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Problems Associated with Spinal Anesthesia Medications for Spinal Anesthesia Summary of Spinal Anesthesia for Cesarean Section Contraindications for Spinal Anesthesia for Cesarean Section

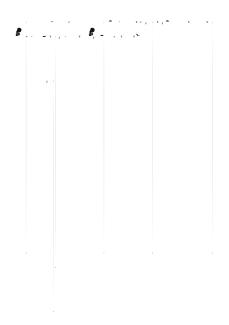
Problems Associated with Epidural Anesthesia
Complications of Epidural Anesthesia
Contraindications for Epidural Anesthesia
Local Anesthetics for Epidural Anesthesia
Summary of Epidural Anesthesia for
Cesarean Section
Cardiovascular Complications of
Bupivacaine and Neurological
Complications of 2-Chloroprocaine
Differences Between Spinal and Epidural
Anesthesia for Cesarean Delivery

Maternal Aspiration Airway Management

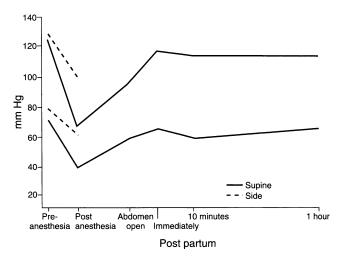
Regional Anesthesia General Anesthesia

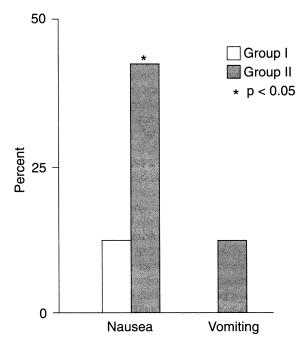
Underlying Physiology Pharmacological Effects

Obstetric Anesthesia Handbook



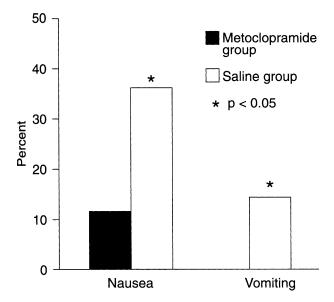
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12-2. Incidence of nausea and vomiting with intravenous droperidol following delivery of the fetus during cesarean section (group 1-droperidol, group 2-saline).²⁹

x, 1, - x .



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12-1. Medications for Spinal Anesthesia

D . C .	D , A
0.5% tetracaine in 5%	90-120 min
dextrose 5% lidocaine in 7.5%	45-60 min
dextrose in water 0.75% bupivacaine in	90-120 min
8.5% dextrose in water 0.5% bupivacaine in 8.0%	90–120 min but not yet
dextrose in water 5% meperidine in 10%	approved by FDA 45–50 min
dextrose, same	40-30 mm
volume to make it hyperbaric	

μ

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12-2. Local Anesthetics for Cesarean Delivery

		D .	-
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Pregnant animals were found to be more sensitive than nonpregnant animals to the cardiotoxic effects of bupivacaine. Cardiac resuscitation following bupivacaine toxicity was much more difficult than in the case of lidocaine

As a rule, the cardiovascular system is more resistant than the CNS to local anesthetic.

V

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12–3. Di erences Between the Spinal and Epidural Anesthesia for Cesarean Delivery

A Advantages

Simple, rapid, reliable

Minimal drug exposure

Minimal drug exposure

Minimal drug exposure

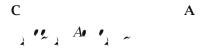
Avoidance of dural puncture
Provide anesthesia for longer
duration
Use for postoperative
analgesia

Disadvantages

More complex procedure

Longer onset of time

Hypotension Nausea and vomiting Limited duration of action unless a continuous catheter technique is utilized



Nonparticulate antacids sodium citrate or Bicitra avoids this problem.



Parturients decrease arterial oxygen saturation faster than nonpregnant women (Table 12-4), and this is related to increased oxygen consumption and decreased functional residual capacity.

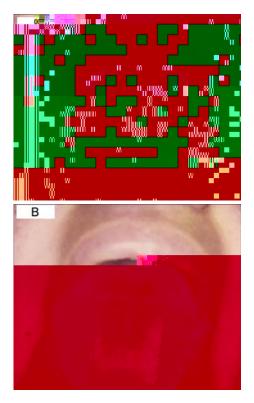
Norris and Dewan compared two methods of preoxygenation: 100% oxygen for

12-4. Maternal Oxygen Tension in Pregnant and Nonpregnant Patients Following Apnea

	*			
	•	A		A
	В	\mathbf{A}	В	Α
	A	(1)	A	(1)
PaO ₂ (mmHg)	$473\pm34^*$	$334\pm43^*$	507 ± 38	449 ± 40
PaCO ₂ (mmHg)	31.4 ± 2.4	40.4 ± 2.7	35.6 ± 1.8	44.3 ± 1.1
рН	7.41 ± 0.02	7.33 ± 0.01	7.45 ± 0.02	7.35 ± 0.01

< 0.05. From Archer et al.¹⁵¹

3 min vs. four maximal deep breaths in 30 s. The

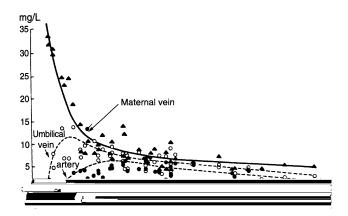


 $\fill 12$ –7. Airway pictures () pre-labor (Samsoon's modification of Mallampati class 1 airway), and () post-labor

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The concentration of umbilical vein blood remains lower than that of maternal vein blood;



 $_{\bullet}$ 12–12. Thiamylal concentrations in the maternal vein, umbilical vein, and umbilical artery. (From Kosaka et al. 116 Used with permission.)

the concentration of umbilical artery blood is lower than that of umbilical vein blood. These gradients result from (1) a rapid decline in concentration of thiobarbiturate in maternal blood secondary to rapid redistribution, (2) nonhomogeneous distribution in the intervillous space, (3) extraction of thiobarbiturate from umbilical vein blood by the fetal liver, and (4) progressive dilution through shunting in the fetal circulation.

d

before the use

of succinylcholine to prevent fasciculations and an associated increase in intragastric pressure

parturients rarely exhibit fasciculations after succinylcholine; succinylcholine produces inconsistent and unpredictable elevations in intragastric pressure; succinylcholine tends to increase lower esophageal sphincter pressure in association with increased intragastric pressure, and thus the barrier pressure remains essentially unchanged;

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Anaesthesia

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Anesthesiology

Anesthesiology

Reg

Anesth

Anaesth Intensive Care

Anesth Analg

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Anesth Analg

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Anesthesiology

Int J Obstet Anesth

Anesth Analg

Br J Anaesth

Can J Anaesth

Chest

Anesthesiology

Anaesthesia

Anesthesiology

Br J

Anaesth

J Clin Anesth

Can J Anaesth

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J Anesth

Epidural Analgesia