



**Riedgletscher VS  
Switzerland**



Sevilla  
October 2010



Association de  
professionnels  
de l'avortement  
et de la  
contraception

# Anaesthesia: Local vs general

André Seidenberg

[www.seidenberg.ch](http://www.seidenberg.ch)

# Anaesthesia: local vs general

Guidelines recommend  
local anaesthesia for  
1-trim surgical abortion



Royal College of Obstetricians and Gynaecologists  
Setting standards to improve women's health



World Health  
Organization

# Anaesthesia: local vs general

Deaths by induced abortion at  $\leq 12$  weeks' gestation

Peterson 1981

Cause of † and type of anesth.,	No. of †	No. of procedures	Death-to-case-rate in 100'000	Death-to-case-rate (95% CL)
Anesthesia-related 1972-1977	15	5'100'000	0.29	0.16 - 0.48
Nonanesthesia-related, 1974-1977	24	3'980'000	0.60	0.39 - 0.90

Lawson 1994

# Anaesthesia: local vs general

Deaths by induced abortion at  $\leq 12$  weeks' gestation

Peterson et.al. 1981

Cause of † and type of anesth.,	No. of †	No. of procedures	Death-to-case-rate in 100'000	Death-to-case-rate (95% CL)
Anesthesia-related				
1972-1977	15	5'100'000	0.29	0.16 - 0.48
Local A	5	3'370'000	0.15	0.05 - 0.35
General A	10	1'730'000	0.58	0.28 - 1.06
Nonanesthesia-related,				
1974-1977	24	3'980'000	0.60	0.39 - 0.90
Local A	9	2'660'000	0.34	0.15 - 0.64
General A	15	1'320'000	1.14	0.64 - 1.87

# Anaesthesia: local vs general

Deaths by induced abortion at  $\leq 12$  weeks' gestation

Peterson et.al. 1981

Cause of † and type of anesth.,	No. of †	No. of procedures	Death-to-case-rate in 100'000	Death-to-case-rate (95% CL)
Anesthesia-related				
1972-1977	15	5'100'000	0.29	0.16 - 0.48
Local A	5	3'370'000	0.15	0.05 - 0.35
General A	10	1'730'000	0.58	0.28 - 1.06
Nonanesthesia-related, 1974-1977	24	3'980'000	0.60	0.39 - 0.90
Local A	9	2'660'000	0.34	0.15 - 0.64
General A	15	1'320'000	1.14	0.64 - 1.87

# Anaesthesia: local vs general

Osborn et.al. 1990: General Anesthesia, a Risk Factor for Complication following Induced Abortion?

N=	10'000	
Complications	199	2%

## Odds Ratio Local vs General Anaesthesia

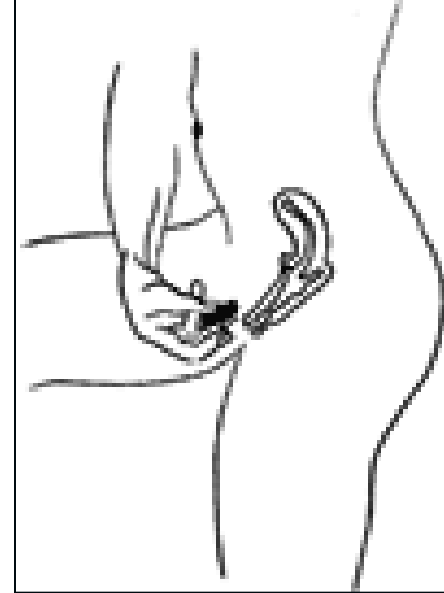
All Complications	1.8	95 % CI, 1.4-2.5
Severe Bleeding	4.6	95 % CI, 2.2-9.5
Perforation	1.3	95 % CI, 0.78-2.2
Other Complications	1.6	95 % CI, 1.0-2.6

# Anaesthesia: local vs general

## Priming is important

**Mifegyn® (Mifepriston, Antigestagen)**  
expensiv  
Application not at the same day

**Cytotec® (Misoprostol, analogon of prostaglandin)**  
inexpensive  
application 3-4- hrs before operation



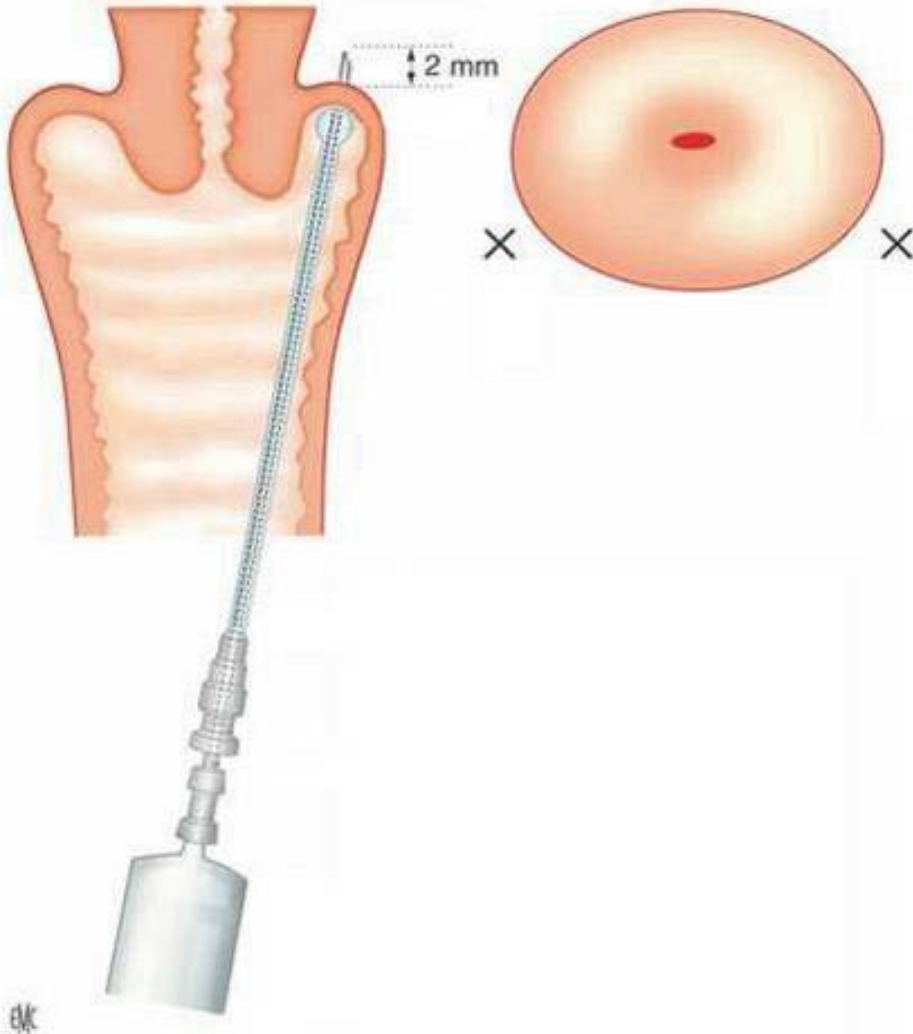
# Anaesthesia: local vs general

Instruments:





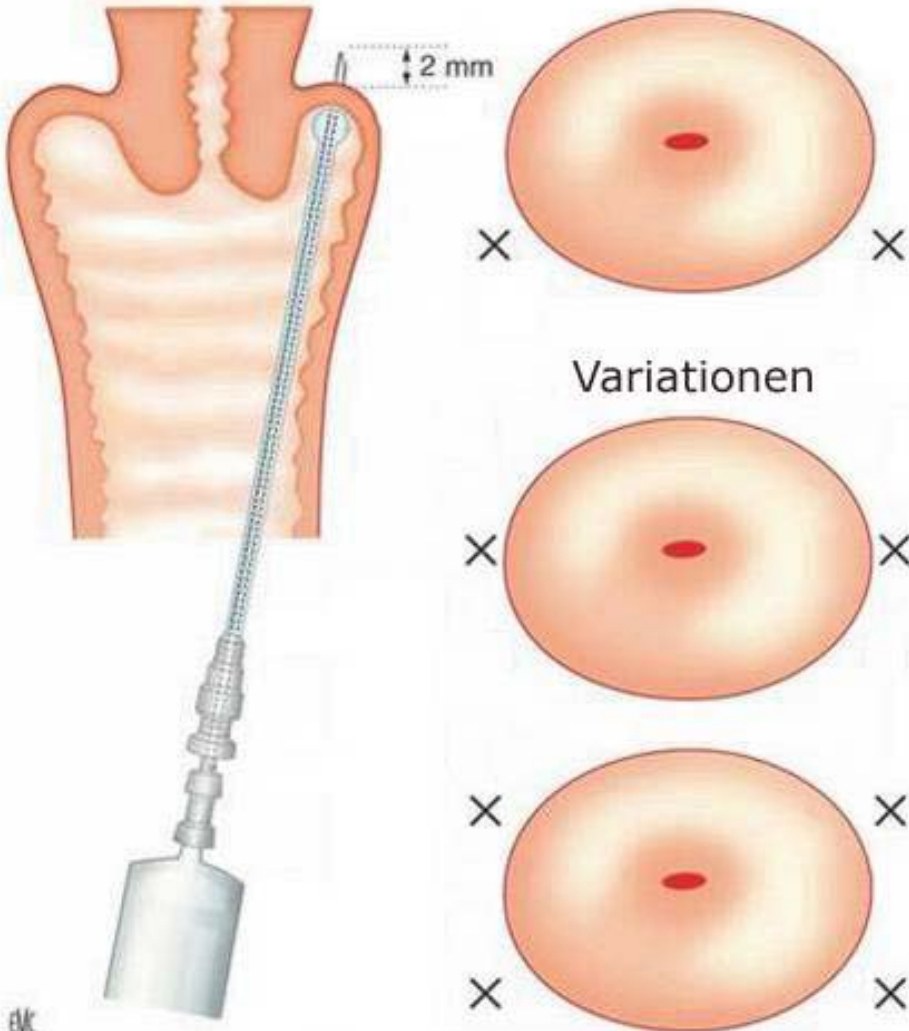
# Anaesthesia: local vs general



Paracervical  
Infiltrations

Paracervical Block

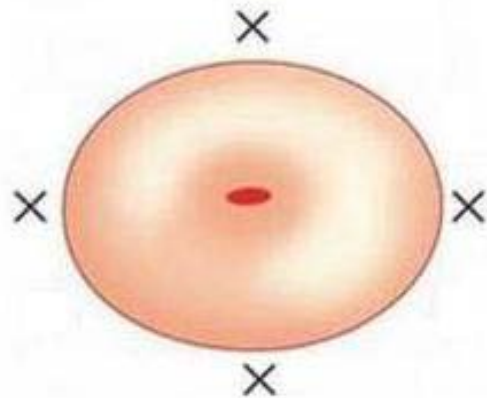
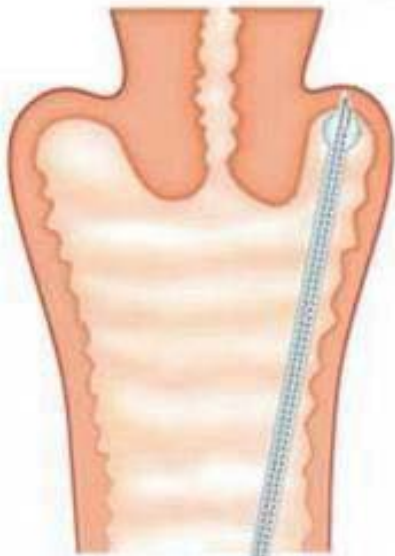
# Anaesthesia: local vs general



Paracervical  
Infiltrations

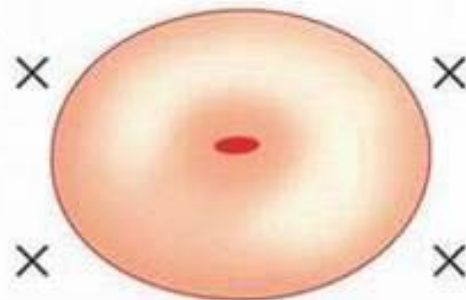
Paracervical Block

# Anaesthesia: local vs general



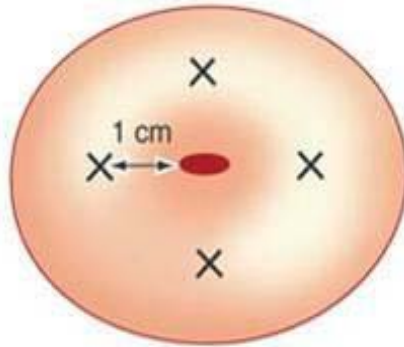
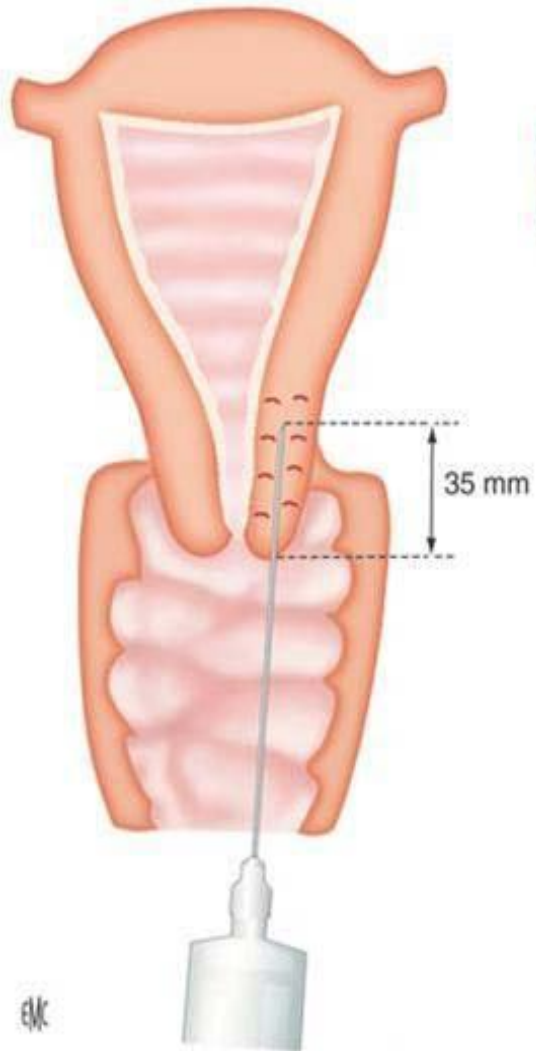
Subepithelial Infiltrations

Variante



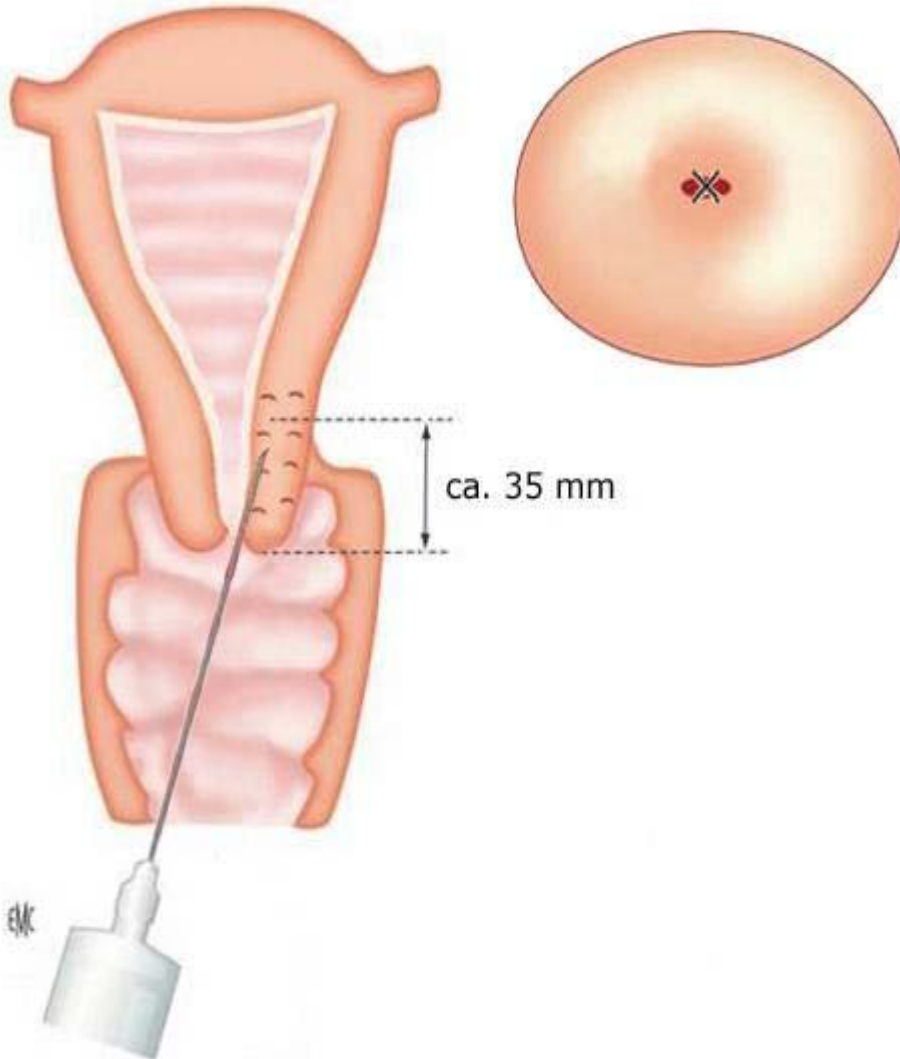
Modified Paracervical Block

# Anaesthesia: local vs general



Intracervical  
Infiltrations

# Anaesthesia: local vs general



## Transcanalicular Infiltrations