

Case report 2

Laurent Thierrin

Winterthur, April 17th 2010

SAOA

Spring meeting 2010



Patient description

- 39 years old
- 2G-0P, 34 weeks gestation, 60kg
- Relative emergency C-section for moderate preeclampsia associated with IUGR
- Normal placental location
- Normal platelet count

Past medical history

- Good health
- No allergy
- Median laparotomy for myomectomy in 2002 in Sri Lanka (GA, PONV)

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DIAGNOSIS CARD

Name *Mrs. A. Udayabawani*
Address

Unit No. *M/1988* Room No. *206* Age *32y*
Date of Admission *31/5/02*
Date of Discharge *4/6/02*
Consultant

Dr. (Mrs) P.G. SENTHILNATHAN
M.B.B.S. (S.L) D.C.H. (S.L)
M.S. (Obs. & Gynae)
CONSULTANT OBSTETRICIAN
GYNAECOLOGIST

DIAGNOSIS Fibroid



uterus = 28 weeks size

Hb - 14.7g/l

all pre-op ix - normal

INVESTIGATIONS & TREATMENT MYOMECTOMY

was done under GA

R/ Paramedian incision. uterus was enlarged to 28 weeks size with single 15x10 cm anterior wall fibroid. myomectomy done. cavity not opened. Haemostasis achieved. ^{Follow up Measures} Closure done. ~~skin was sutured with subcutaneous wound.~~

Post-op
uneventful

House Officer

Review in 2 weeks

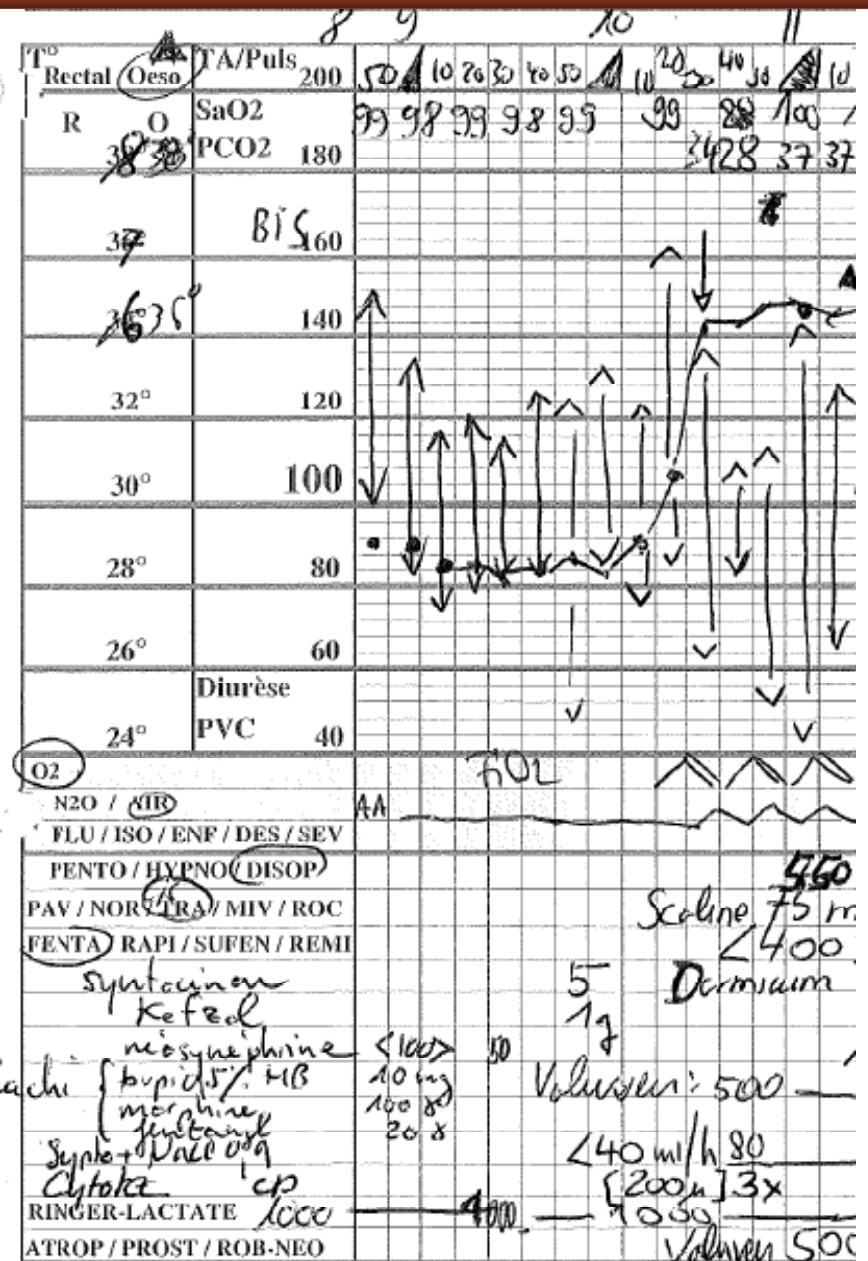
Past medical history

- Good health
- No allergy
- Median laparotomy for myomectomy in 2002 in Sri Lanka (GA, PONV)
- C-section for IUFD in 2005 (spinal)
- Hysteroscopy for infertility in 2006 (GA with LMA)

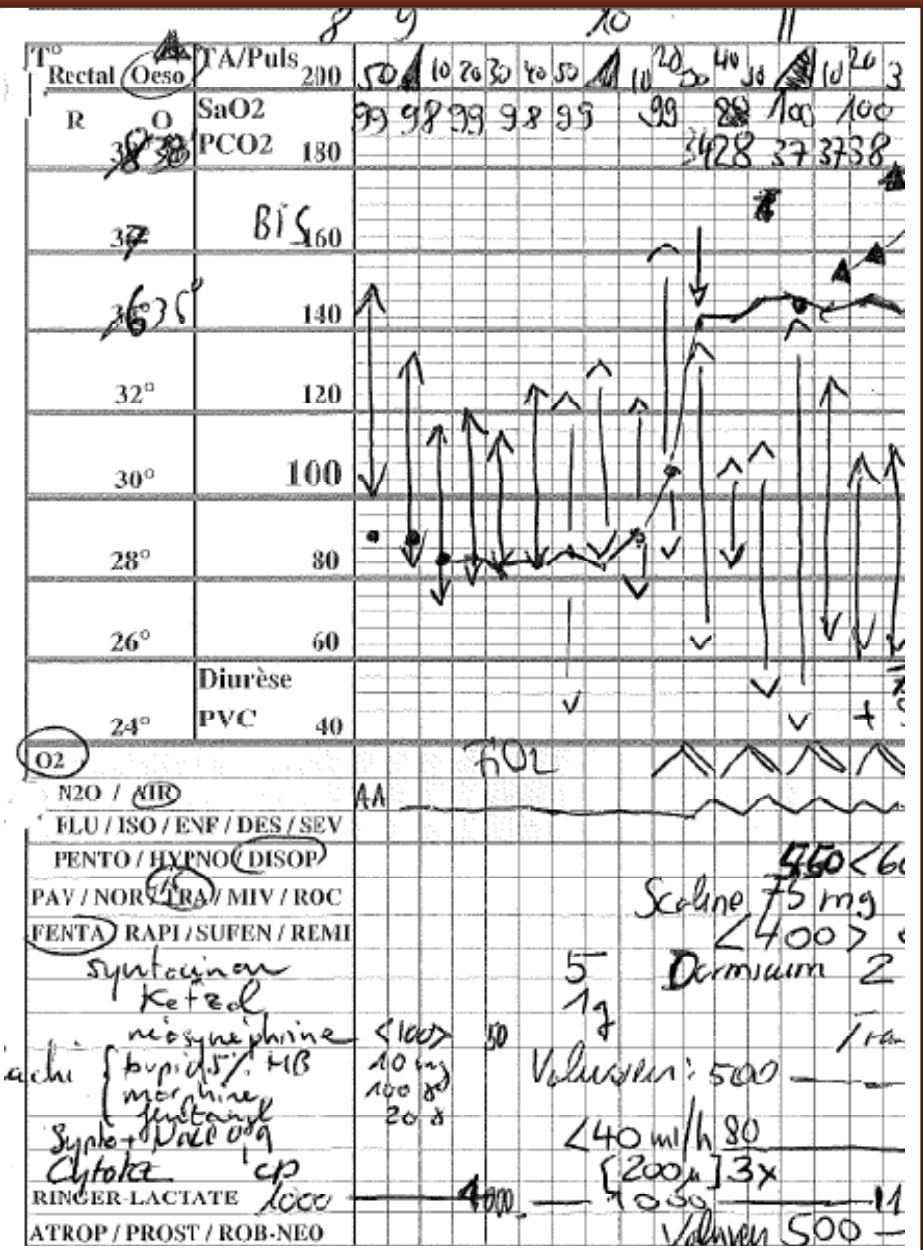
- Spinal anesthesia
- 09:13 Incision
- Median laparotomy
- Very difficult surgical dissection due to fibrosis
- 09:48 Hysterotomy
- 09:50 Birth (APGAR 9-10-10)

		8		9		10			
T° Rectal	(Oeso)	TA/Puls	200	50	10	20	30	40	50
R	O	SaO2	180	99	98	99	98	99	99
		PCO2	180						
		BiS	60						
		37°	140						
		36°	120						
		32°	100						
		30°	80						
		28°	60						
		26°	40						
		Diurèse							
		PVC	40						
(O2)				F02					
N2O / AIR				AA					
FLU / ISO / ENF / DES / SEV									
PENTO / HYPNO / DISOP									
PAV / NOR / TRA / MIV / ROC									
FENTA / RAPI / SUFEN / REMI									
Syntacine				5					
Kefal				1g					
nicotinephine		<100>		30					
achi		bupiv		10 mg		Volu			
		5%		100 mg					
		morphine		20 mg					
		fentanyl							
		Syntacine							
		Naloxone							
		Chytol							
RINGER-LACTATE		1000				4000			

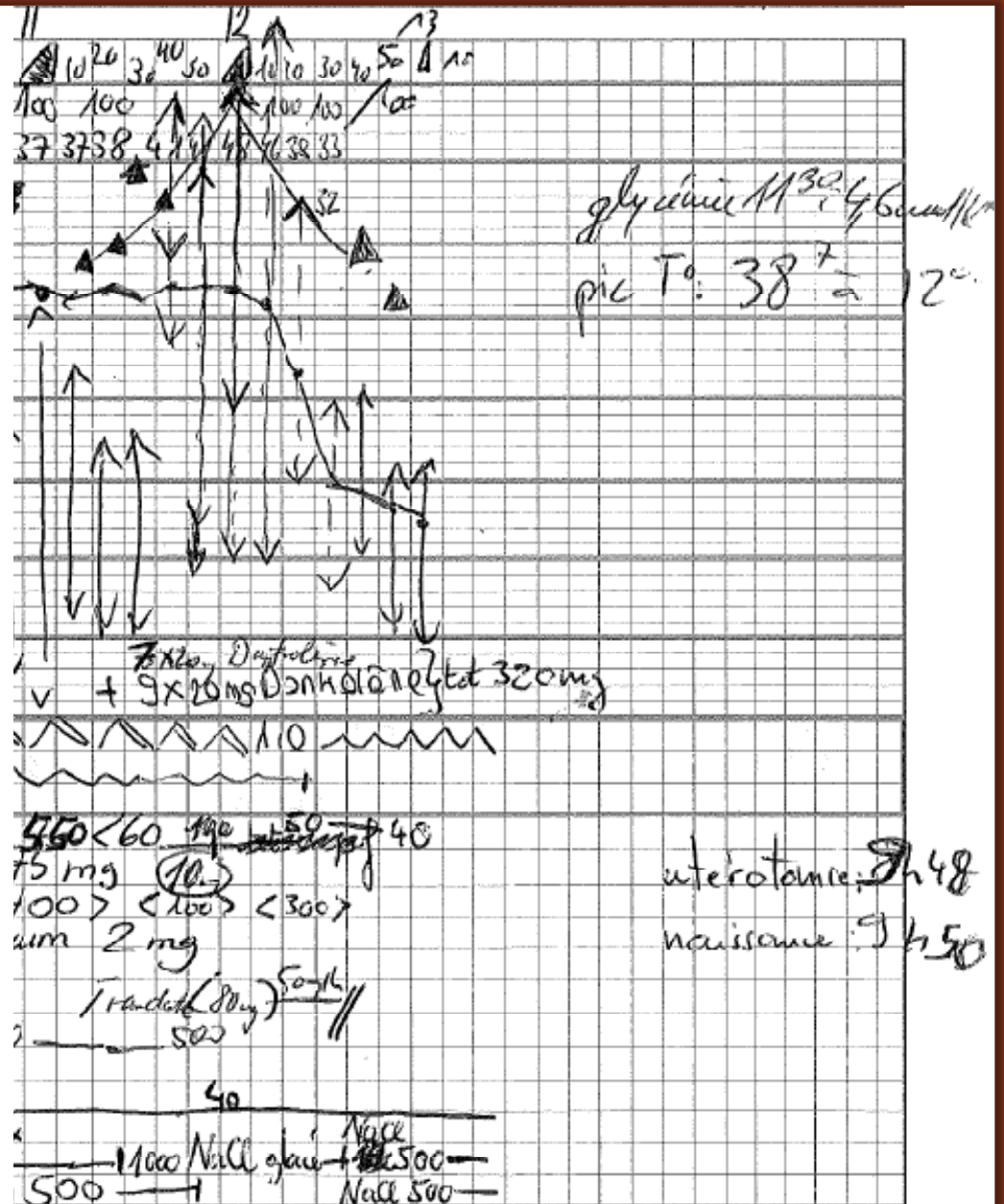
- 10:00 surgical bleeding not controlled
- Intravenous colloid load
- 10:20 The patient begins to have pain
- Increasing tachycardia and hypertension
- 10:30 Conversion to GA, RSI with propofol and suxamethonium, then fentanyl
- 10:45 Persisting tachycardia 145 bpm, normal BP
- Movements of the arms (tonico-clonic spasms)



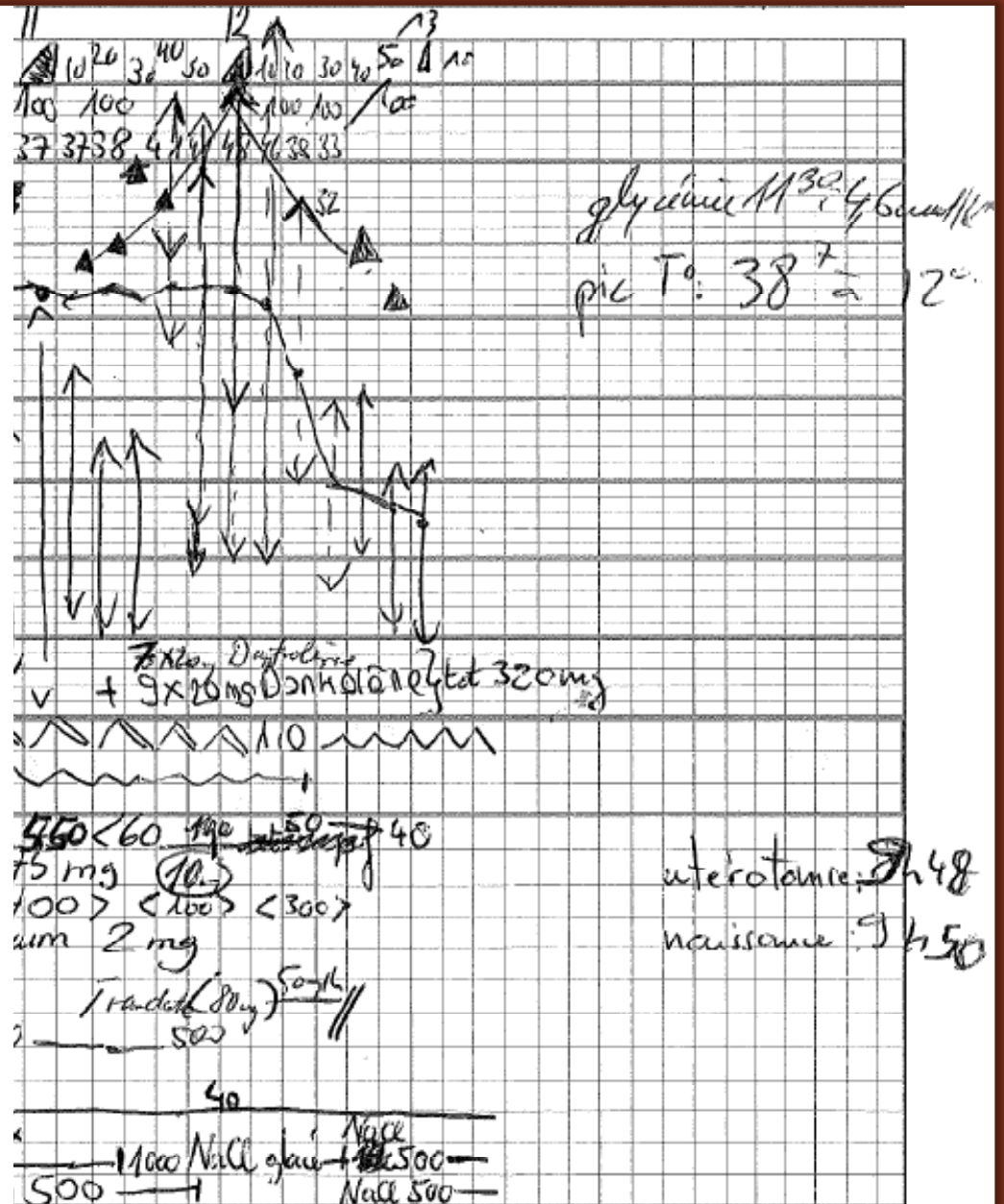
- Evoked diagnosis : light anesthesia → deepened
- 11:00 Persisting tachycardia and muscular movements
- $ETCO_2$ 37mmHg, controlled ventilation 5 l'
- 11:15 T 36.9



- 11:30 end of surgery
- Anesthesia lightened
- Persisting tachycardia and muscular movements
- T 37.2 (+ 0.3)
- Spontaneous major hyperventilation with $ETCO_2$ 41mmHg
- 11:35 T 37.3
- 11:40 T 37.6
- $ETCO_2$ 41mmHg
- HR 150 bpm
- \uparrow BP 160/100mmHg



- 11:40 Diagnosis of MH
- Call for help
- iv dantrolene
- GA deepened
- Already on 100% O₂
- ↓ room T to 18 C
- Blankets out
- Cold NaCl perfusion
- BP 180/100mmHg
- iv labetalol
- Femoral AC + VA
- Blood gas



Blood gas

Valeurs des gaz du sang

pH	7.322	
$p\text{CO}_2$	43.1	mmHg
$p\text{O}_2$	433	mmHg

Valeurs corrigées de la temp.

pH(T)	7.322	
$p\text{CO}_2(T)$	43.1	mmHg
$p\text{O}_2(T)$	433	mmHg
$p50(T)_e$	28.83	mmHg

Valeurs d'oxymétrie

ctHb	10.6	g/dL
Hct _C	32.8	%
sO ₂	98.9	%
FO ₂ Hb _e	98.1	%

Valeurs des métabolites

cLac	2.9	mmol/L
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Etat d'oxygénation

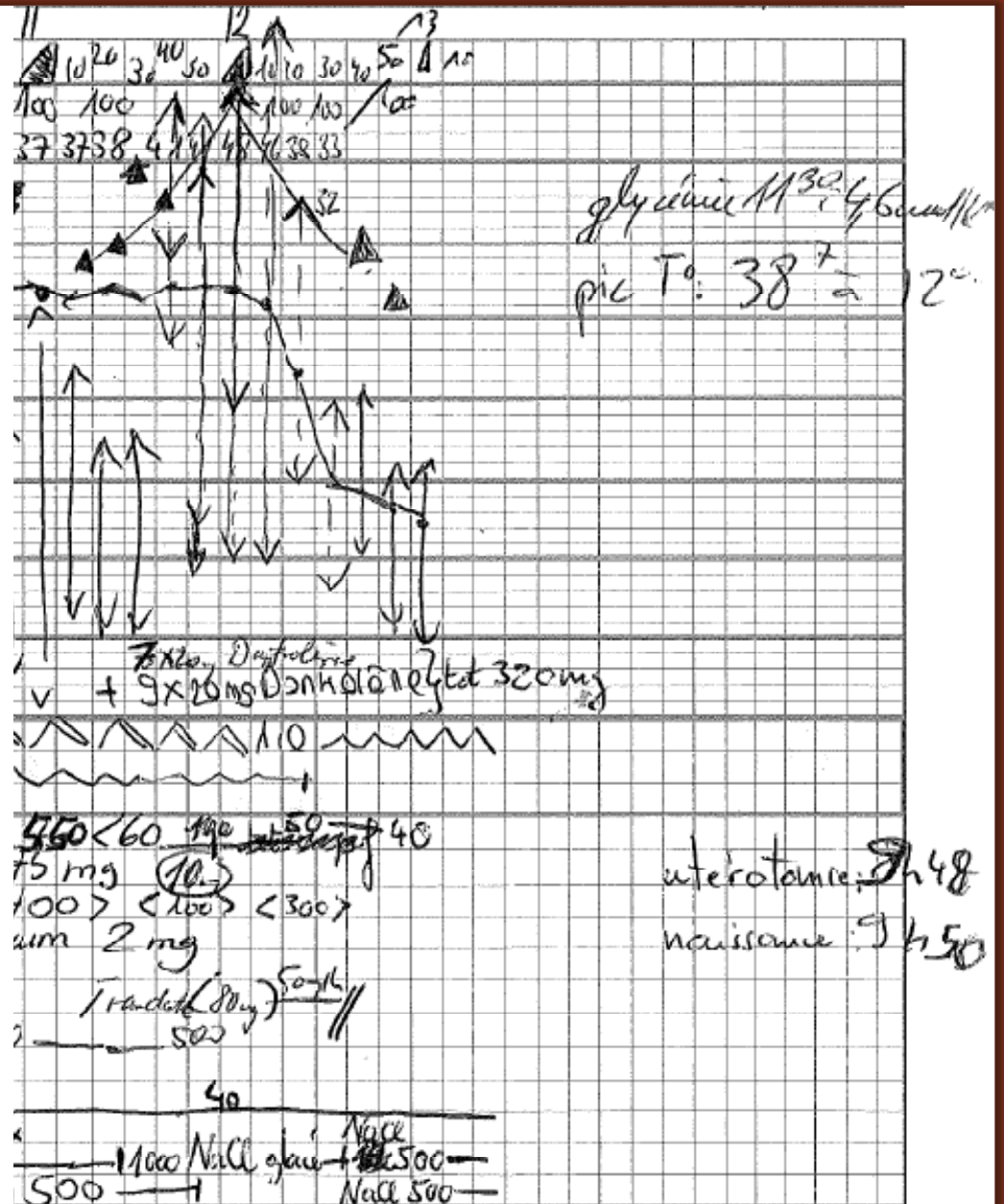
ctO _{2e}	15.8	Vol%
$p50_e$	28.83	mmHg

Etat acido-basique

$c\text{HCO}_3^-(P)_C$	21.7	mmol/L
$c\text{HCO}_3^-(P,st)_C$	21.4	mmol/L
$ct\text{CO}_2(P)_C$	51.6	Vol%
ABE _C	-3.6	mmol/L
SBE _C	-3.4	mmol/L

- 11:50 T 38.0
- 11:55 T 38.4
- 12:00 T 38.7
- HR 140/min
- BP 220/130mmHg

- 12:10 Rapidly progressive normalisation of T , HR and BP



Dantrolene sodium

- $2 \times 2.5\text{mg/kg} = 320\text{mg} = 16 \text{ vials}$



T°	Rectal	Oeso	TA/Puls	200	8	9	10	11	12	13					
R			SaO2	99	98	99	98	99	99	100	100	100	100	100	100
			PCO2	180			34	28	37	37	38	41	41	48	40
	37		BIS	60											
	36.3			140											
	32			120											
	30			100											
	28			80											
	26			60											
	24		Diurèse	PVC	40										
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	PENTO / HYPNO (DISOP)														
	PAV / NOR (TRA) / MIV / ROC														
	FENTA / RAPI / SUFEN / REMI														
	Syntocinon														
	Kefed														
	neosynephrine														
	achi { buprid 5% HB														
	morphine														
	Syntor														
	Cytoka														
	RINGER-LACTATE														
	ATROP / PROST / ROB-NEO														

glycémie M 30 / 46 mmol/l
pic T°: 38.7 à 12.

7x20mg Dopamine
+ 9x20mg Donkolanefed 320mg

FOL AA

550 < 60 190 < 150 < 40
Scaline 75 mg (10)
< 400 > < 100 > < 300 >
Dermium 2 mg

uterotomie: 2h48
naissance: 3h50

5 1/2
Voluven: 500

< 40 ml/h 80 40
{ 200µ } 3x
Voluven 500 1000 NaCl glu + NaCl 500
NaCl 500

Evolution

- Extubated on the evening
- Maximal CK 523 at 20:00
- Na⁺ 130
- K⁺ 5.0
- Transferred from ICU the day after
- No other complication
- Provisionary attestation given
- Muscular biopsy will be soon organized (delayed because she was still lactating)
- MH Hotline : 061 265 77 77

Case report 2

Laurent Thierrin

Winterthur, April 17th 2010

Thank you for
your attention !

SAOA

Spring meeting 2010

