

Opioid som standard ved indledning af generel anæstesi til kejsersnit

Tværfagligt obstetrisk symposium
2025

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Fast remifentanil til indledning ved GA

Table 3 Neonatal outcome

	Remifentanil group (n = 76)	Standard group (n = 75)	P value
Apgar score			
1-minute	8.1 ± 2.0	8.9 ± 1.4	0.005
5-minute	9.2 ± 1.1	9.6 ± 0.8	0.022
10-minute	9.8 ± 0.5	9.8 ± 0.4	0.198
Apgar score 0 -7			
1-minute	19 (25.0%)	7 (9.3%)	0.017
5-minute	5 (6.6%)	2 (2.7%)	0.442
10-minute	0 (0%)	0 (0%)	-
Need for respiratory support			
Tactile stimulation	16 (21.1%)	5 (6.7%)	0.017
CPAP	5 (6.6%)	5 (6.7%)	0.983
Mechanical ventilation	0 (0%)	0 (0%)	-
Administration of naloxone	0 (0%)	0 (0%)	-

Table 5 Maternal haemodynamic profiles

	Remifentanil group (n = 76)	Standard group (n = 75)	P
Systolic blood pressure (mmHg)			
Baseline	140.8 ± 16.2	140.6 ± 18.0	0.948
At intubation	145.4 ± 23.5	164.1 ± 26.4	<0.0001
At delivery	146.6 ± 22.5	149.9 ± 25.4	0.444
At 10 min after induction	125.7 ± 17.3	122.5 ± 17.0	0.283
Heart rate (bpm)			
Baseline	89.4 ± 12.8	93.1 ± 16.9	0.187
At intubation	91.8 ± 16.6	109.7 ± 17.2	<0.0001
At delivery	88.9 ± 13.7	101.3 ± 20.1	<0.001
At 10 min after induction	73.0 ± 16.3	76.6 ± 14.7	0.204

✓ Data are presented as mean ± standard deviation. Baseline means time before induction to general anaesthesia.

Maternal and Neonatal Effects of Remifentanyl at Induction of General Anesthesia

A Rand

Warwick D.
Kwok C. M.
Bee B. Lee,

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Original

Remifentanyl
randomized

Remifentanyl
clinical trial

Behdad Sh

Maternal and fetal

anesthesia

Pediatric Drugs (2023) 25:537–555

<https://doi.org/10.1007/s40272-023-00583-w>

SYSTEMATIC REVIEW

Fetal, Preterm, and Term Neonate Exposure to Remifentanyl: A Systematic Review of Efficacy and Safety

Arielle Maroni¹ · Marie-Stéphanie Aubelle² · Clément Chollat^{3,4}

Effect of remifentanyl for general anesthesia
undergoing
analysis

ELSEVIER
Anesthesiology

Li, Jingui GAO *

Shijiazhuang, China

lok^{g,h}

Så hvad ved vi om remifentanil?

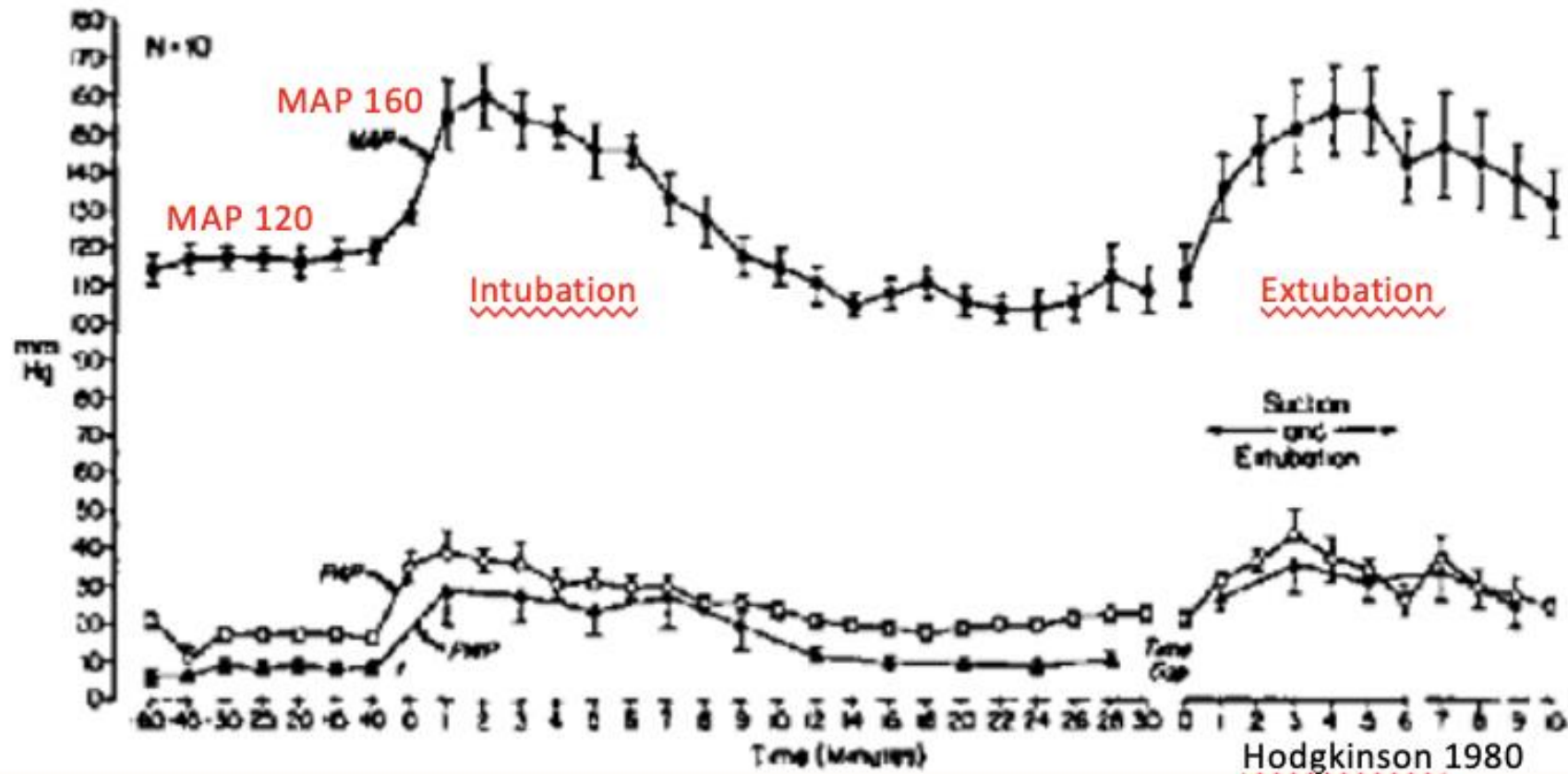
- 1 min. Apgar
 - Flere neonatale med Apgar score < 7 ved remifentanil
- Ikke øget forekomst af neonatal ventilation eller intubation
- 5 min. Apgar
 - Ingen statistisk signifikant forskel mellem remifentanil og placebo
- Maternelt BT
 - Signifikant lavere systolisk blodtryk efter intubation

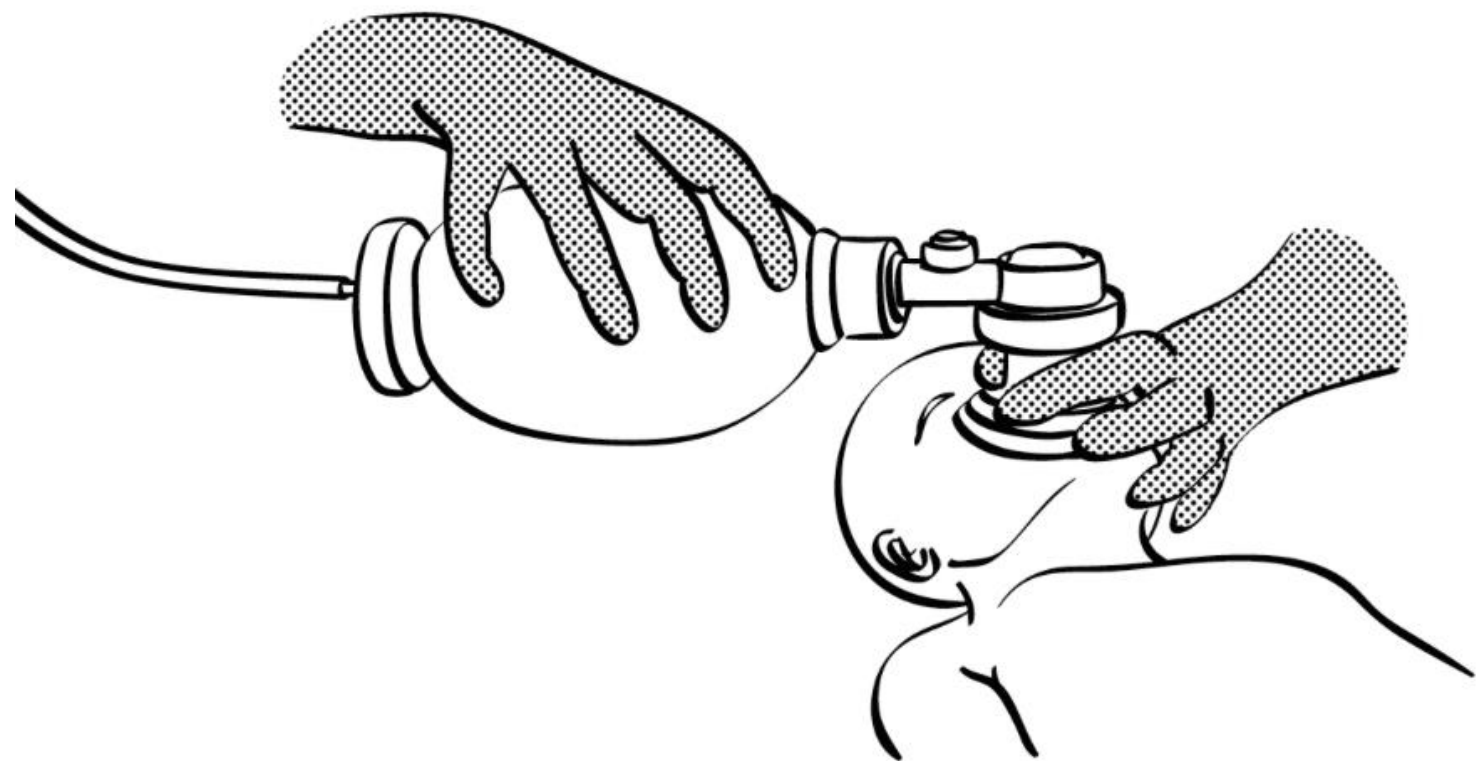
Maternelt blodtryk

- Præeklampsi
- Opioid nedsætter reflekshypertension ved intubation/extubation



Mean and S.E. of MAP, PaP, and PWP of Pre-Eclamptic Patients Undergoing Caesarean Section Under Thiopental and Nitrous Oxide (40%) Anesthesia With 0.5 % Halothane





Neonatal effekt

- Ratio mellem koncentrationen af remifentanil i navlevene og maternal arterie: 0,7
- Case serier med rapporter om neonatal effekt: Kortvarig (1-5 min.) respiratorisk depression, taktil stimulation og maskeventilation
- Men igen: RCT'er har ikke kunne vise effekt på respiratoriske interventioner udover øget behov for kortvarig taktil stimulation i remifentanil gruppen

Remifentanil har kort halveringstid – også hos neonatale

REVIEW ARTICLE

Drugs 2006; 66 (10): 1339-1350

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> [Anesthesiology](#). 2011 Mar;114(3):570-7. doi: 10.1097/ALN.0b013e318204e043.

Experience with Remifentanil in Neonates and Infants

Lars Welzing and Bernhard Roth

Department of Neonatology and Pediatric Intensive Care, Children's Hospital University of Cologne, Cologne, Germany

Remifentanil degradation in umbilical cord blood of preterm infants

Lars Welzing¹, Sabine Ebenfeld, Verena Dlugay, Martin H J Wiesen, Bernhard Roth, Carsten Mueller

What This Article Tells Us That Is New

- With the use of umbilical blood to assess nonspecific esterase metabolism of remifentanil, blood from preterm neonates was found to be similar to term neonates in the rate of remifentanil metabolism

Opsummering

- Godt for mater, sænker det hypertensive respons
- Sikkert for neonatale, minimal respiratorisk påvirkning, taktil stimulation, apgar ved 5 min. er uforandret

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generel anæstesi til kejsersnit