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Home care ventilation: a retrospective evaluation of our experience based on the current national practice

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Once upon a time...

Galenos

Beginning of the 19th century
Home care ventilators

- Low weight
- High reliability
- Easy to use
- Effective alarm
- Oxygen connection
- Standby generator
History of HCV/Czech Republic/

- Long-term ventilation
  - necessary permanent stay within ICU in past

- Individual cases at home /15 years ago/
  - family initiative
  - No legal support
  - No community support

- National committee for realization of home care ventilation /since January 2003/

- 2004 first home care ventilators released
Case study /July 2009/

2.5- year- old boy admitted to PICU

- 3- day history of fever, no seizures, nausea and vomiting
- Clinical presentation
PICU stay /22.7.- 24.12. 2009/

- Critical condition /pulmonary oedema, heart failure, sepsis, cerebral oedema, myelitis, coma vigile/
- Swine flu? Antivirotics
- Hantaviral infection
No sedation

- Stable condition
- Ventilation /SIMV/
  - does not cough, swallow, does not obey commands
- Conscious but eye contact disputable
- Motor fidgetiness
- Unable to open mouth /central etiology/
Nursing care

- Complex nursing care
- Family-centred care
- Use of basal stimulation
Family- centred care
Richard’s hospital room
Intensive rehabilitation
Family- centred care
Discharge on X-mas Eve

- Conventional ventilation
- PEG
- Toilet trained
- Recognises familiar faces
- Uses his own sign language
Process of realization HCV

- HCV is indicated by PICU doctor
- Application for HCV
- Committee agreement (home care ventilator available within 28 days)
- Technical equipment
Children on HCV in CZ

- 34 children discharged on HCV
- 9 of them from FNO
- 5 children died
Pros & Cons

- Parents’ proximity
- Family / familiar environment
- Low cost versus higher expenses of a child’s hospitalisation

- Social – economic family status
- Limited financial support for carers / 3 hrs per day /
- limited number of home care agencies
- lack of methodical instructions for Health Insurance Companies about financial support
Richard at home