

Exercise and Pulmonary Rehabilitation in Children with Chronic Lung Diseases

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What is Chronic lung disease?

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

CLD: Burden of the disease

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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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

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