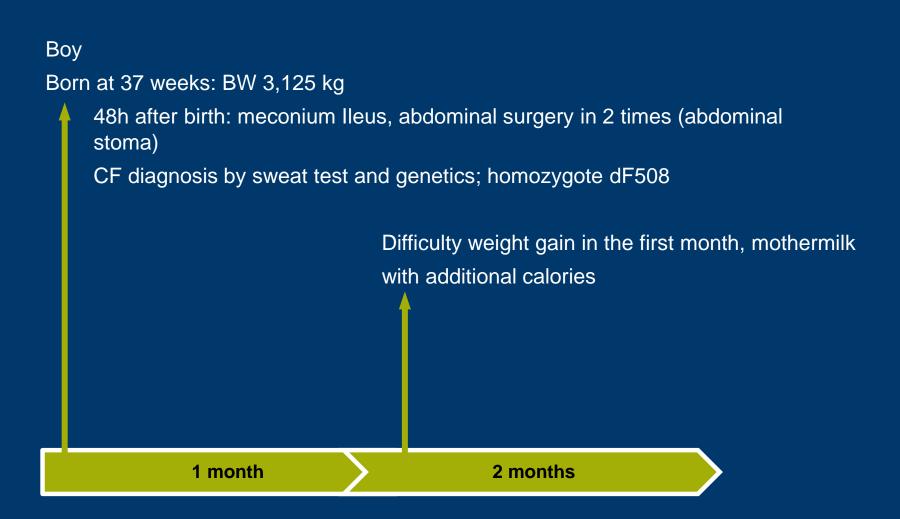


# CASE PRESENTATION

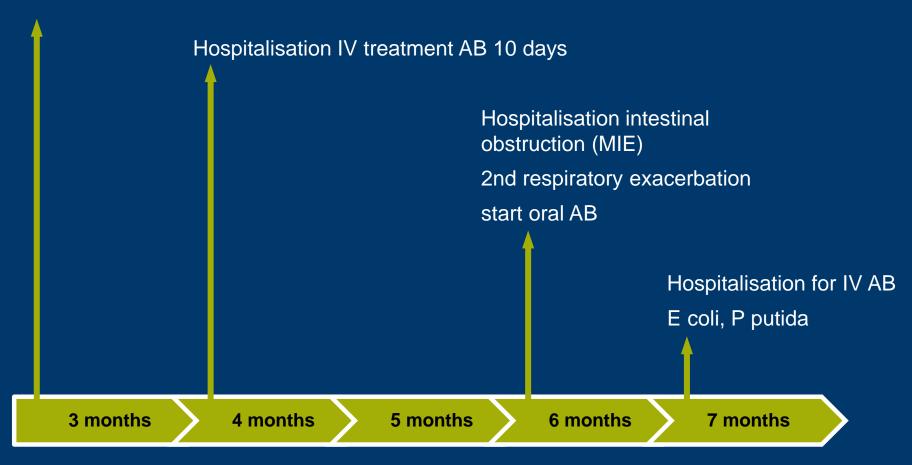
REHABILITATION CENTER PULDERBOS BELGIUM

Leen Govaerts
CF NURSE

# CASE 1



1rst respiratory exacerbation oral antibiotics and every 1,5 hours feeding



Question for submission inpatient rehabilitation

- □ Demand from CF center and parents
- □ Respiratory deterioration and difficult parent-child relationship

Mother: Fear of evolution to depression 'having a break down...'

Father: Engaged but not a lot actually present

Siblings: Sister of 4 years old with intermittent respiratory infections

Transfer from hospital to Pulderbos

7 months

8 months

9 months

## Inpatient rehabilitation - Pulderbos

1st day after admission

fever, cough +++, mucus+++, anorexia

After two days of intensive respiratory physiotherapy without improvement

Therapy changes

- □ Oral AB 14 days
- nasogastric tube
- mucusdrainage with PEP

Medication: Creons, Vitamines, Ursodeoxicholic acid

Inhalation therapy: Intermittent Salbutamol and Fluticason

Aerosols: 3 x mucoclear 7%, 1 x pulmozyme, 2 x colistineb

Respiratory physiotherapy 3 times a day

#### Big therapy burden

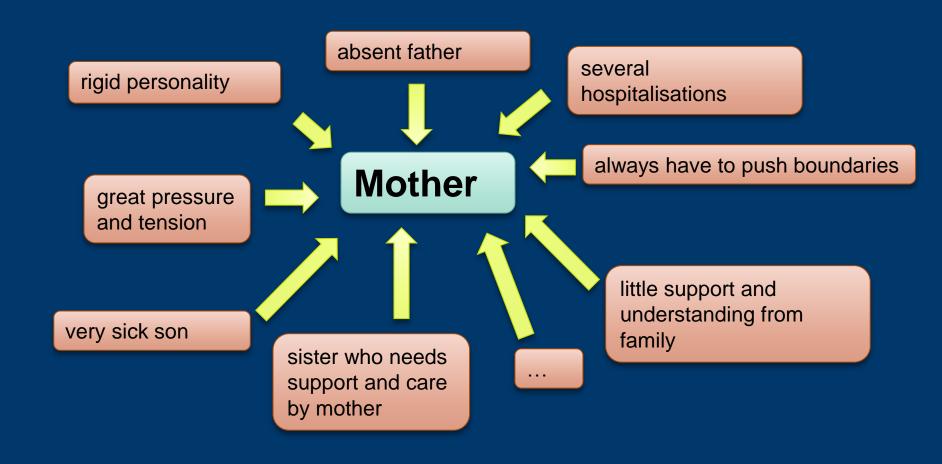
8 months

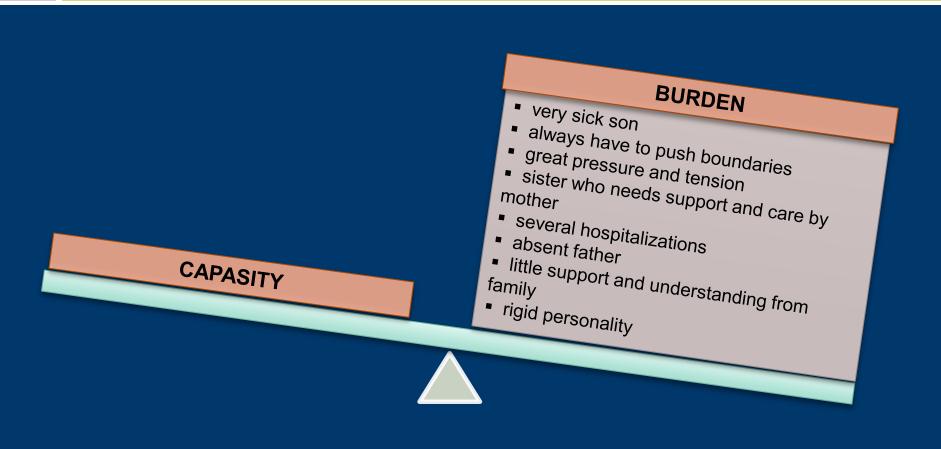
9 months

10 months

- Optimalisation therapy
  - Optimize therapy and medical treatment
  - Optimize and stimulate oral medication 'appelsauce'
  - □ General and specific motor developement
  - □ Optimize hyper-caloric diet
  - □ Reduce tube feeding

Assessing the social situation and possibilities for coping for the mother





Out of balance

- ☐ Optimalisation therapy
- □ Psychosocial and familial aspects :
  - ☐ difficult parent-child relationship
  - □ big therapy burden

#### **Need for:**

- ➤ Teaching parents
- > supporting Parents
- Building a safety net, home guidance
- >...

#### Points of discussion

- ☐ Psychological decompensation or are we overasking the parents? How hard is it to see everything in proper perspective?
- ☐ The need for education and observation of the child and parent in the diagnosis of CF

# CASE 2

#### Data on admission in Pulderbos

- 9 year old girl
- CF, dF508, meconium ileus at birth
- Chronic bronchusobstruction and bronchiectasia
- Chronic colonisation Pa and multiresistant Achromobacter Xylosodans
- Frequente respiratory excacerbations
- Longfunction: FEV1: 25 35%
- Conditional decline
- Failure to thrive, anorexia and vomiting
- Cyanotic, O2 saturation 87%
- Clubbing, thoraxhyperinflation
- Dyspnoe, tachypnoe
- Diffuse crackles

- respiratory rehabilitation
  - Intensifying respiratory physiotherapy
  - Optimize and fine tuning medication
  - Start oxygen therapy
- Approach to nutrition problems with failure to thrive
  - Optimize and fine tuning medication
  - Maximise calories
  - Tailoring schedule tube feeding
  - Stimulation of oral feeding
- Improvement of the physical condition

## Interdisciplinary approach

- Continuous nursing and pedagogic support
- Age appropriate self-reliance, taking into account her physical capabilities
- Providing school during the admission
- Guiding parents and other caregivers
  - Dealing with negotiation and behavior
  - Teaching
- Striving for reintegration at home

# Challenges and interventions in cf care Physiotherapy

#### Challenges

#### Respiratory physiotherapy

- Many viscous sputa
- Cough and vomiting mucus
- Dyspnoe
- Insufficient mucus draining through lack of strength

#### Exercize physiotherapy

Muscle mass and endurance

#### Interventions

#### Respiratory physiotherapy

- Intensive respiratory physiotherapy and drainage
- Change aerosol machine (Akita) ->
   because of inefficient breathing
- Start Bibap during physiotherapy

#### Exercize physiotherapy

- Controlled exercize with oxygen
- Use of wheelchair during (longer) distances
- Daily moments of rests with Bipap

# Challenges and interventions in cf care medication

#### Challenges

#### Interventions

Continous fine-tuning medication

- Continously adjusting inhalation medication
- Decreasing corticoids
- Antibiotics systematic
- Intermittent IV AB therapy

# Challenges and interventions in cf care feeding

#### Challenges

- Less appetite because of her CF
- Picky eater
- Many mucus and coughing while eating
- Fatigue during meal

#### Interventions

- Increasing food supply, maximize calories
- Positive stimulation and no pressure on quantity
- Adjust nutrition and physiotherapy, search for the optimal moment
- Help with meals and custom food
- Fractionated administering tube feeding

# Challenges and interventions in cf care emotional

#### Challenges

- Hard and time-consuming daily therapy
- Little understanding well being and health
- Enormous pressure on nutrition (from parents)
- Lots of negotiating about therapy and nutrition (mainly at home)
- Difficulty to recognize borders

#### Interventions

- Take away the pressure of the meals
- Make therapy duration achievable
- Educating child and parents

# Challenges and interventions in cf care sleeping

#### Challenges

- Dyspnoe and coughing at night + vomiting because of lots of mucus
- Enuresis nocturna

#### Interventions

- Oxygen and intermittent Bipap during sleep
- Enuresis nocturna : no priority because of her medical conditions

## After resignation Pulderbos

- Further deterioration
- Admission to hospital
- Signed up for lungtransplantation
- Pretransplant she came on the intensieve care unit (on a ventilator and eventually ECMO)
- □ She has been transplanted at the age of 10

### Points of discussion

- ☐ You can not always achieve all goals and aims
- ☐ Continuously fine tuning goals and aims
- Sometimes it is a whole achievement to stabilize the condition

# Thank you for listening and enjoy the congres!