236	3.07 ± 1.15	2.83 ± 1.38	.651
VAS 24 h	2.33 ± 1.18	2.26 ± 1.15	.711	2.61 ± 1.37	2.06 ± 1.09	.148

*Statistically significant difference.





ORIGINAL ARTICLE

Dexmedetomidine as a part of general anaesthesia for caesarean delivery in patients with pre-eclampsia

A randomised double-blinded trial

Ashraf M. Eskandr, Ahmed A. Metwally, Abd-Elrahman A. Ahmed, Elham M. Elfeky, Islam M. Eldesoky, Manar A. Obada and Osama A. Abd-Elmegid

Cílem snížení stresové a hemodynamické odpovědi rodiček s preeklampsií na OTI

- Skupiny D1 a D2: infuze dexmedetomidinu 1mcg/kg (10 min) před úvodem do CA, následovaná 0.4 nebo 0.6 mcg/kg/h dexmedetomidinu
- Kontrolní skupina FR

Sledované parametry: Krevní tlak, glykemie, hladina kortizolu, VAS, RSS, Apgar skóre, hladiny dexmedetomidinu u rodičky a novorozence...

Podání dexmedetomidinu vedlo k hemodynamické a hormonální stabilizaci a nevedlo k ovlivnění novorozence!



Obvod krku a predikce obtížné intubace?

Saudi J Anaesth. 2018 Jan-Mar;12(1):77-81. doi: 10.4103/sja.SJA_385_17.

Does neck circumference help to predict difficult intubation in obstetric patients? A prospective observational study.

Riad W¹, Ansari T¹, Shetty N¹.

	Total sample $(n=94)$	Intub	Intubation		
		Not difficult (n=84)	Difficult (n=10)		
Mallampati classification, n (%)					
1	33 (35.1)	31 (36.9)	2 (20.0)	0.00	
II	58 (61.7)	52 (61.9)	6 (60.0)		
III	3 (3.2)	1 (1.2)	2 (20.0)		
Mouth opening (cm)	4.50 (4.375-5.000)	4.50 (4.125-5.000)	4.5 (4.375-5.000)	0.86	
Thyromental distance (cm)	8.00 (7.50-9.00)	8.00 (7.50-9.00)	8.25 (7.875-8.750)	0.87	
Sternomental distance (cm)	13 (12.5-14.0)	13 (12.5-14.0)	14 (12.375-14.000)	0.48	
Hyomental distance (cm)					
Neutral position	3.50 (3.00-4.00)	3.50 (3.00-4.00)	3.10 (2.500-3.775)	0.20	
Extension	4.75 (4.50-5.00)	5.00 (4.50-5.00)	4.50 (4.375-5.500)	0.44	
Hyomental distance ratio	1.37 (1.25-1.50)	1.365 (1.25-1.50)	1.45 (1.257-1.50)	0.27	
Neck circumference	34.00 (32.375-36.000)	33.75 (32.00-35.50)	35.75 (34.75-36.625)	0.01	
IDS, n (%)					
Negative (IDS 0)	68 (72.3)	68 (81.0)	0	0.00	
Positive (IDS ≥1)	26 (27.7)	16 (19.0)	10 (100)		
IDS	0.00 (0.00-1.00)	0.00 (0.00-0.00)	6.00 (5.00-6.00)	0.00	
Difficult intubation, n (%)	10 (10.6) 95% CI (4.29-16.99)				

Data expressed as the median (interquartile range) or number and percentage. CI: Confidence interval; IDS: Intubation difficulty scale

Surgical site infection after cesarean delivery: incidence and risk factors at a US academic institution.

Moulton LJ¹, Munoz JL¹, Lachiewicz M², Liu X³, Goje O¹.

Author information

Abstract

Table 3. Multivariate analysis for patients who underwent cesarean delivery for the development of postpartum SSI.

•	N
•	
•	,
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Variable	Odds ratio	959	∕₀CI	p Value
Cd for labor arrest	2.39	1.631	3.504	<.0001
Preterm labor	2.753	1.263	5.998	.0108
General anesthesia	4.411	1.979	9.832	.0003
Smoking during pregnancy	1.859	1.087	3.181	.0236
Maternal asthma	1.878	1.093	3.224	.0224
Body Mass Index	1.071	1.05	1.093	<.0001

For each one unit increase of BMI, the odds of SSI = yes increase by 7%, after adjusting for other covariates. In addition, general anesthesia is associated with 4.4 (2.0, 9.8) times than the odds of SSI compared to local anesthesia, after adjusting for the covariates included in the final model.





ORIGINAL ARTICLE

Neonatal effects after vasopressor during spinal anesthesia for cesarean section: a multicenter, randomized controlled trial

K. Uerpairojkit, R. Anusorntanawat, A. Sirisabya, M. Chaichalothorn, S. Charuluxanana

Podání efedrinu

- u plánovaného SC v SAB vede ke klinicky nevýznamné tachykardii
 novorozence v časném poporodním období v porovnání s phenylefrinem
- Vede k závažnější acidoze (proti phenylefrinu)
- Phenylephrine od 01.11.2017 dostupné v ČR

(PHENYLEPHRINE 50 MICROGRAMS/ML)



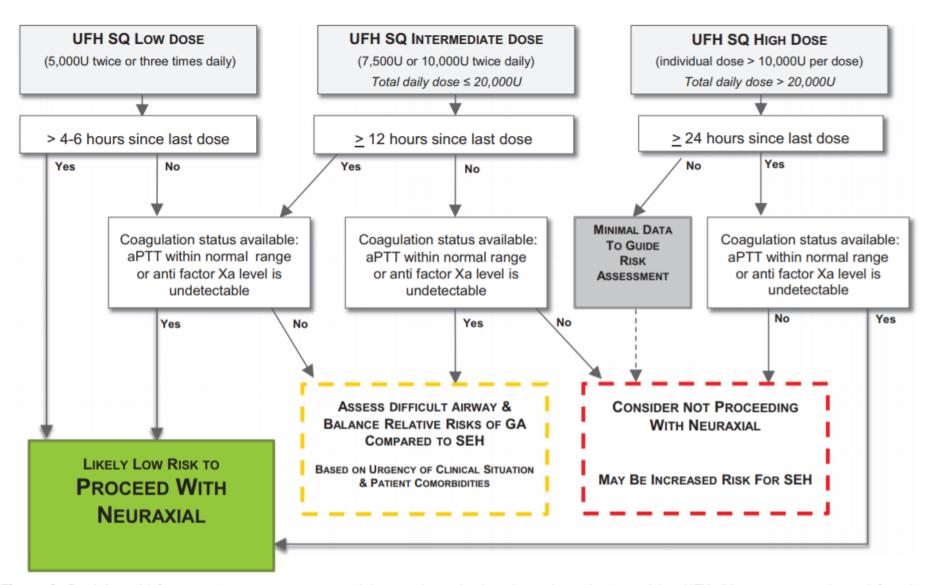


Figure 3. Decision aid for urgent or emergent neuraxial procedures in the obstetric patient receiving UFH. *Assume normal renal function, body weight > 40 kg, and no other contraindications to neuraxial anesthesia. aPTT indicates activated partial thromboplastin time; GA, general anesthesia; SEH, spinal epidural hematoma; SQ, subcutaneous; UFH, unfractionated heparin. Note: This SOAP consensus statement is not intended to set out a legal standard of care and does not replace medical care or the judgment of the responsible medical professional considering all the circumstances presented by an individual patient.

Lancet. 2018 Feb 21; 1 Suppl 2:S33. doi: 10.1016/S0140-6736(18)30399-4. Epub 2018 Feb 21.

General versus spinal anaesthesia for caesarean section: a quasi-controlled trial.

Tafish R¹, El Aish KIA², Madi W³.

Author information

Abstract

BACKGROUND: General anaesthesia and spinal anaesthesia are commonly used for caesarean sections. The aim of this study was to compare the outcomes from caesarean sections with these two types of anaesthesia.

METHODS: In this quasi-controlled trial, we enrolled women undergoing caesarean sections at Al-Helal Al-Emirati Hospital, Rafah, Gaza Strip. Women were assigned either to general anaesthesia (20% intravenous propofol for anaesthesia induction followed by atracurium for muscle relaxation, and nitrous oxide and oxygen for anaesthesia maintenance) or to spinal anaesthesia (0·5% hyperbaric solution bupivacaine with 20 μg fentanyl intrathecally). Outcome measures were length of hospital stay, length of operation, postoperative pain assessment by visual analogue scales (VAS; range 0-10, where 0 is no pain and 10 is very bad pain) 1 hour after the operation, time from anaesthesia to demand for analgesia, amount of analgesics used in 24 h, and headache after the operation. Data were analysed using SPSS version 20. Groups were compared using the Mann-Whitney U-test, Student's t test, and odds ratio. A p value less than 0·05 was significant. The study was approved by the hospital ethics committee, and verbal informed consent was obtained from each participant.

FINDINGS: 181 women (aged 19-46·5 years) were enrolled in this study. 79 women received general anaesthesia, and 102 women received spinal anaesthesia. The women did not differ in baseline characteristics such as mean age (30·6 years [SD 6·5] in the general anaesthesia group vs $28\cdot5$ years [5·4] in the spinal anaesthesia group; p=0·077), and weight (82·2 kg [SD 14·2] vs $28\cdot5$ kg [5·4]; p=0·263). We found no difference between the groups in length of hospital stay (38·7 h [SD 14·5] vs $40\cdot1$ h [12·5]; p=0·541), duration of caesarean section (39·9 min [SD 10·1] vs $41\cdot6$ min [9·1]; p=0·077), time to demand for analgesia (2·4 h [SD 2·0] vs $2\cdot5$ h [1·1]; p=0·634), and hospital readmission (odds ratio 0·77, 95% CI 0·11-5·59). VAS 1 h after the operation was higher in the general anaesthesia group than in spinal anaesthesia group (5·43 [SD 2·9] vs $2\cdot38$ [2·32]; p=0·001). Fewer patients who had general anaesthesia needed second and third analgesics than patients who had spinal anaesthesia (23% of women in the general anaesthesia group vs 47% of women in spinal anaesthesia group needed two analgesics; 4% vs 27% needed three or more analgesics; p<0·0001). Two patients in the spinal anaesthesia group had headache after the

INTERPRETATION: General and spinal anaesthesia had a similar safety profile and can be applied according to patients' needs and medical situation in the hospital

FUNDING: None.



Práce českých autorů...

Brain Behav. 2018 Sep;8(9):e01082. doi: 10.1002/brb3.1082. Epub 2018 Jul 25.

Obstetric anesthesia/analgesia does not affect disease course in multiple sclerosis: 10-year retrospective cohort study.

Harazim H¹, Štourač P², Janků P³, Zelinková H⁴, Frank K³, Dufek M⁵, Štourač P⁶.

Author information

Abstract

OBJECTIVES: Multiple sclerosis (MS) often occurs in young women and the effect of obstetric anesthesia/analgesia on the disease is poorly understood. No previous study has investigated the course of the disease in women in labor in the Czech Republic. The aim of this study was to evaluate the occurrence or absence of relapses in the 6-month postpartum period in MS parturients with and without obstetric anesthesia/analgesia.

MATERIALS AND METHODS: We retrospectively studied all deliveries (n = 58,455) at the University Hospital Brno from 2004 to 2013 and identified those of the women with an ICD-10 code G35 (MS) recorded anytime in their medical history (n = 428). We included only deliveries of women with confirmed diagnosis at the time of labor (n = 70). Statistical analysis was performed using the Fischer Exact Test.

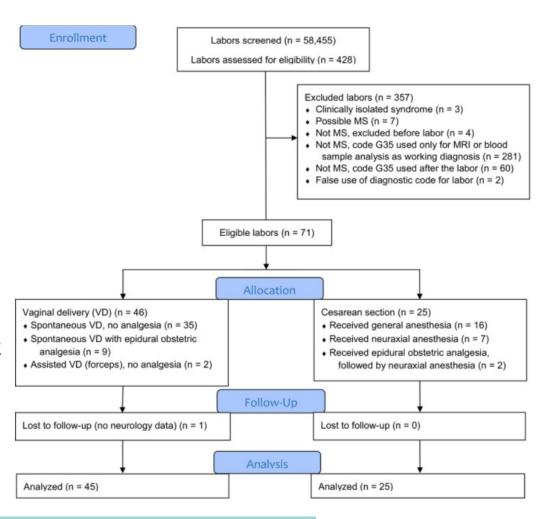
RESULTS: There were 70 deliveries of 65 women, including 45 vaginal deliveries and 25 Cesarean deliveries (16 under general anesthesia, 8 with epidural anesthesia and 1 with spinal anesthesia). Epidural obstetric analgesia was performed in 11 deliveries. There was no statistically significant difference in relapses between the vaginal delivery group (n = 15; 33%) and Cesarean section group (n = 10; 40%), p = 0.611.

CONCLUSION: Neither delivery mode (vaginal vs Caesarean) nor type of obstetric anesthesia/analgesia was found to have any impact on the course of MS at 6 months postpartum in women with this condition.



Práce českých autorů...

- Studijní období 10 let!
- Primární outcome:
 - Vaginální porod 33% relaps v 0-6 měsíci (n=15)
 - CS 40% relaps v 0-6 měsíci (n=8)
- Nebyl shledán statisticky významný rozdíl výskytu relapsu mezi:
 - vaginálním porodem a císařským řezem
 - Vaginálním porodem s či bez epidurální anestezie
 - Císařským řezem v CA (n=7, 44%) a RA (n=3, 33%)





General Anesthesia with the Use of SUPREME Laryngeal Mask Airway for Emergency Cesarean delivery: A Retrospective Analysis of 1039 Parturients.

Fang X¹, Xiao Q², Xie Q³, Liao R⁴, Zhu T⁵, Li S³, Bo Z⁶.

Author information

Abstract

In comparison to electhreatening airway properties (SLMA) in emergency cesarean delivery under measures included in or regurgitation was redecreasing oxygenation endotracheal intubational (including 944 single neonates received er patients undergoing exwarranted).

Table 2

Efficiency of airway and adverse events.

Events (n = 1039)	
Successful placement on first attempt	1037 (99.8)
Change to intubation	0
Desaturation [#]	1(0.1)
Regurgitation	0
Aspiration	0
Laryngospasm or bronchospasm	0

iated with higher risk of life-IE laryngeal mask airway ents undergoing emergency en's Hospital. Outcome omes. Briefly, no aspiration on, one was detected by No subject was switched to ere 1139 neonates es. Thirty-seven (3.28%) ed successfully in 1039 anesthesiologists is

Values are expressed as n (%).

^{*}Desaturation is defined as pulse oximetry less than 93% for at least 1 min.

A survey of practice of rapid sequence induction for caesarean section in England.

Desai N¹, Wicker J², Sajayan A³, Mendonca C⁴.

Author information

Abstract

BACKGROUND: In view of newer techniques of preoxygenation and laryngoscopy and recent obstetric guidelines concerning the management of difficult intubation, we aimed to evaluate the current practice of rapid sequence induction for caesarean section in England.

METHODS: In 2017, 316 questionnaire surveys were posted to all 158 hospitals with caesarean section capabilities in England. At each hospital, one questionnaire was to be completed by the obstetric anaesthetic consultant lead and one by an anaesthetic trainee. Differences in responses between consultants and trainees, regardless of their place of work, were compared for all data using the chi-square and the Fisher's exact tests.

RESULTS: One-hundred-and-eighty complete questionnaires were returned, with an overall response rate of 57%, 98 (54%) from obstetric anaesthetic consultant leads and 82 (45.6%) from trainees). Both head up (57%) and ramped (56%) were the preferred positions for preoxygenation. Less than half of respondents (43%) preoxygenated until the surgeon was scrubbed. Cricoid pressure was used by almost all respondents (98%). Thiopentone (67%) was the most commonly chosen anaesthetic induction agent and most respondents (82%) supported a change to the use of propofol. Suxamethonium (92%) was the neuromuscular blocker of choice but more than half the respondents (52%) supported a change to rocuronium. In the event of a failed intubation, the rescue supraglottic airway device of choice was the i-gel® (65%).

CONCLUSIONS: Our survey demonstrated the significant variation in the practice of rapid sequence induction for caesarean section in obstetrics in the United Kingdom.

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KEYWORDS: General anaesthesia; Induction anaesthetics; Neuromuscular blocking drugs; Obstetrics; Opioids; Positioning; Preoxygenation

- Variabilita postupů i použitých léčiv
- Tiopental vs. Propofol
- Suxametonium vs. Rocuronium



IV anestetika

J Clin Anesth. 2018 Aug;48:73-80. doi: 10.1016/j.jclinane.2018.04.010. Epub 2018 May 26.

Hypnotic agents for induction of general anesthesia in cesarean section patients: A systematic review and meta-analysis of randomized controlled trials.

Houthoff Khemlani K¹, Weibel S², Kranke P², Schreiber JU³.

Author information

Abstract

STUDY OBJECTIVE: An ideal induction drug for cesarean section (CS) must have quick action, with minimum side effects such as awareness, hemodynamic compromise, and neonatal depression. Thiopentone is frequently used; however, no reliable evidence is available to support its use as a dedicated hypnotic agent in this setting.

DESIGN: A systematic review and meta-analysis, using PRISMA methodology, of randomized controlled trials (RCTs), comparing women undergoing CS using thiopentone with those undergoing CS with propofol, ketamine, or benzodiazepines as hypnotic agents.

DATA SOURCES: Comprehensive search without language restrictions of MEDLINE, EMBASE, and the Cochrane Controlled Trials Registers until May 2015, with an update in January 2017. Included trials must have reported at least one of the following variables: neonatal arterial or venous umbilical blood gas, maternal systolic blood pressure pre- and post-intubation, or Apgar score.

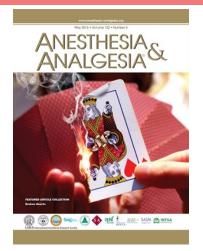
MAIN RESULTS: A total of 911 patients from 18 RCTs were eligible for quantitative analysis. The increase in maternal systolic blood pressure was smaller in patients administered propofol, compared with those administered thiopentone (weighted mean difference [WMD]: -11.52 [-17.60, -5.45]; p = 0.0002). Induction with propofol also resulted in a significantly lower umbilical arterial pO_2 (WMD: -0.12 [-0.20, -0.04]; p = 0.004) than induction with thiopentone. A comparison between propofol and thiopentone revealed no significant differences in other umbilical blood gas parameters or in Apgar scores. In contrast, when comparing ketamine with thiopentone, the number of neonates with a lower Apgar score (<7) at 1 and 5 min was significantly higher in the ketamine group than in the thiopentone group (p = 0.004).

CONCLUSION: The evidence, based on sparse and relatively old trials, indicates that propofol and thiopentone are equally suited for CS. After 1 and 5 min, ketamine yields lower Apgar scores than thiopentone. Additional well-designed trials are needed to reach firmer conclusions.



Low-Dose or High-Dose Rocuronium Reversed with Neostigmine or Sugammadex for Cesarean Delivery Anesthesia: A Randomized Controlled Noninferiority Trial of Time to Tracheal Intubation and Extubation

Petr Stourac, MD, PhD,* Milan Adamus, MD, PhD,† Dagmar Seidlova, MD, PhD,‡ Tomas Pavlik, MSc, PhD,§ Petr Janku, MD, PhD,I Ivo Krikava, MD, PhD,¶ Zdenek Mrozek, MD, PhD,† Martin Prochazka, MD, PhD,# Jozef Klucka, MD,* Roman Stoudek, MD,* Ivana Bartikova, MD,¶ Martina Kosinova, MD,¶ Hana Harazim, MD,¶ Hana Robotkova, MD,‡ Karel Hejduk, MSc,§ Zuzana Hodicka, MD, PhD,I Martina Kirchnerova, MD,† Jana Francakova, MD,† Lenka Obare Pyszkova, MD,† Jarmila Hlozkova, MD,† and Pavel Sevcik, MD, PhD**



Čas do intubace: Rokuronium je noninferiorní k suxamethoniu Méně resistence k laryngoskopii ve skupině s rokuroniem Méně pooperačních komplikací ve formě myalgií ve skupině s rokuroniem

	ROC group	(n = 120)	SUX group	(n = 120)	
	n	%	n	%	Pa
Resistance to laryngoscopy					0.019
None	105	88	89	74	
Mild (slight)	14	12	25	21	
Severe (active)	1	1	6	5	
Position of vocal cords					0.48
Medial	38	32	47	39	
Paramedial	11	9	8	7	
Partially abducted	12	10	15	13	
Fully abducted	59	49	50	42	
Laryngoscopic view (Cormack-Lehane)					0.30
I and II	116	97	110	92	
IIIA and greater	4	3	10	8	
Response to intubation attempt					0.26
None	71	59	70	58	
Cardiovascular ^b	42	35	36	30	
Limb movement or cough	7	6	14	12	











International Journal of Obstetric Anesthesia

NOVEMBER 201

EDITORIAL Fraginis analysis – does choice of muscle relaxant obstetnic general anaesthesia influence nearvatal outcomes? M. Racklidge OBSCINAL ARTICLES

In Elphani, N. Janahii, P.R.S. Seres, S. Shaheliri an IN Neglimital Neurosial labor analgenia is not an independen predictor of perinasi lucerations after seglini of of patients with histoauther feeding demise J.H. Lee, J.M. Carally S.J. McCarally Intiasensus desendedaminine for cesarean de and its concentration in solutions. Into adhormal pressure and retros dedoernal propertiessis in citically it detesters persented as prospection colorest study. A detester of A Typel, 5. Signly, M. Komer and A.K. Serbi household effects after recorpersal during spiral seconds of the study of the second color second color of the second color for the second color of the second K. Unprinciple of the second color A prospective study of post consense delivery byson there grind are released with interesting merciples.

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EVENUS

Held: new in clinical obstatric anesthesia in 20157

E. Hess

review and meta analysis of sandomized trials. 5. Crespo, G. Dangether and G. Haller CASE REPORTS Introduced hermatoms and arachrocidits mireickin bacterial meningitis after an epidual blood punish f. Bry-Geol, N. Engured, E. Leongeretter and

f. Rey-Cesh, N. Segrand, E. Interpettier and H-P. Bonnet. Ethical and medical management of a program surrous with brain stem death resulting in delivery a healthy olds and organ disnation. A. Capithvić, B. Roth, H. Vulck, A. Horset, H. Siran, E. Gurannott, V. Kisler and A. Kisler.

ORIGINAL ARTICLE

Rocuronium versus suxamethonium for rapid sequence induction of general anaesthesia for caesarean section: influence on neonatal outcomes

M. Kosinova, P. Stourac, M. Adamus, D. Seidlova, T. Pavlik, P. Janku, I. Krikava,

Z. Mrozek, M. Prochazka, J. Klucka, R. Stoudek, I. Bartikova, H. Harazim,

H. Robotkova, K. Hejduk, Z. Hodicka, M. Kirchnerova, J. Francakova,

L. Obare Pyszkova, L. Hlozkova, P. Sevcikh

Rokuronium 1 mg/kg

- Ovlivňuje hodnoty Apgar skóre novorozence v 1. minutě ve srovnání se sukcinylcholinem
- Na další parametry poporodní adaptace novorozence včetně Apgar skóre v 5. a 10. minutě či parametry ABR pupečníkové krve statisticky významný vliv nemá.



- Re: Influence on neonatal outcomes of rocuronium for rapid sequence induction of general
- 1. <u>anaesthesia for caesarean section.</u>

Carlos RV, Nani FS, de Boer HD.

Int J Obstet Anesth. 2018 Aug;35:112-113. doi: 10.1016/j.ijoa.2018.01.011. Epub 2018 Mar 9. No abstract available.

PMID: 29628201 Similar articles

- Rocuronium versus suxamethonium for rapid sequence induction of general anaesthesia for
- 2. <u>caesarean section: influence on neonatal outcomes.</u>

Halpern SH.

Int J Obstet Anesth. 2018 Aug;35:114. doi: 10.1016/j.ijoa.2018.02.002. Epub 2018 Feb 9. No abstract available.

PMID: 29534952 Similar articles

- Re: Influence on neonatal outcomes of rocuronium for rapid sequence induction of general
- 3. <u>anaesthesia for caesarean section.</u>

Kosinova M, Klucka J, Stourac P.

Int J Obstet Anesth. 2018 Aug;35:113-114. doi: 10.1016/j.ijoa.2018.01.010. Epub 2018 Feb 7. No abstract available.

PMID: 29534951 Similar articles



Opioidy

- Transplacentární přestup
- Riziko dechové deprese novorozence
- Bezpečné podání po přestřižení pupečníku

Výjimka u rizikových skupin rodiček:

- Preeklampsie:
 - Remifentanil 1.0 mcg/kg pomlý i.v. bolus 30s před úvodem do CA preeklampsie
- Nutná dostupnost antidota na porodním sále př. Naloxon

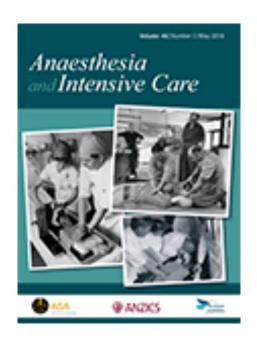


Effect on neonatal outcome of pharmacological interventions for attenuation of the maternal haemodynamic response to tracheal intubation: a systematic review.

Aman A, Salim B, Munshi K, Raza SA, Khan FA. Anaesth Intensive Care. 2018 May;46(3):258-271. **Review**.

PMID: 29716484 Similar articles

Podání opioidů k ovlivnění hemodynamické odpovědi na intubaci v rámci RSI u rodiček podstupujících císařský řez **vede k ovlivnění novorozence** v Apgar skóre v 5. minutě, ale ovlivnění se nezdá klinicky relevantní.



Operating room-to-incision interval and neonatal outcome in emergency caesarean section: a retrospective 5-year cohort study.

Palmer E^{1,2}, Ciechanowicz S¹, Reeve A¹, Harris S^{1,2}, Wong DJN³, Sultan P^{1,2}.

Author information

Abstract

We conducted a 5-year retrospective cohort study on women undergoing caesarean section to investigate factors influencing the operating room-to-incision interval. Time-to-event analysis was performed for category-1 caesarean section using a Cox proportional hazards regression model. Covariates included: anaesthetic technique; body mass index; age; parity; time of delivery; and gestational age. Binary logistic regression was performed for 5-min Apgar score \geq 7. There were 677 women who underwent category-1 caesarean section and who met the entry criteria. Unadjusted median (IQR [range]) operating room-to-incision intervals were: epidural top-up 11 (7-17 [0-87]) min; general anaesthesia 6 (4-11 [0-69]) min; spinal 13 (10-20 [0-83]) min; and combined spinal-epidural 24 (13-35 [0-75]) min. Cox regression showed general anaesthesia to be the most rapid method with a hazard ratio (95%CI) of 1.97 (1.60-2.44; p < 0.0001), followed by epidural top-up (reference group), spinal anaesthesia 0.79 (0.65-0.96; p = 0.02) and combined spinal-epidural 0.48 (0.35-0.67; p < 0.0001). Underweight and overweight body mass indexes were associated with longer operating room-to-incision intervals. General anaesthesia was associated with fewer 5-min Apgar scores \geq 7 with an odds ratio (95%CI) of 0.28 (0.11-0.68; p < 0.01). There was no difference in neonatal outcomes between the first and fifth quintiles for operating room-to-incision intervals. General anaesthesia is associated with the most rapid operating room-to-incision interval for category-1 caesarean section, but is also associated with worse short term neonatal outcomes. Longer operating room-to-incision intervals were not associated with worse neonatal outcomes.

CA – nejrychlejší čas "vstup na operační sál - operační řez"

CA – nejhorší krátkodobý novorozenecký outcome – nižší Apgar skóre v 5. minutě

Delší čas "vstup na operační sál - operační řez" nebyl asociován s horším novorozeneckým outcome



Hloubka anestezie, "awereness"

Saudi Med J. 2018 Jun;39(6):579-585. doi: 10.15537/smj.2018.6.22376.

Effect of magnesium sulfate on anesthesia depth, awareness incidence, and postoperative pain scores in obstetric patients. A double-blind randomized controlled trial.

Altıparmak B¹, Çelebi N, Canbay Ö, Toker MK, Kılıçarslan B, Aypar Ü.

ABSTRACT

الأهداف: لتقييم آثار المغنيسيوم على عمق التخدير وتحديد أثر المغنيسيوم على حدوث الوعي والألم بعد العملية الجراحية بعد الولادة القيصرية.

الطويقة: صممت الدراسة على أنها دراسة مزدوجة التعمية وعشوائية وأجريت في مستشفى جامعة حجة تبة، أنقره، تركيا خلال الفترة من يناير 2015م حتى مارس 2016م. اشتملت الدراسة على 100 امرأة حامل تراوحت أعمارهم بين 14-17 عام ، ASA او القرر إجراء عملية قيصرية مع التخدير العام. بعد التحريض sevoflurane في المجموعة B و desflurane في المجموعة D-M (مجموعات المراقبة). في المجموعة M-S ومجموعة الدراسة)، بدأ حقن المغنيسيوم بتخدير سيفوفلوران وديسلورية . كما تم الحفاظ على أدنى تركيز من سيفوفلوران وديسلورية . شجلت نتائج مؤشر (BIS)، واستهلاك الفنتانيل وقيم مقياس التماثلية البصرية (VAS) بعد العملية الجراحية ومتابعة جميع المرضى حتى السنة الأولى بعد العملية الجراحية للتوعية .

النتائج: كانت المتغيرات الديمغرافية للمرضى مماثلة. كانت قيم BIS أعلى بشكل ملحوظ في مجموعات التحكم طوال العملية (p<0.001). لم يظهر أي اختلاف كبير لاستهلاك الفنتانيل أثناء العملية وفترة التوعية. كانت قيم VAS أقل بشكل ملحوظ في مجموعات الدراسة (p<0.05).

الخاتمة: ضخ المغنيسيوم يوفر قيم BIS أقل أثناء العمليات بشكل كبير وانخفاض درجات VAS بعد العملية الجراحية . نحن نعتقد أن المغنيسيوم يمكن أن يكون مفيداً كمساعد للتخدير العام .

- Magnezium jako adjuvans k celkové anestezii u císařského řezu
- Peroperační infuze magnezia poskytla nižší peroperační BIS hodnoty a nižší pooperační VAS.

Table 1 - Patient's characteristics, operation time, and BIS values at different time-points between Sevo and Group Sevo+Mg groups.

Variables	Sevo	Sevo + Mg	P-value
Age (years)	29.7 ± 5.1	30.2 ± 5.8	0.758
Weight (kg)	73.4 ± 14.2	77.5 ± 11.8	0.267
Operation time (min)	47.4 ± 11.19	44.8 ± 7.96	0.349
BIS			
BIS 0	95.9 ± 2.76	95.3 ± 2.88	0.456
BIS 5	50.8 ± 7.8	39.2 ± 5.5	< 0.001
BIS 20	55.6 ± 6.08	40.9 ± 7.4	< 0.001
BIS end	64.8 ± 7.5	53.0 ± 8.2	< 0.001

Values are expressed as mean±SD. Sevo - sevoflurane, des - desflurane, Mg - magnesium sulphate, BIS - bispectral index score, BIS 0 - BIS value before induction, BIS 5 - BIS value 5 minutes after induction, BIS 20 - BIS value 20 minutes after induction, BIS end - BIS value at the end of the operation

Des	Des + Mg	P-value
30.2 ± 4.3	29.7 ± 4.78	0.735
79.9 ± 14.7	77.1 ± 14	0.501
46.28 ± 5.8	44.96 ± 5	0.389
95.2 ± 3.05	96.28 ± 2.4	0.191
45.96 ± 6.5	35.96 ± 5.1	< 0.001
52.6 ± 7.1	$4 \cdot 1.1 \pm 9.78$	< 0.001
62.88 ± 4.5	50.88 ± 8.3	< 0.001

Brno



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