

# Exercise and Pulmonary Rehabilitation in Children with Chronic Lung Diseases

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# What is Chronic lung disease?

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- CLD of prematurity
- Prolonged MV use
- Chronic aspiration
- Chronic infection
- Bronchiectasis
- Chronic ILD
- Asthma
- etc.

# CLD: Burden of the disease

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Jan - Dec 2006

Out-patient service

- 464/1,095 visits (42%)

- 116 cases

- Chronic aspiration 42 cases

- BPD 39 cases

- Others 35 cases

- 20% on home oxygen therapy

- 2% on home ventilator

} 70%



# CLD: Burden of the disease

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Jan - Dec 2006

In-patient service

- 246/3,800 admissions (6.5%)
  - 246 cases
    - Chronic aspiration 91 cases
    - BPD 34 cases
    - Others 121 cases
  - Median age 1.3 yrs
  - Admission rate 2.5/case/yr
  - Duration of admission 70 days/case/yr
- } 50%

# CLD: Pulmonary function

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- Depend on underlying disease
- BPD - obstructive, air trapping, BHR
- Bronchiectasis
  - Mixed obstructive/restrictive, BHR
  - Not related to CT findings
- ILD
  - Restrictive
  - Diffusion defect