

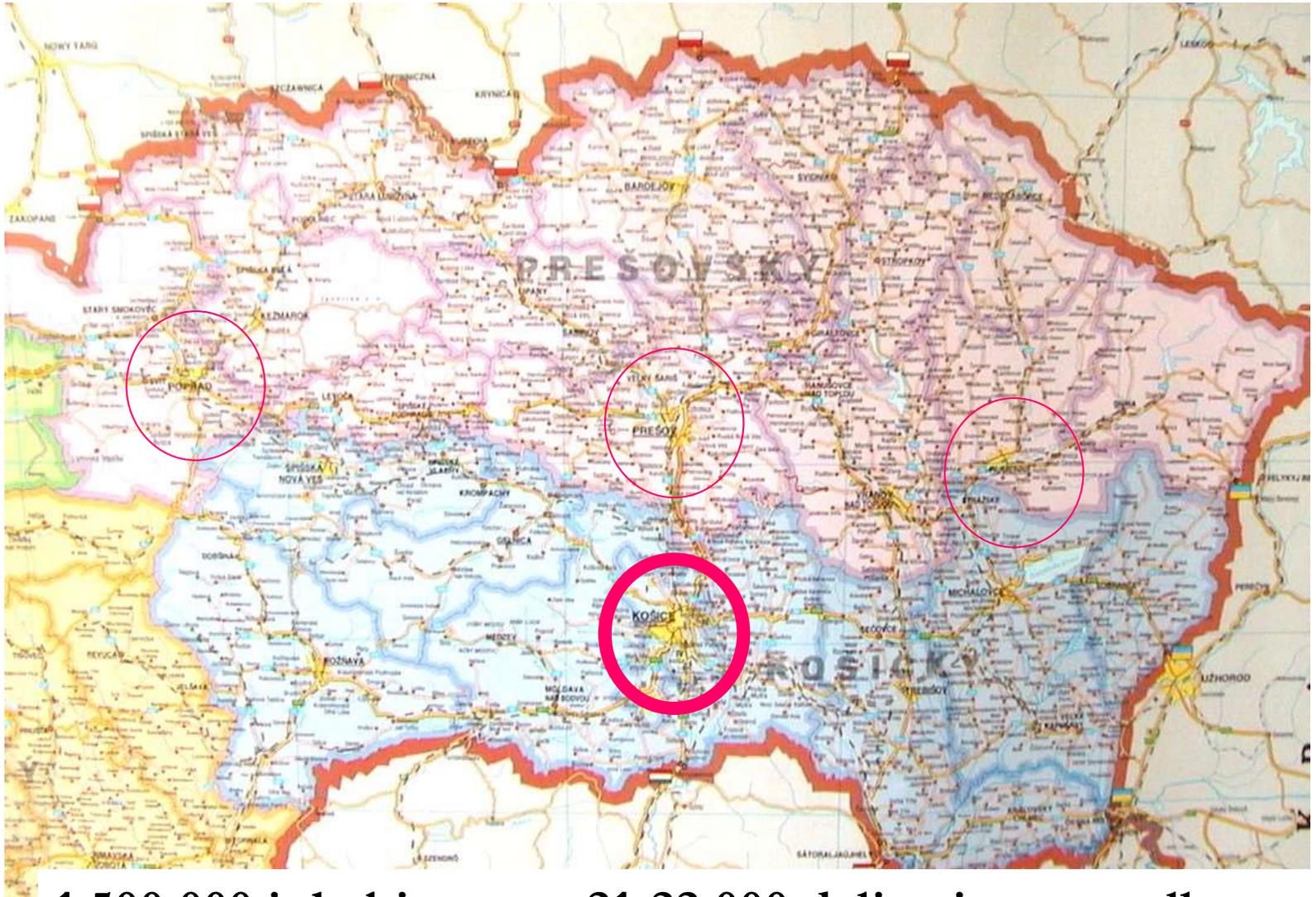
Bedside interactive education possibilities in critically ill neonates

An infant with pulmonary hypertension & pneumothorax

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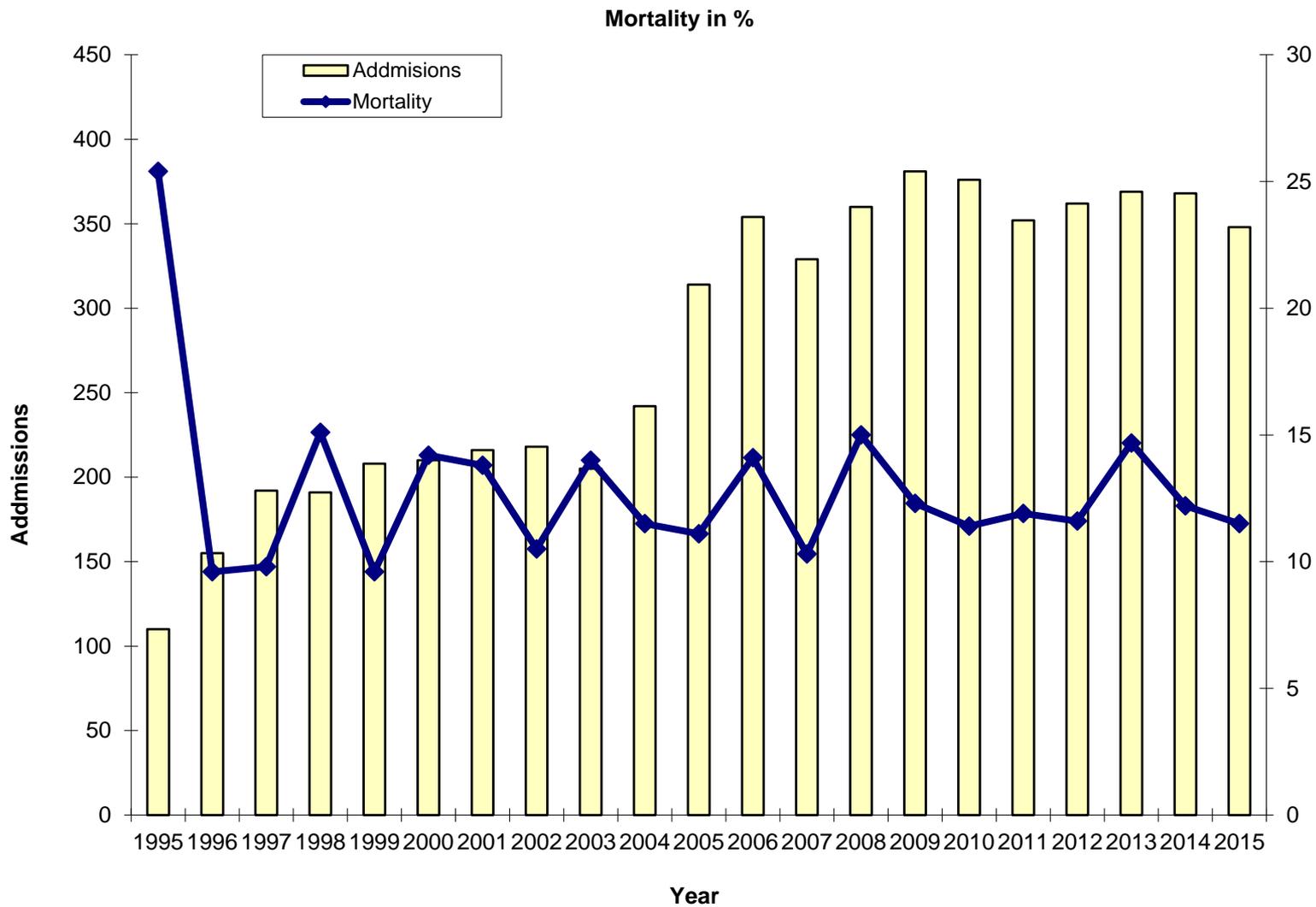
Region of our Perinatal Center

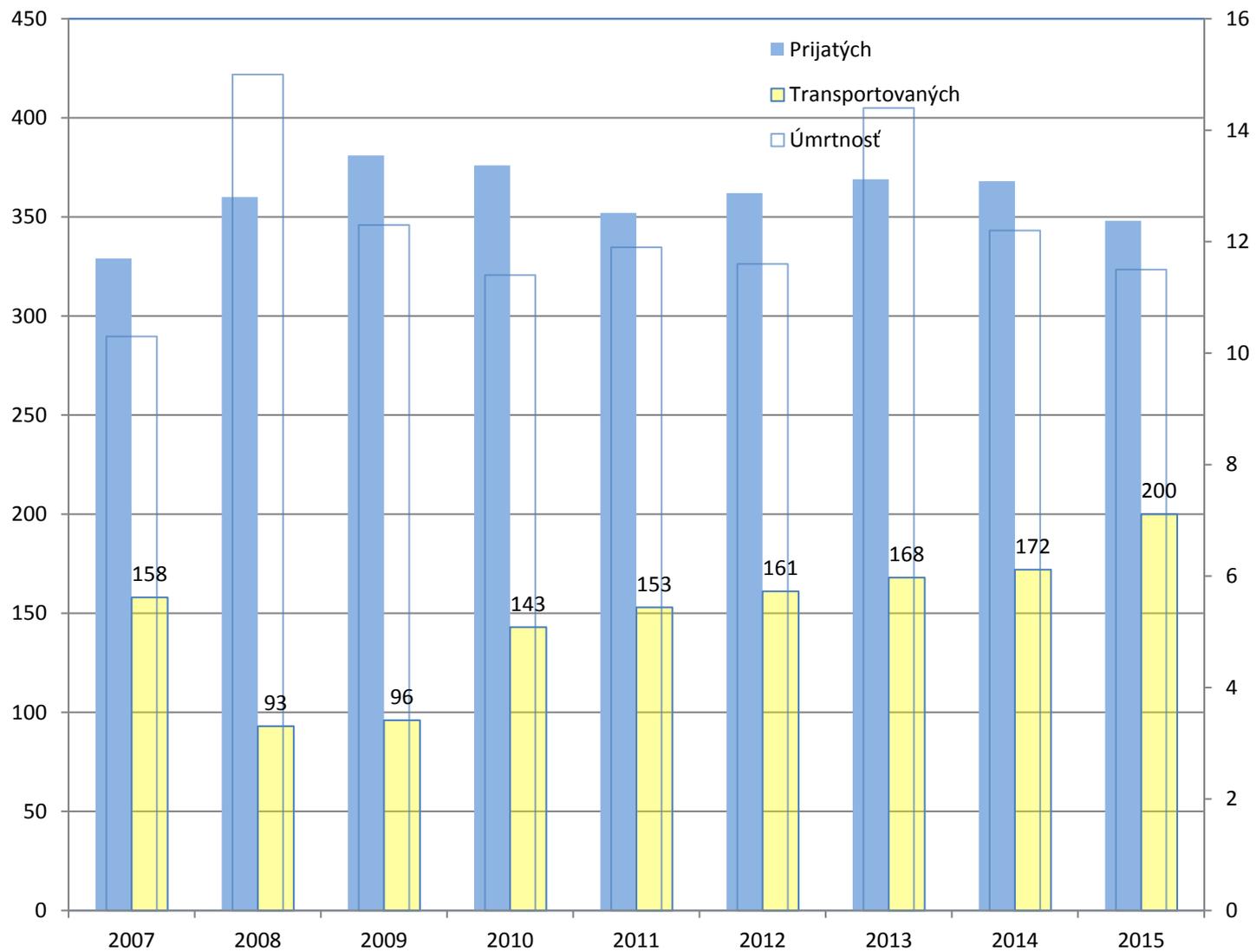


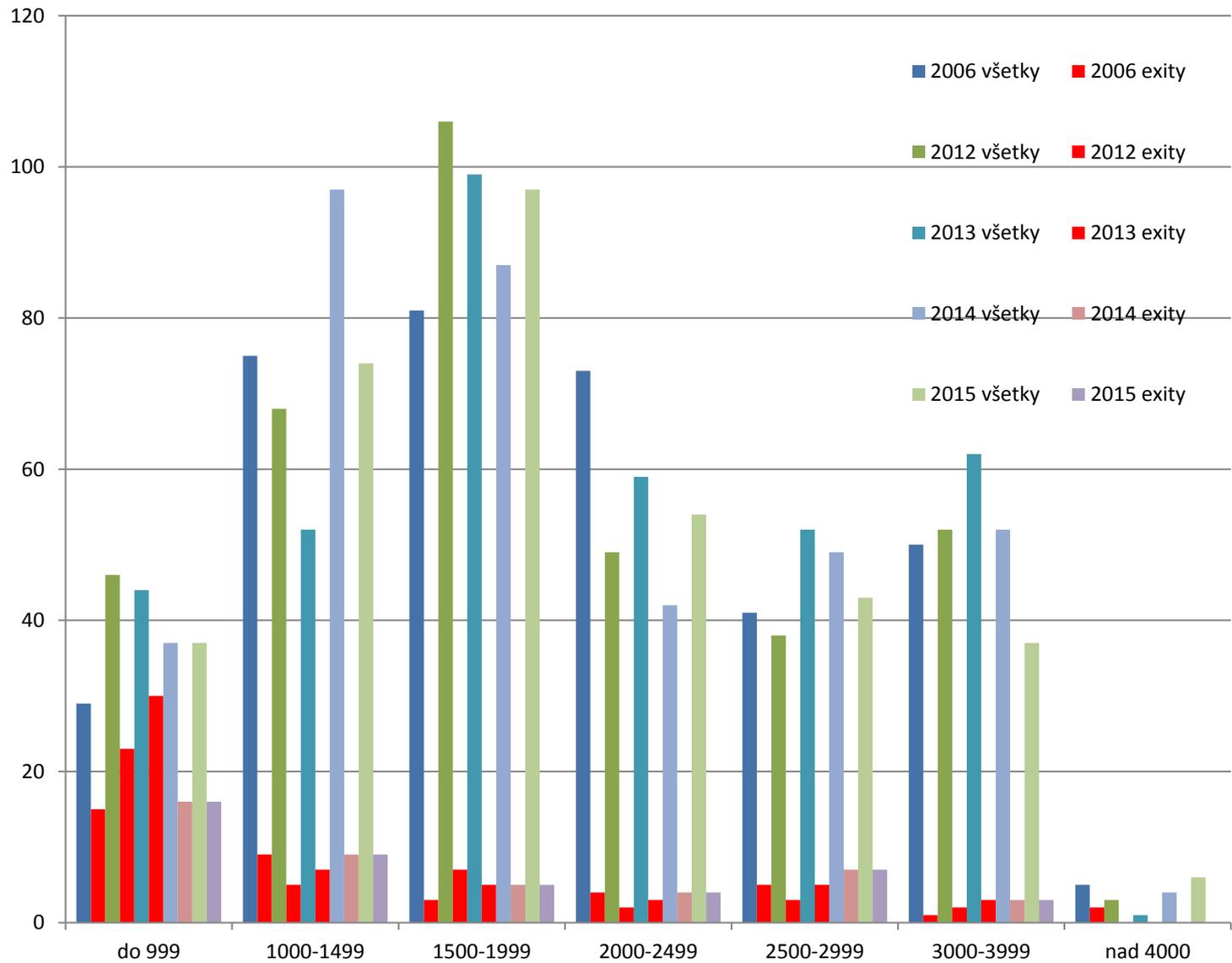
1,500,000 inhabitants

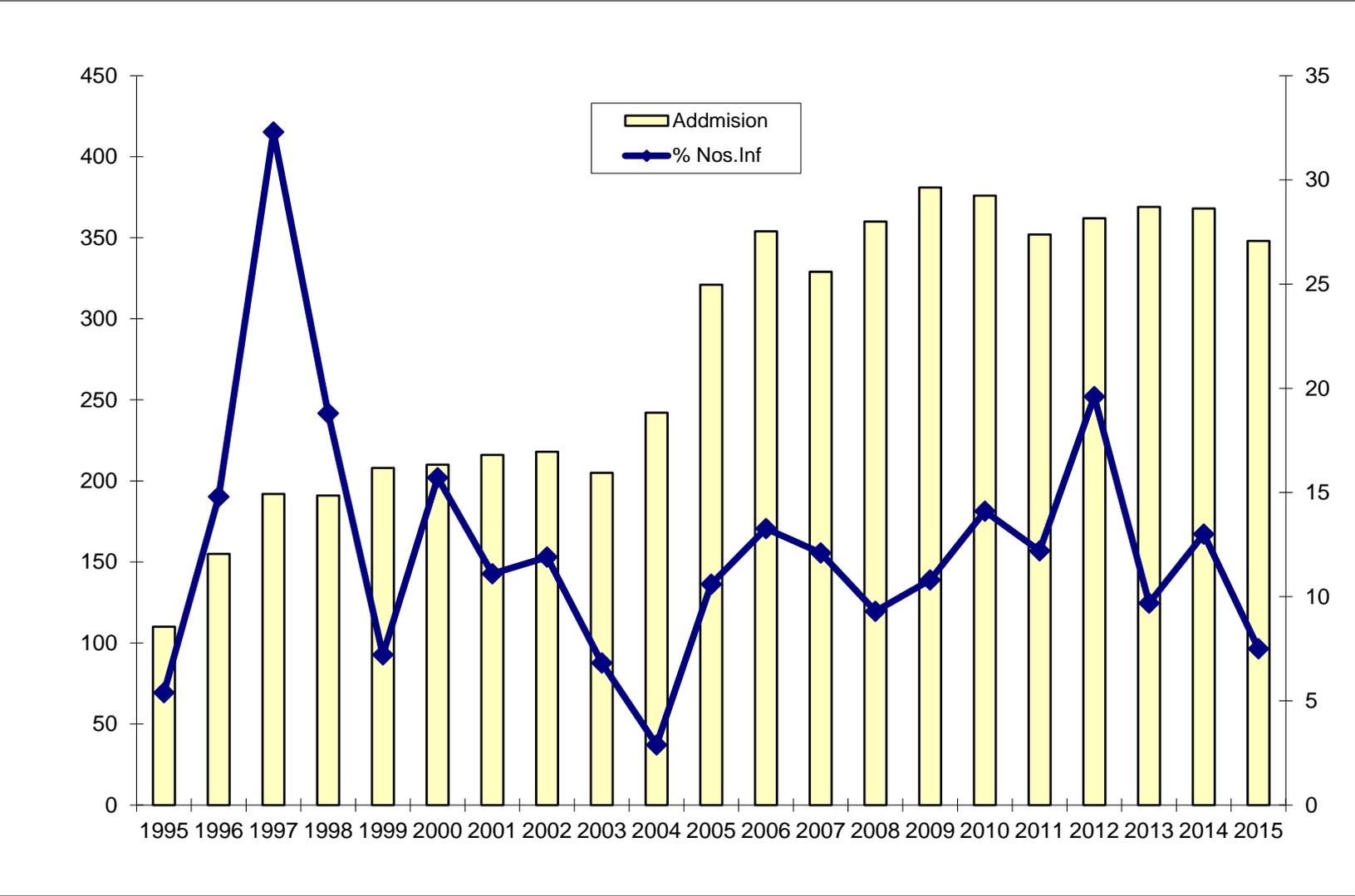
21-22,000 deliveries annually

Admissions/Mortality









1995



8 „intensive beds“

2012



20 intensive beds



Goals...

- **Maintain quality**
- **Decrease regional neonatal mortality and morbidity**
- **Improve regionalisation**
- **Add equipment to cope with increasing admissions**
- **Address future needs**

Clinical Interests

- **Early stabilisation of the lungs and low oxygen**
- **Prevention of PIVH and cPVL**
- **Nosocomial infection prevention and treatment**
- **Understand transition and how best to intervene**
- **Prevention of BPD, ROP, NEC, PDA goal**
- **Prevention of HIE**
- **Solve the problem of PPHN and MAS**
- **Upgrade the ventilation strategies**

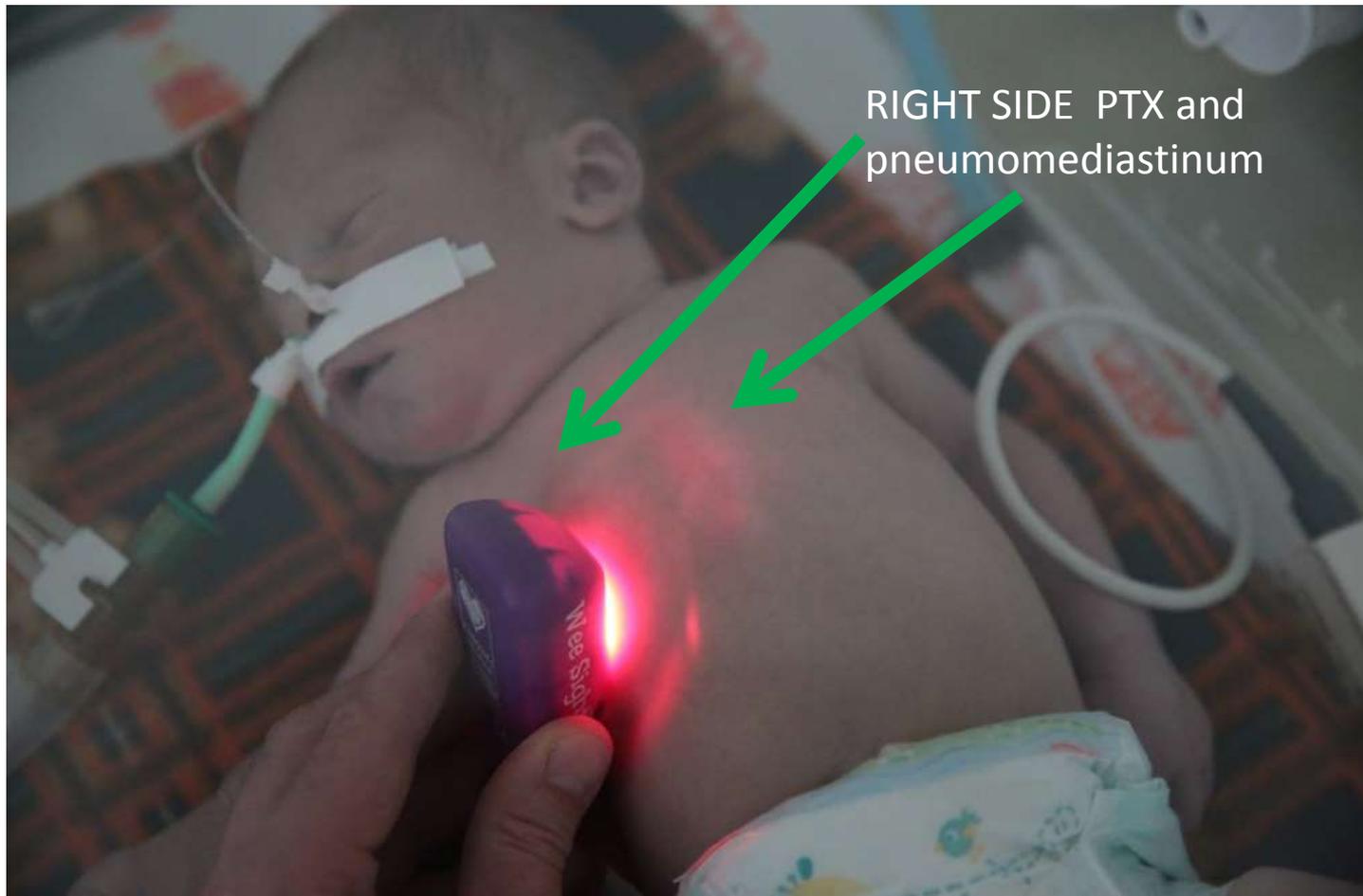
The aim

- To use all possible visualisation techniques to create visual impression during education process
- Search for the best solution for the baby and document it
- Overlap of the information based medicine with the evidence based medicine

Data working with

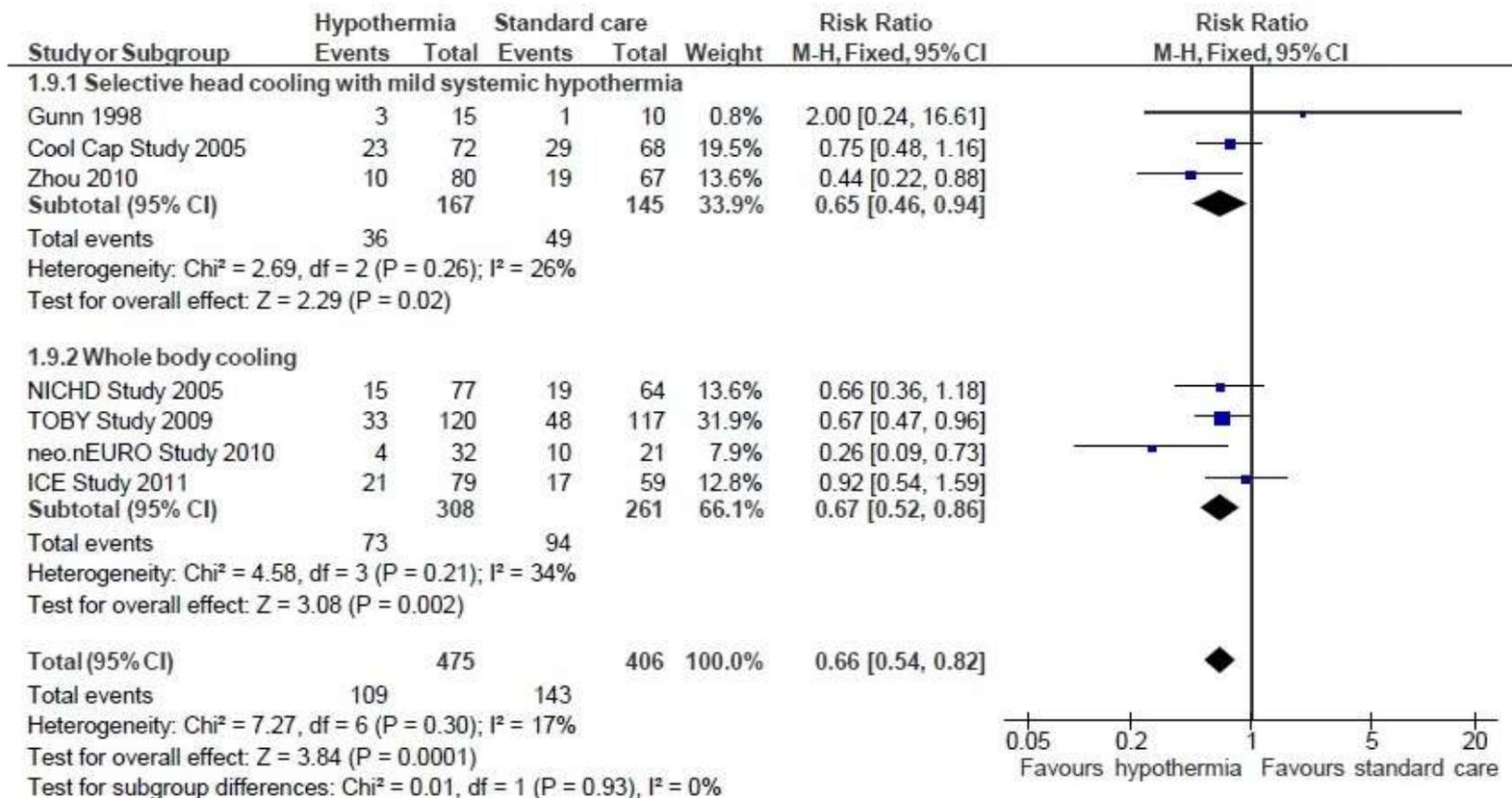
- **Information based medicine** - applied in emergency situations
- **Evidence based medicine** – applied in clinical practice

Information based medicine



Evidence based medicine

1.9 Cerebral palsy in survivors assessed

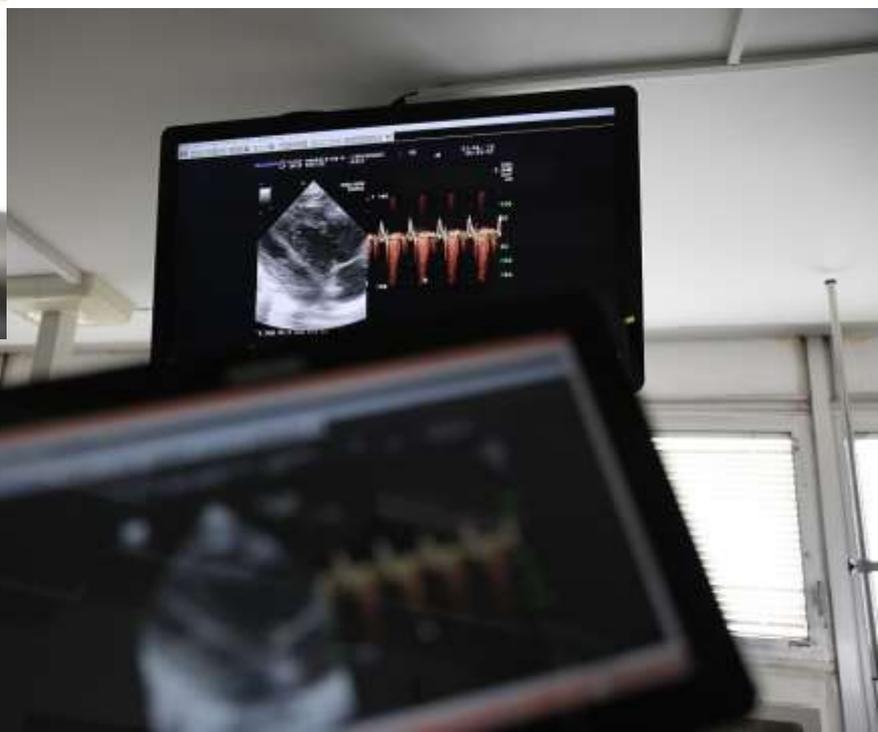




Complex and expensive treatment was necessary



Switch to the visualisation system, demo of the reviews and selection scans from tablet using secured wifi network .



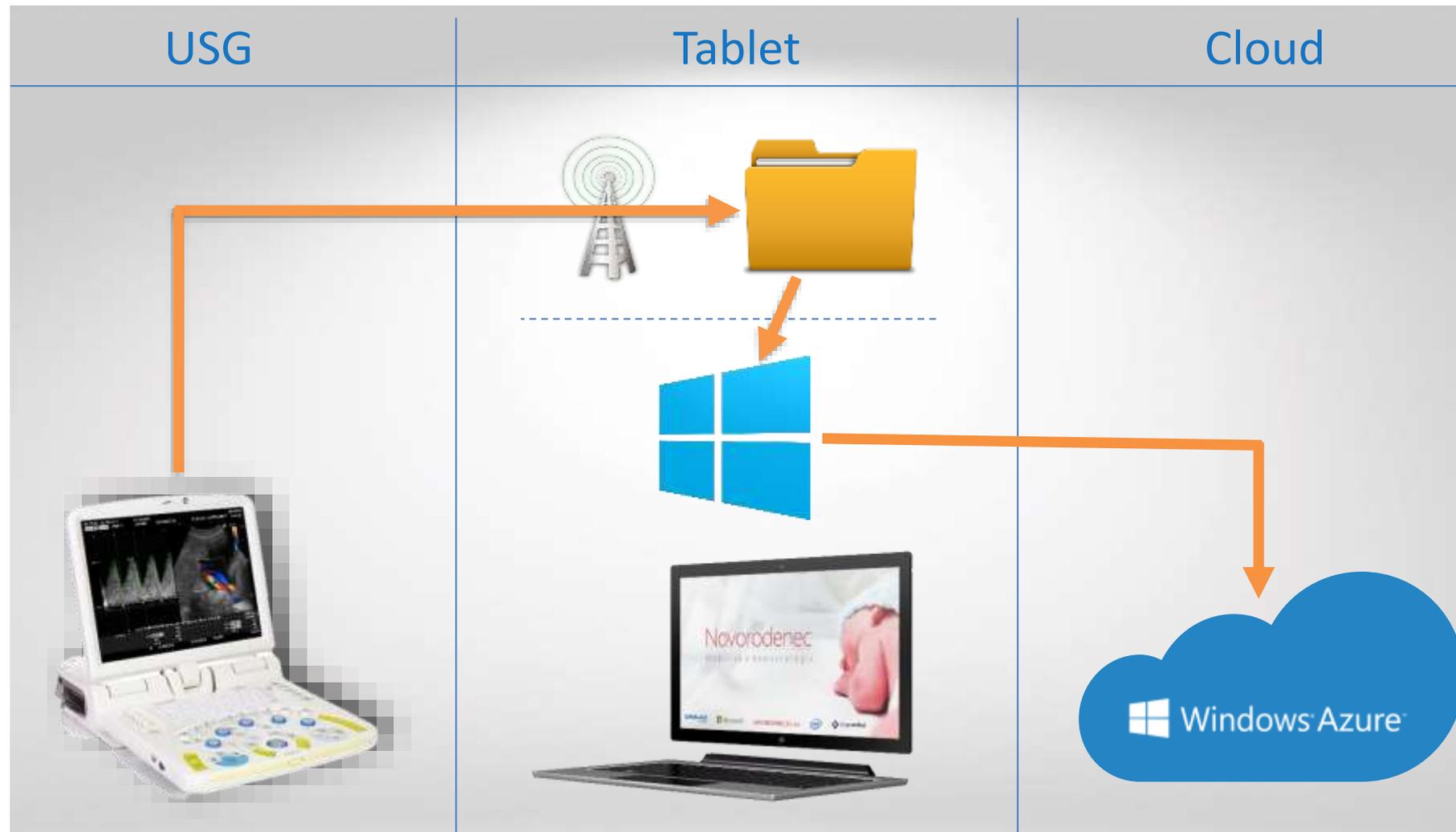
Continuity

- Transformation of the system to the regional hospitals
- Network of the tablets working mainly for transported critically ill newborns

Data availability in all places



• Tablet – Ultrasound - Cloud







Michalovce



Tetralogy of Fallot



Transport to Košice

Not directly to the
cardiology unit



základné údaje

(nezadané)

Muž Žena

22.09.2015

06:16

050

22.4 - Vrodená trikuspidálna stenóza

22.4 - Vrodená trikuspidálna stenóza

559220201

ika



4) DÓVERA zdravotná poisťovňa, a.s.



ABR-BIO

Test vykonaný	Ph	Pco2	Po2	Bec	HcO3	So2
22.09.2015 9:21:42	7,41	4,2	5,23	-5,5	20	75
22.09.2015 12:00:23	7,39	5,28	4,11	-4,5	20	55

Pridať

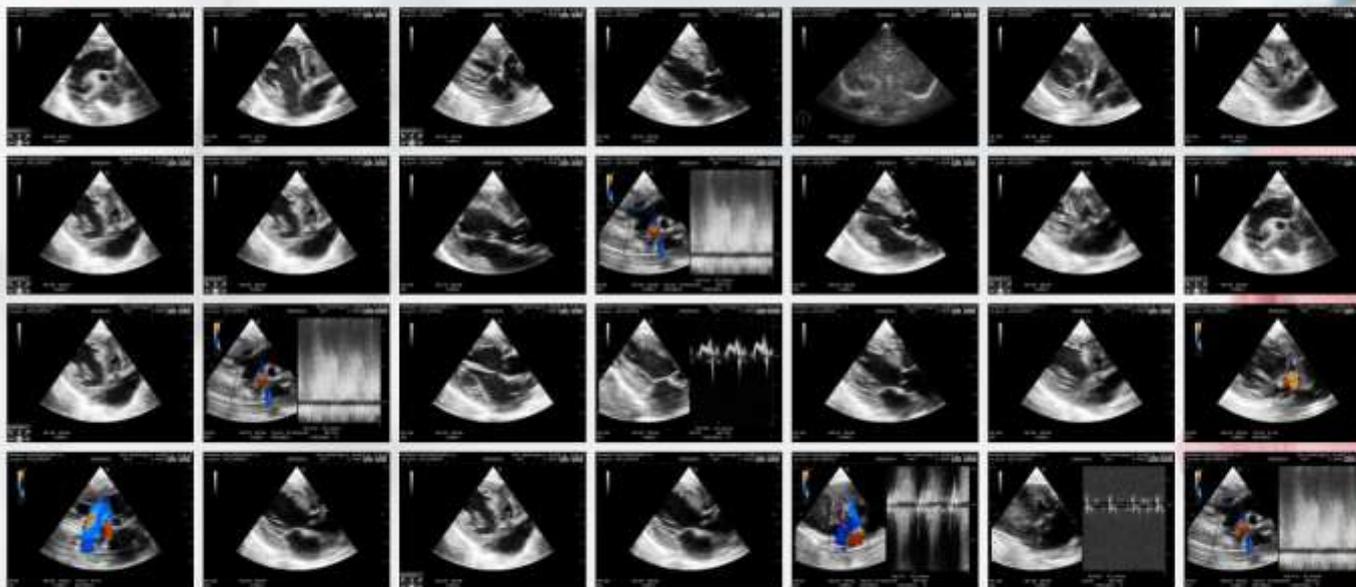
Zmeniť

Zmazať

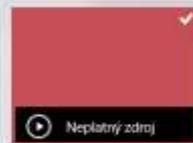
Detail transportu - 14/2015 - K

Všetky USG >

Všetky Foto a Video >



🔍 Foto a video - 14/2015 - K



Advantages

- Different communication tools
- Consultation in community of nurses and physicians
- Data availability everywhere in the region
- Consultation possibility on regional and international level
- New application possibilities coming out during clinical practice



<https://www.youtube.com/watch?v=YIaSYplCa3Q>



The outcome of
our critically ill,
finally healthy
newborn...he
grow up

