

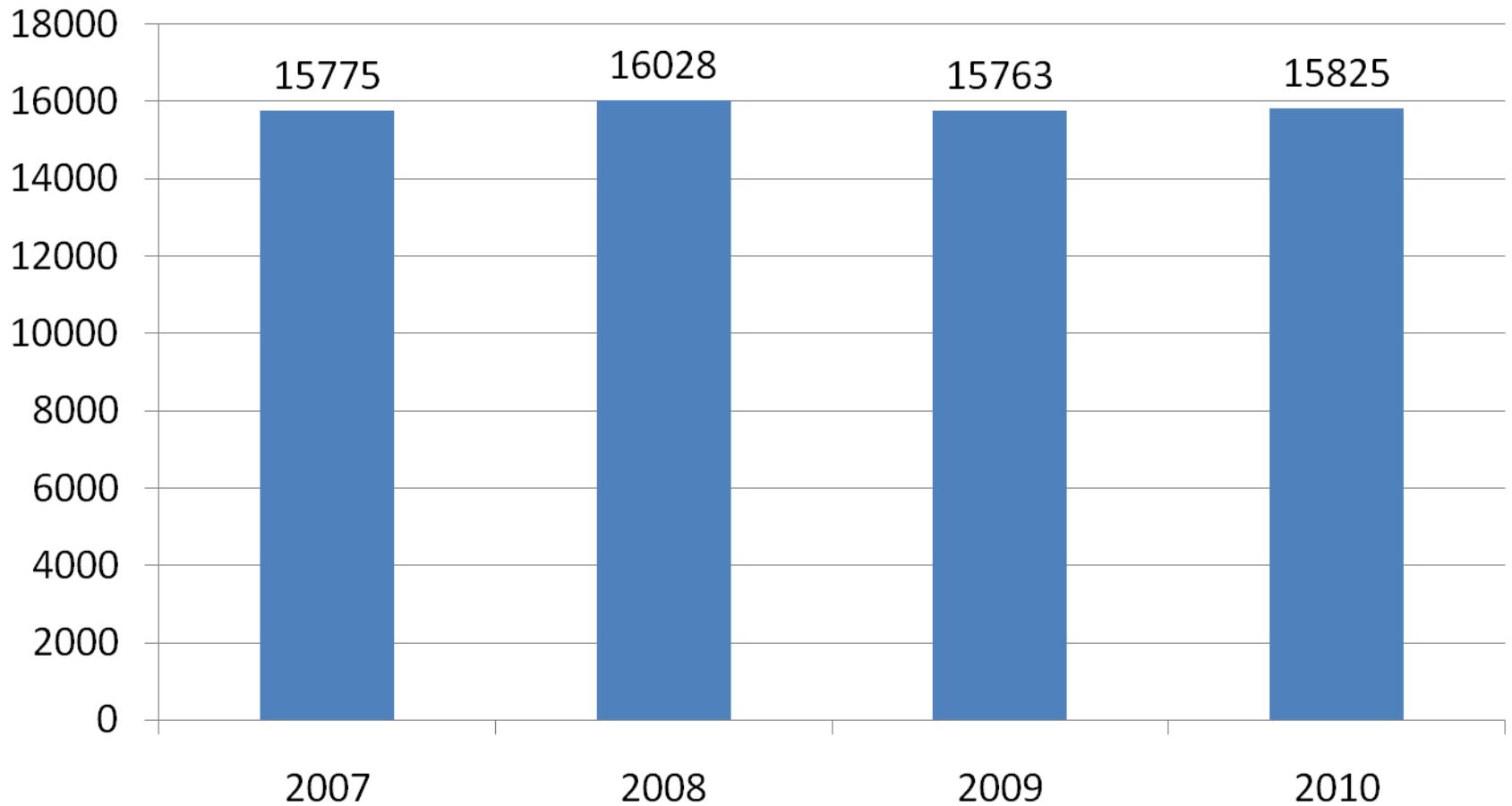
Obstetric anesthesia in Estonia (Tartu)

Juri Karjagin with the help from
Raido Paasma (Pärnu)
Jaanus Eelermäe (Tallinn)
Neeme Somma (Tallinn)

Some geo-demographic data

- Area 45 227 km²
- Inhabitants 1 340 194 (01.01.2011)

Births 2007 - 2010



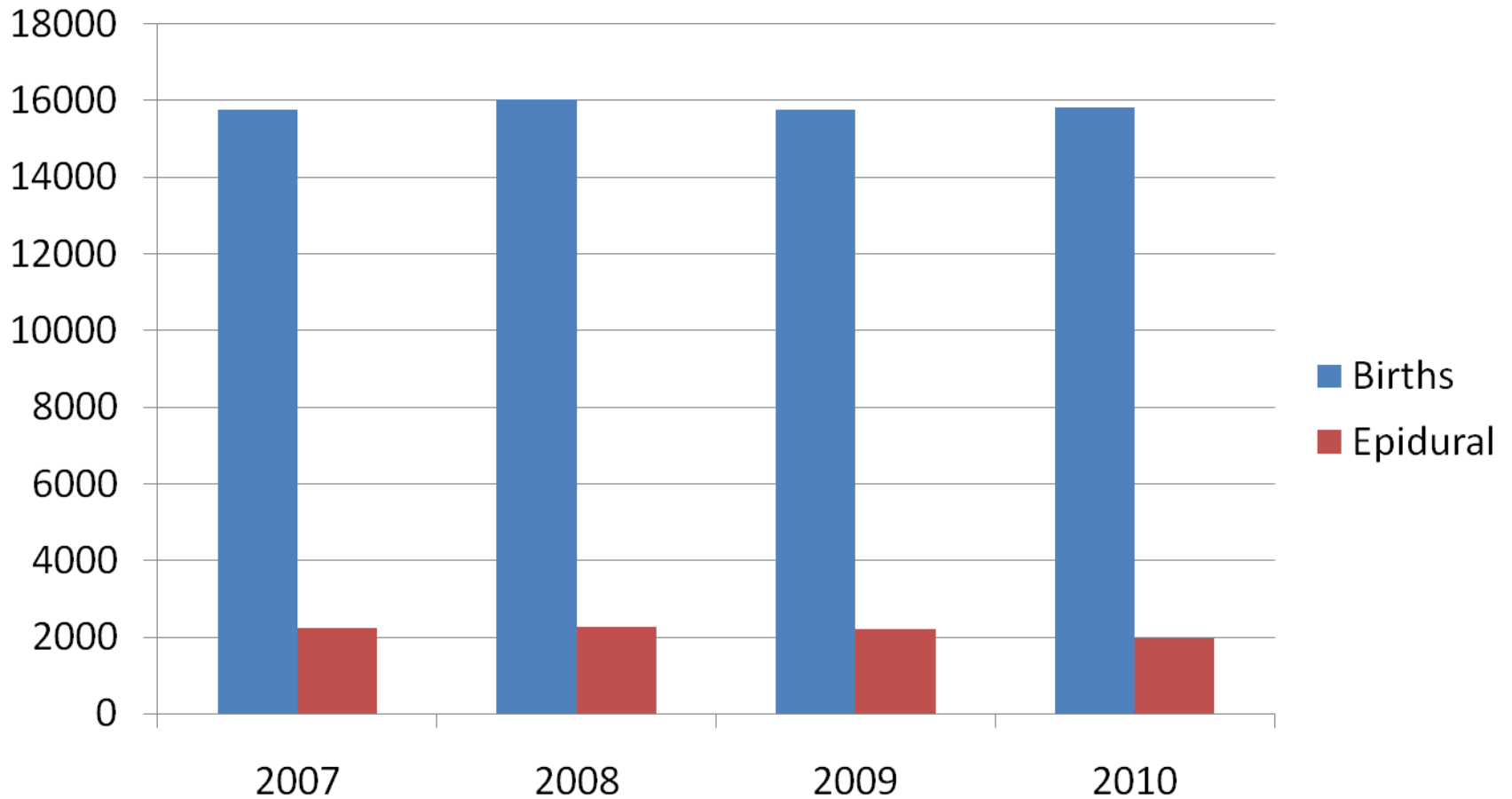
Analgesia in labour

- Midwives and/or obstetrician
 - Systemic drugs
 - Paracetamol
 - Opioids
 - N₂O
 - Blocks
 - Paracervical blocks (Tartu data)
 - 2008 16.6% of all labours
 - 2009 and 2010 7-8%
 - Aqua blocks ???

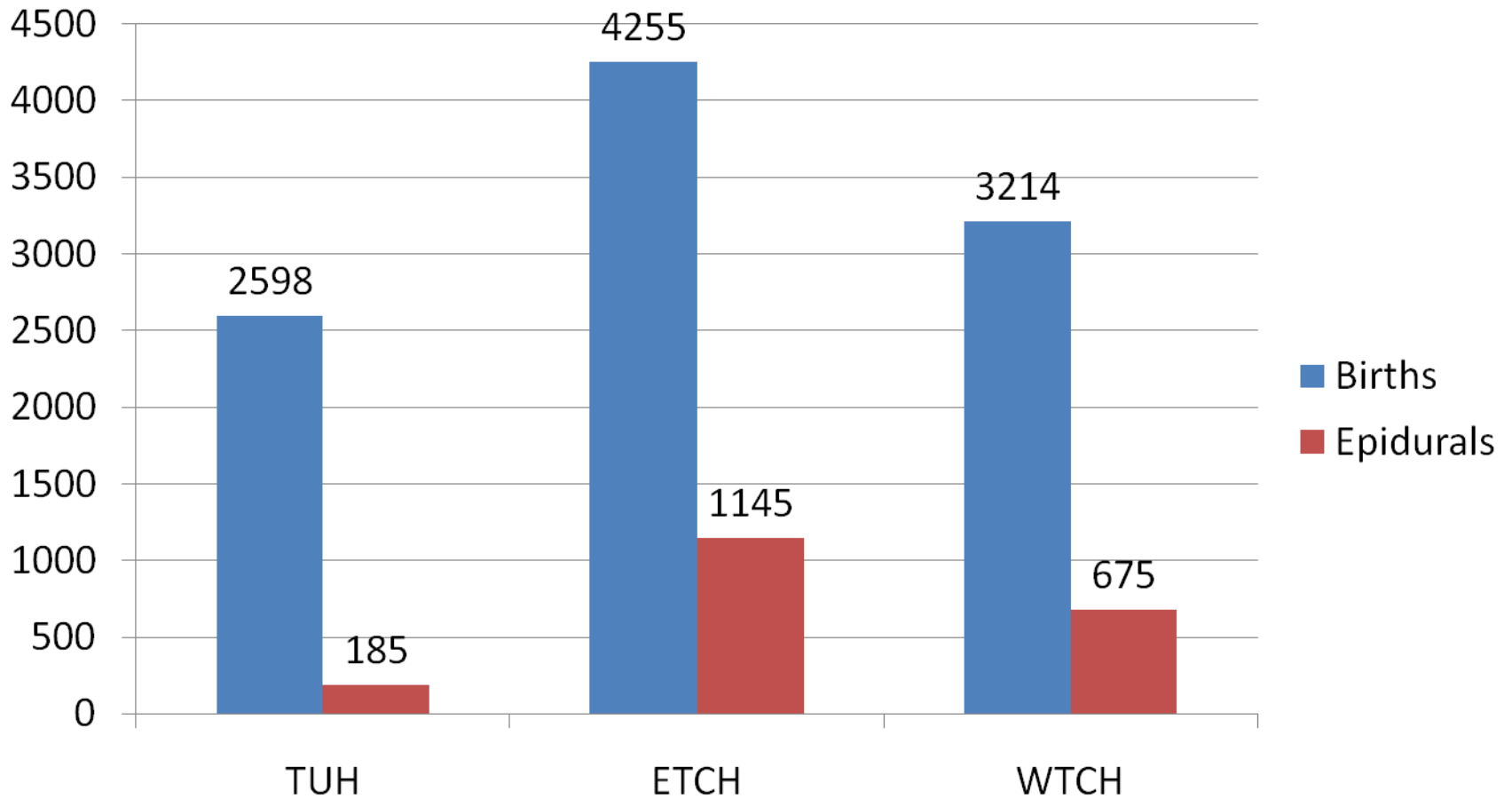
Analgesia in labour

- Anesthesiologists
 - Epidural
 - Spinal
 - Combined spinal-epidural

Epidural in labour



Some hospitals...



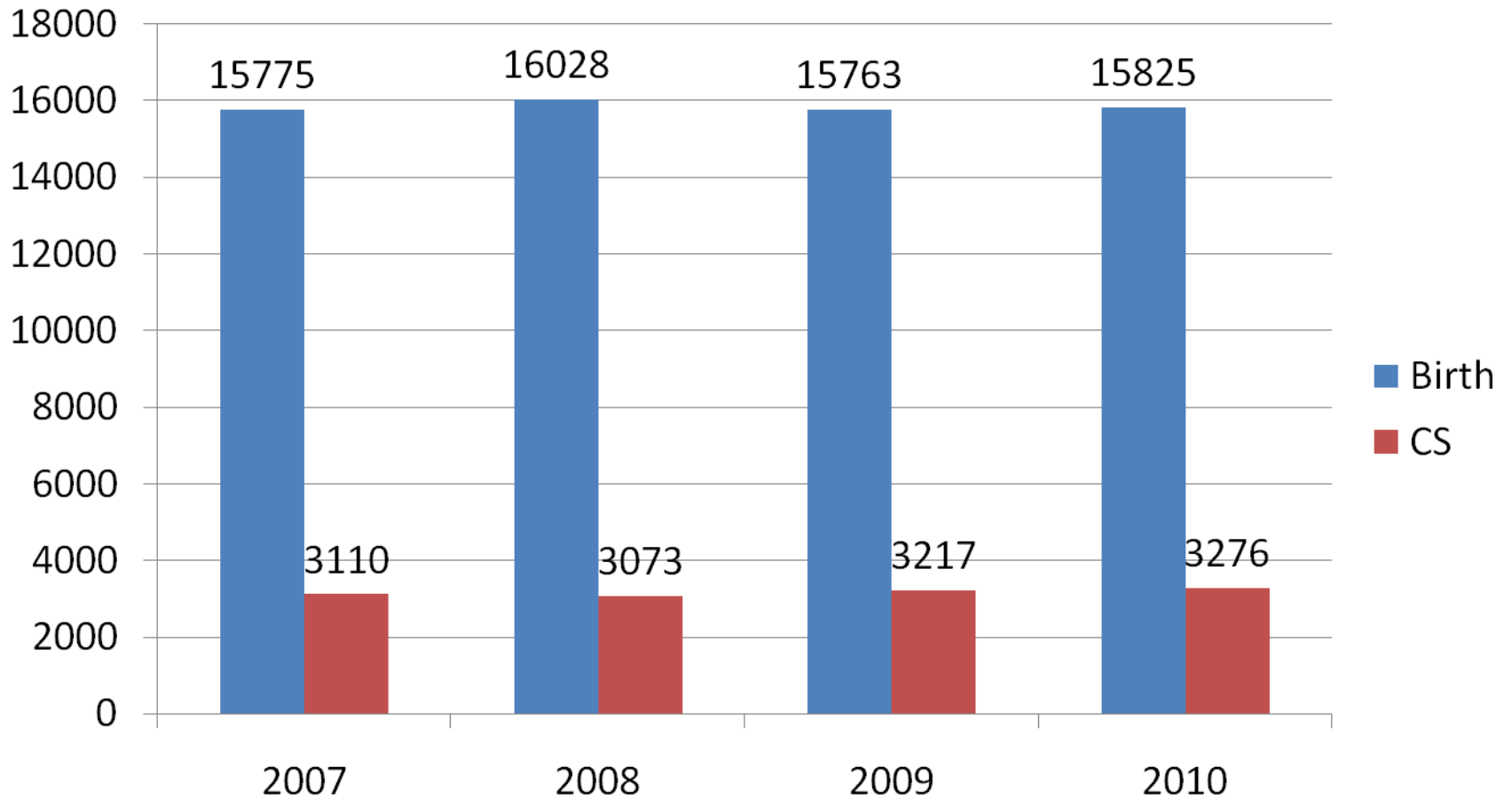
Epidural: drugs and methods

- Bupivacaine 0.1 – 0.125%
- Fentanyl 5 – 10 $\mu\text{g}/\text{ml}$
- Placement in labour room
- Standard monitoring
 - Blood pressure
 - Pulse-oximetry
- First dose (5 ml) by anesthetist >>midwife as required

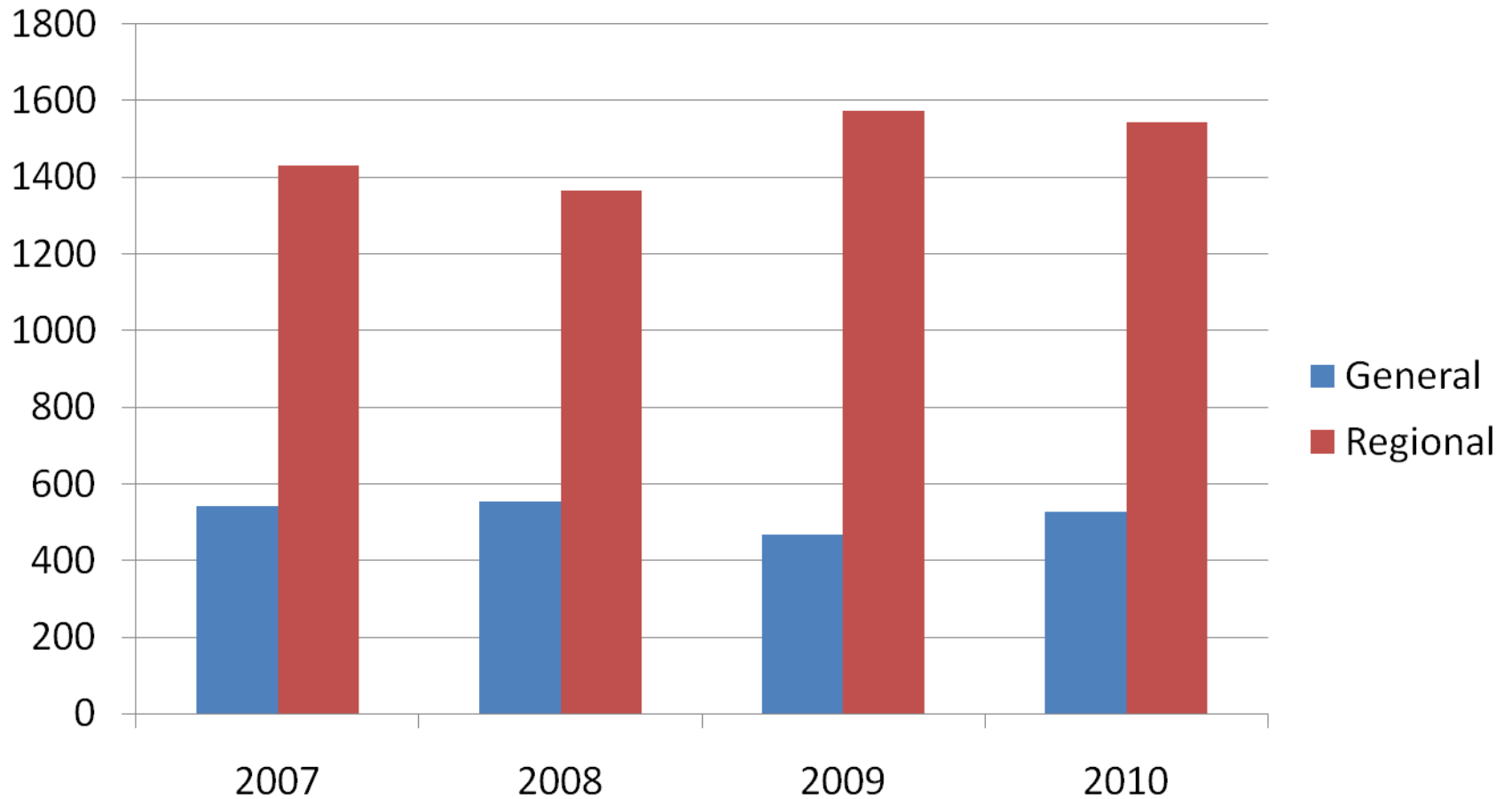
Other regional

- Mini-spinal 2ml
 - Bupivacaine 2.5 mg + Fentanyl 25 μ g + NaCl 0.9%
 - Numbers are 10-20 for whole Estonia, but it seems gaining popularity
- Combined technique ???

Cesarean section



Cesarean section



Cesarean section Tartu data 2010

- 537 CS (20,7% of all labours)
- 204 elective and 333 emergency
- Elective
 - 77% regional (100% spinal)
 - 23% general
- Emergency
 - 44.7% regional (12% epidural and 88% spinal)
 - 55.35 general

Spinal for CS

- Bupivacaine heavy or plain (7-10 mg) with or without fentanyl (10-20 μ g)
- Vasopressors tactics (Tartu)
 - phenylephrine 0.1 mg/ml 30 ml/t simultaneously with injection
 - Ephedrine 0.5 mg/ml by drip or 5 mg boluses
- Conversion to general ca 2.5% in Tartu (2010)

Epidural top-up for CS

- In operating theatre
- Drugs
 - Marcaine 0.5% 75 mg
 - Lidocaine 2% 200-300 mg

Problems...

- Airways
- PDPH