



2006 CAPHC Conference

# Meeting the Needs of Our Children & Youth:

“Using our Canadian Data To Determine Capacity”

## Showcasing Our CAPHC-CPDSN Data

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# Accessing Pan-Canadian Paediatric Data In The Past ...



# Three Questions ...

- ✓ **Where are the Kids in Canada?**
  - National & Provincial paediatric populations
- ✓ **Where are the Kids being treated?**
  - CAPHC-CPDSN vs. “Non” CAPHC-CPDSN
  - Within Province vs. Out of Province
- ✓ **Why are the Kids being treated?**
  - National Paediatric MRDX by:
    - Volume
    - Patient Days
  - Snapshot of Kids With Asthma



# “Non” CAPHC-CPDSN Centres

- **All other centres (outside CPDSN) in Canada that report paediatric data**
  - includes the CAPHC centres which are not currently CAPHC-CPDSN members
- **Identified by CHAP<sup>1</sup> Peer Groups:**
  - ✓ 1 – 49 bed hospitals
  - ✓ 50 – 99 bed hospitals
  - ✓ 100 – 199 bed hospitals
  - ✓ 200 – 399 bed hospitals
  - ✓ 400+ bed hospitals
  - ✓ Teaching hospitals



<sup>1</sup> Comparison of Hospital Activity Program, CIHI



# CAPHC-CPDSN Definitions

- **“Acute Care” Paediatric Cases:**
  - **Includes patients:**
    - ✓ Aged 0 – 17 years with an inpatient hospitalization
  - **Excludes ALL:**
    - ✓ Obstetrical Cases (MCC = 14 / Main Pt Svc = 51, 52, 53, 59)
    - ✓ ALC Admissions (Main Pt Svc = 99)
    - ✓ Stillbirths (Entry Code = S)
    - ✓ “Normal” Newborns  
(ICD10CA MRDX = Z38\* / ICD9CM & ICD9 MRDX = V3\*)



# CAPHC-CPDSN Definitions

- **Age Divisions:**
  - ✓ **Neonates = Age 0 – 28 days**
  - ✓ **Children = 29 days – 13 years**
  - ✓ **Youth = 14 – 17 years**



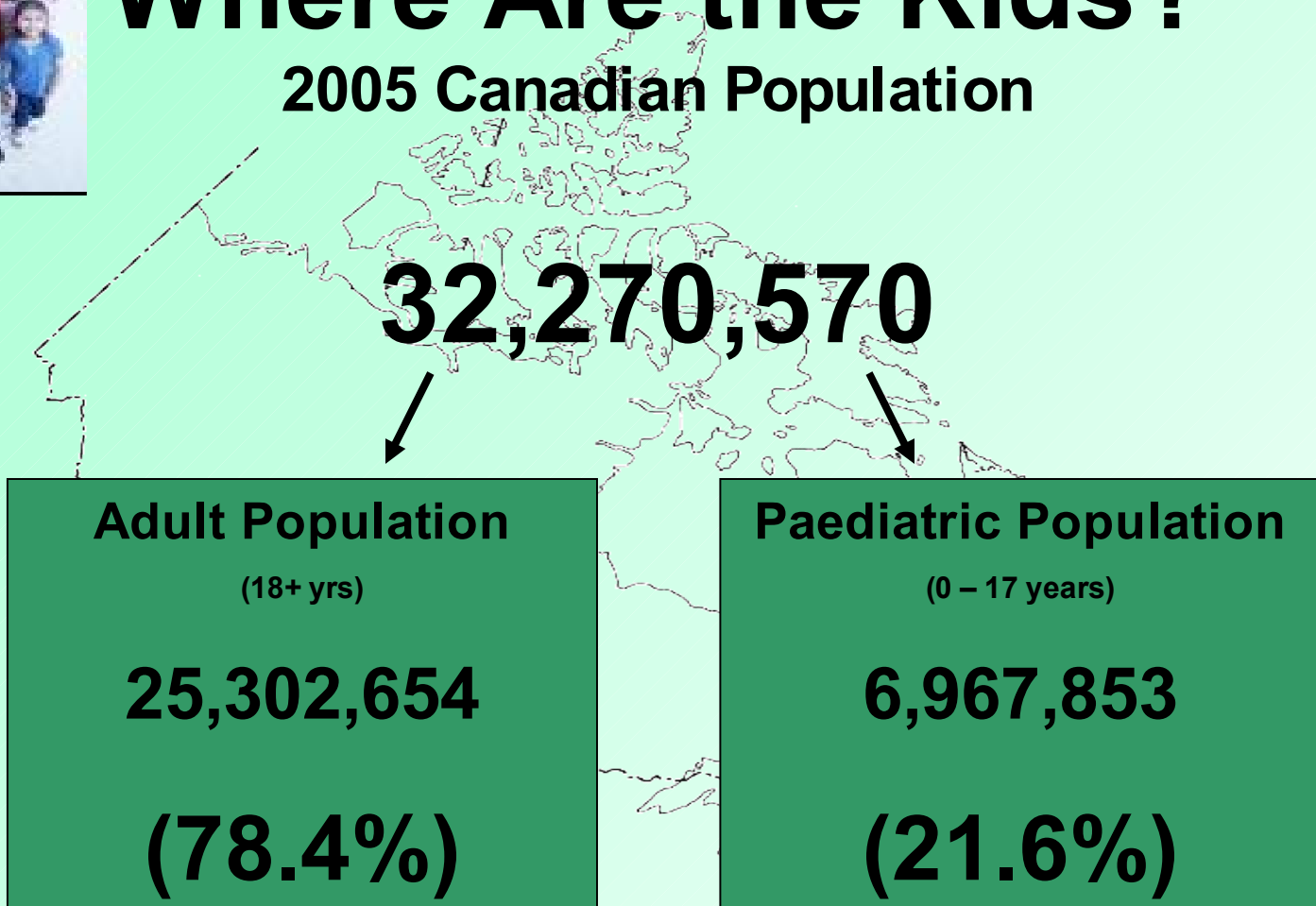
# CAPHC-CPDSN Data Sources

- **Statistics Canada** (Population Data)
  - Taken from 2005 Annual Demographic Statistics report
- **CIHI Portal** (Clinical Data)
  - **Current Data Limitations:**
    - F2001 – F2004 Acute Care Inpatient Data
    - Partial Quebec dataset (4 CAPHC-CPDSN centres)
  - **Data Reliability**
    - Baseline paediatric numbers validated by CAPHC-CPDSN centres for F2001 – F2004



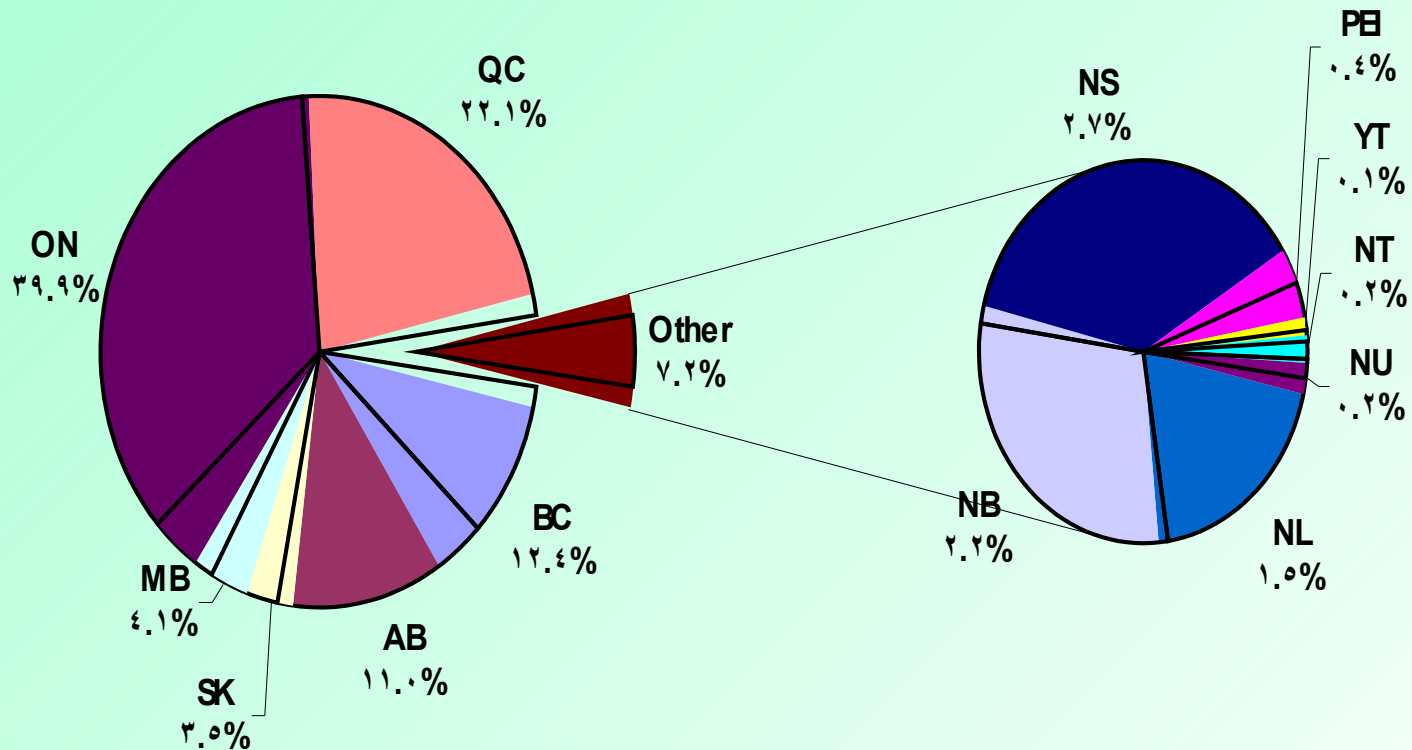
# Where Are the Kids?

2005 Canadian Population



# Where Are the Kids?

% Canadian Paediatric Population by Province/Territory\*

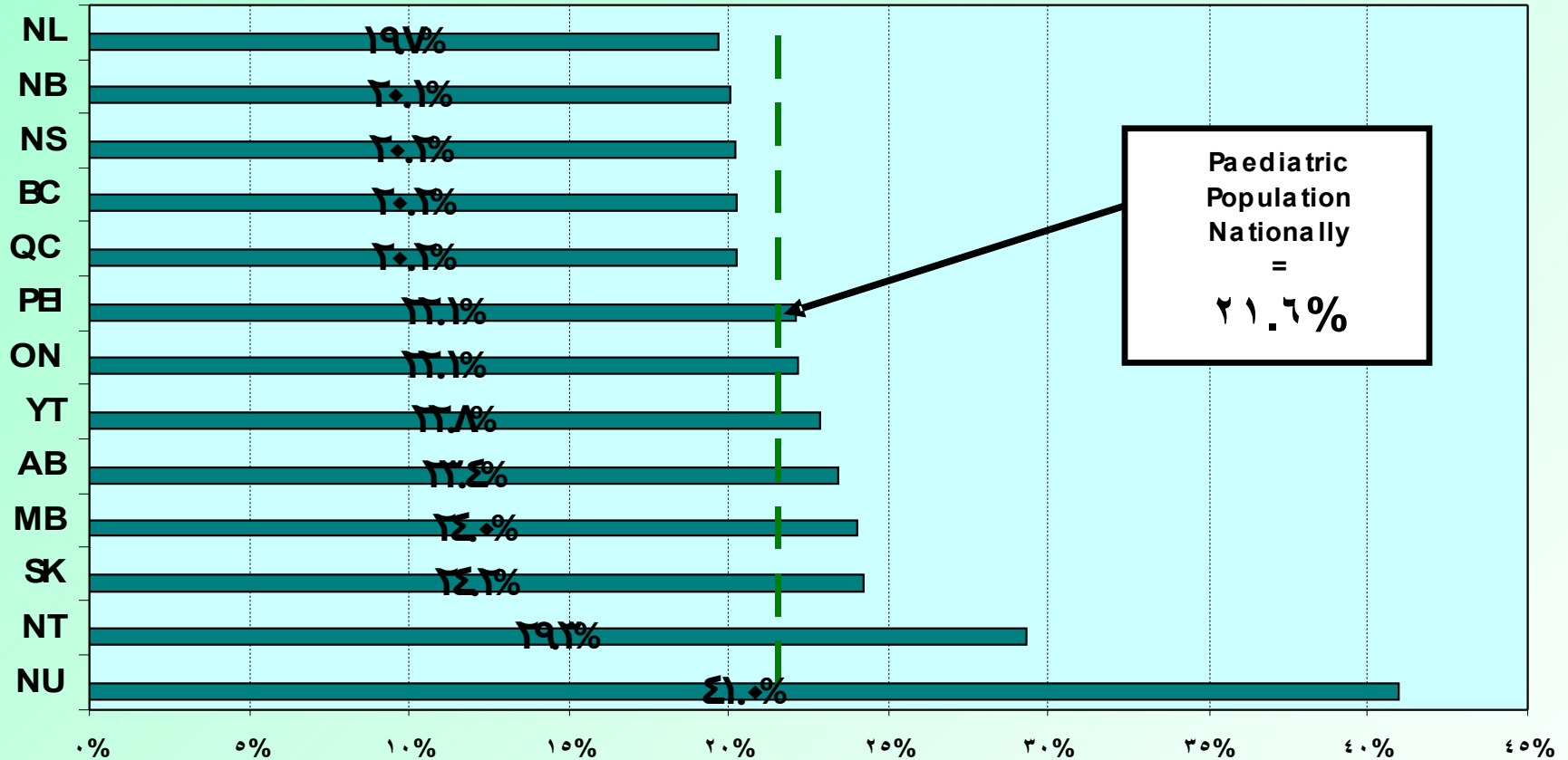


\* Based on 2005 national population data



# Where Are the Kids?

## % Paediatric Population Within Each Province

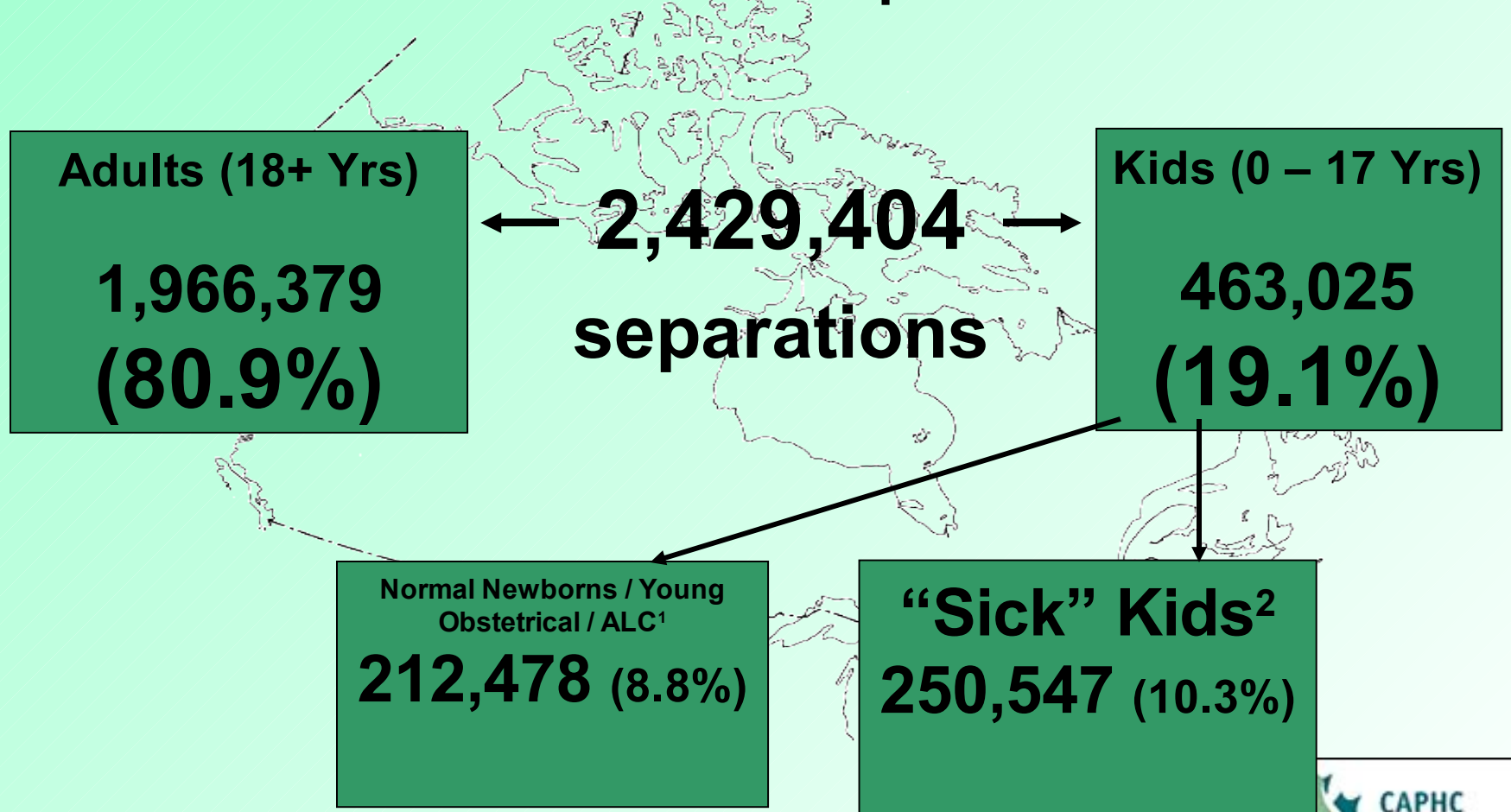


\* Based on 2005 provincial population data



# Where Are the Kids being Treated?

## F2004 Canadian Hospitalizations\*



\*Excluding Quebec (entire provincial dataset not currently available for reporting)

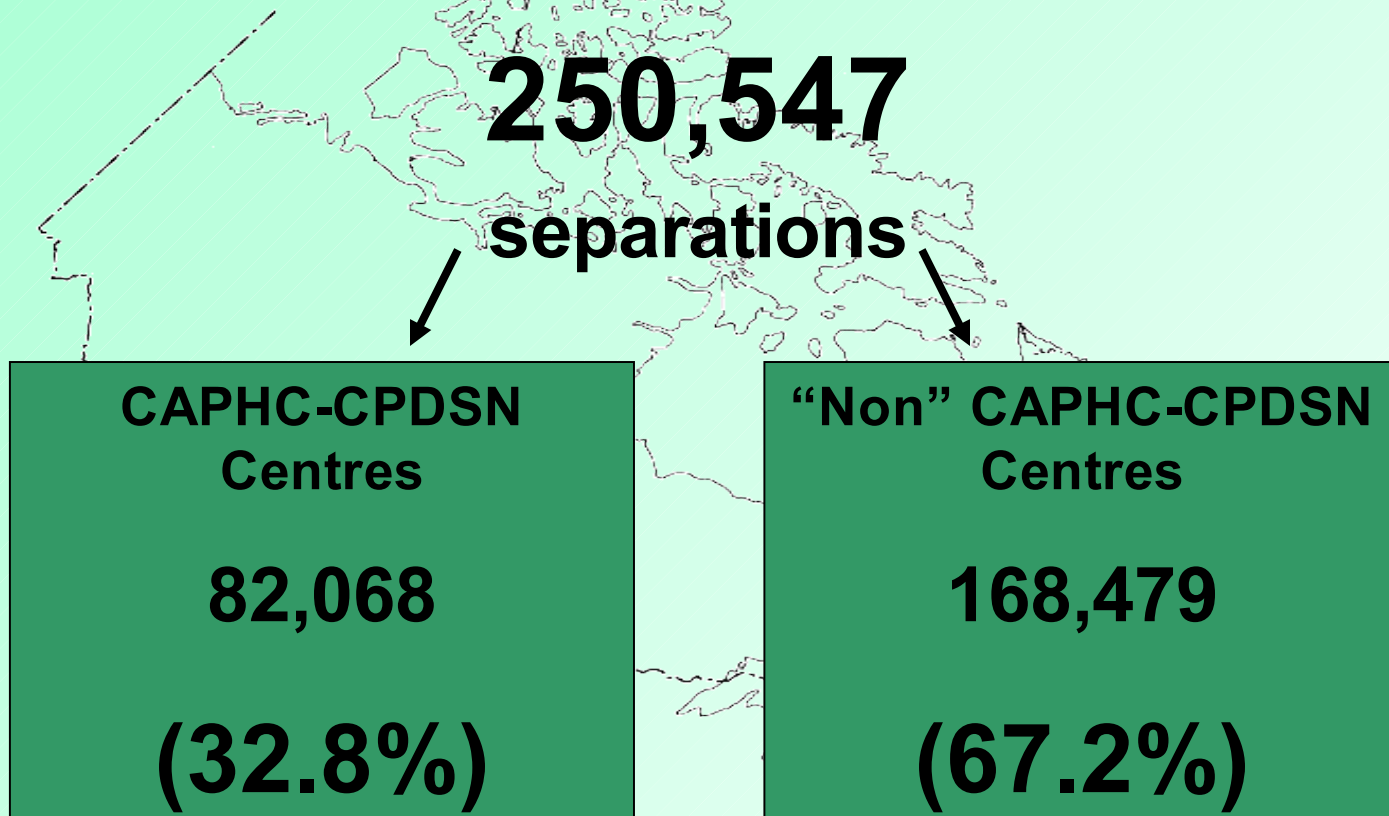
<sup>1</sup>Alterate Level of Care

<sup>2</sup> CAPHC-CPDSN national definition of paediatrics applied



# Where Are the Kids being Treated?

F2004 Canadian Paediatric Hospitalizations\*

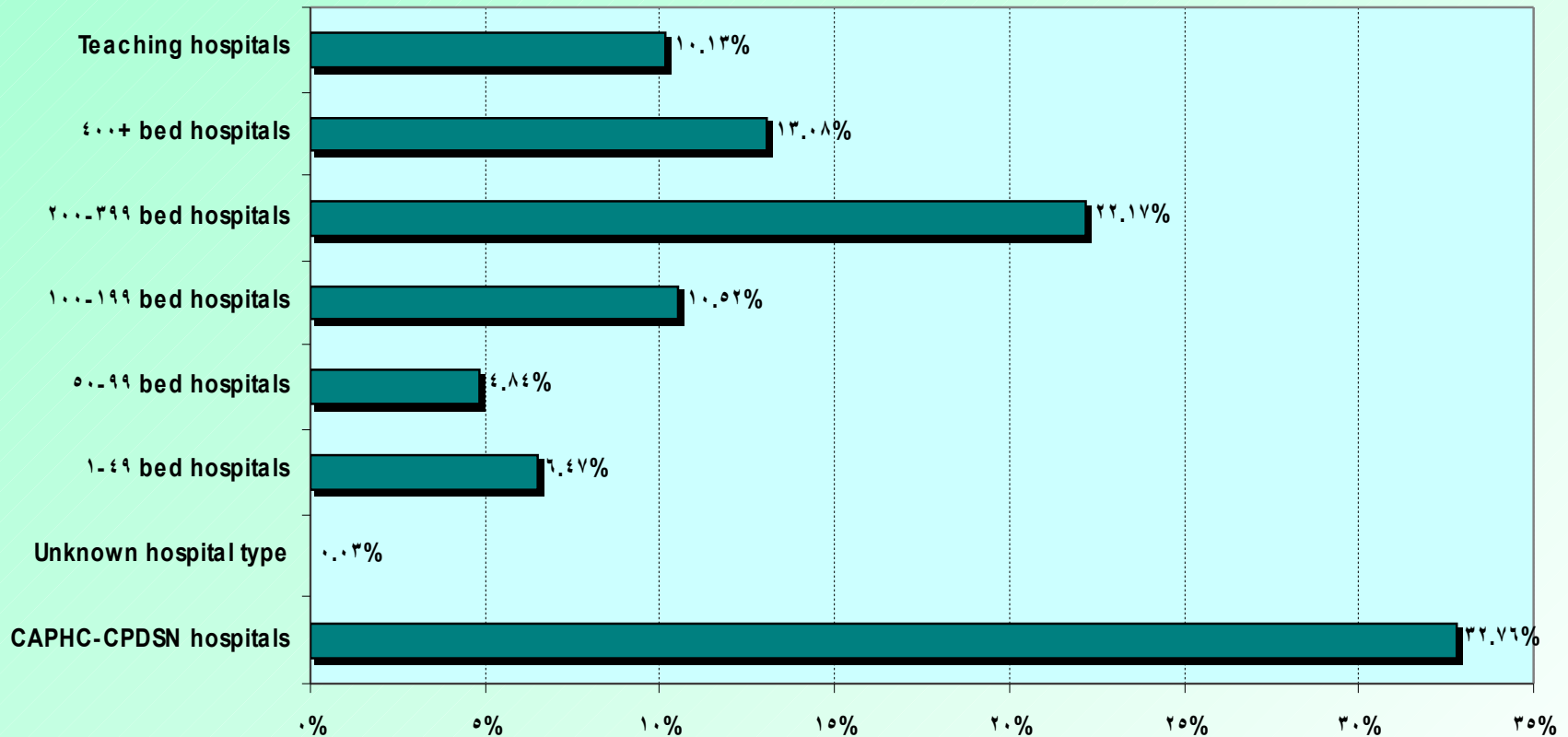


\* Excluding Quebec (entire provincial dataset not currently available for reporting)



# Where Are the Kids being Treated?

% F2004 Canadian Paediatric Hospitalizations by Facility Type\*

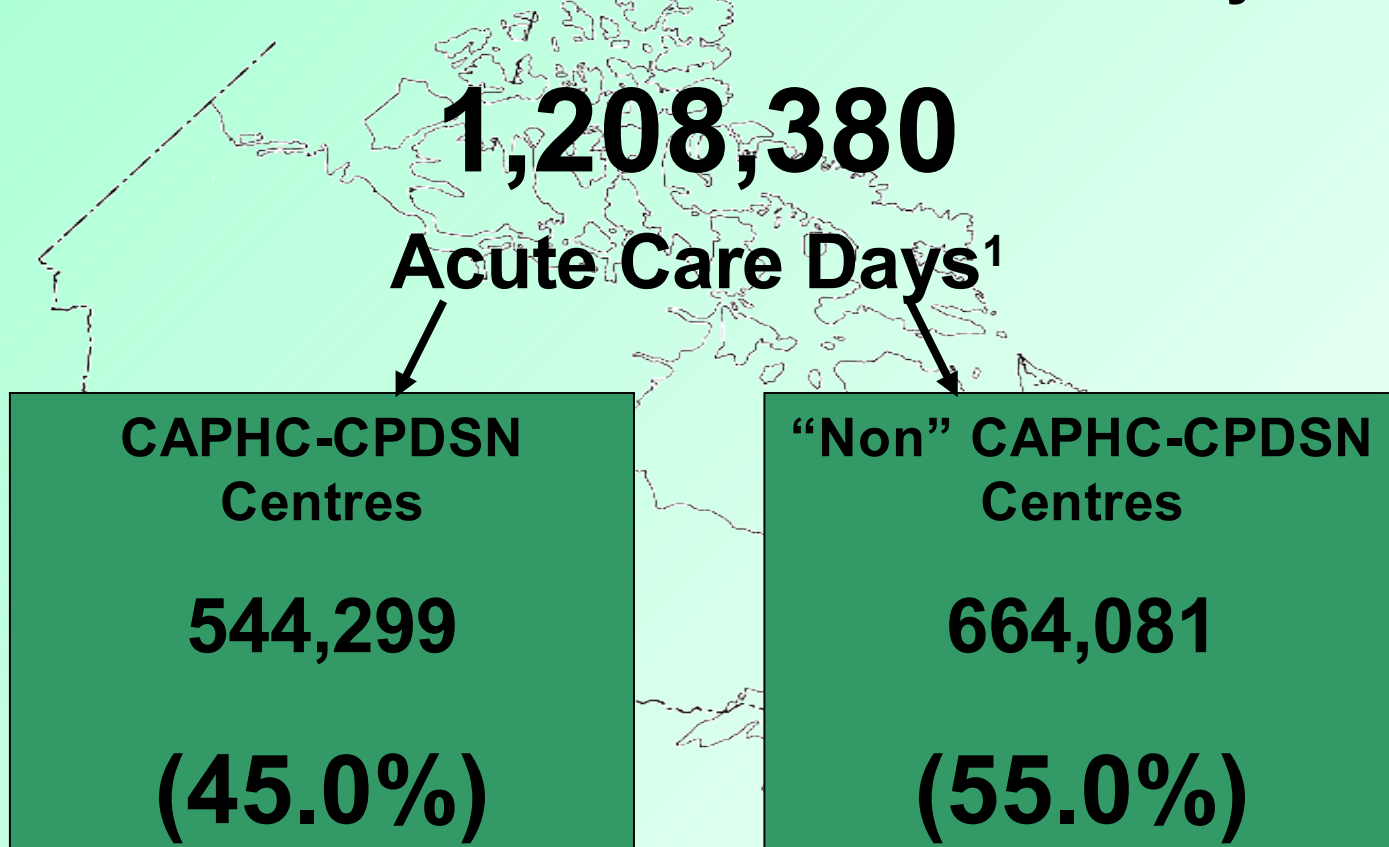


\* Excluding Quebec (entire provincial dataset not currently available for reporting)



# Where Are the Kids being Treated?

F2004 Canadian Paediatric Patient Days\*



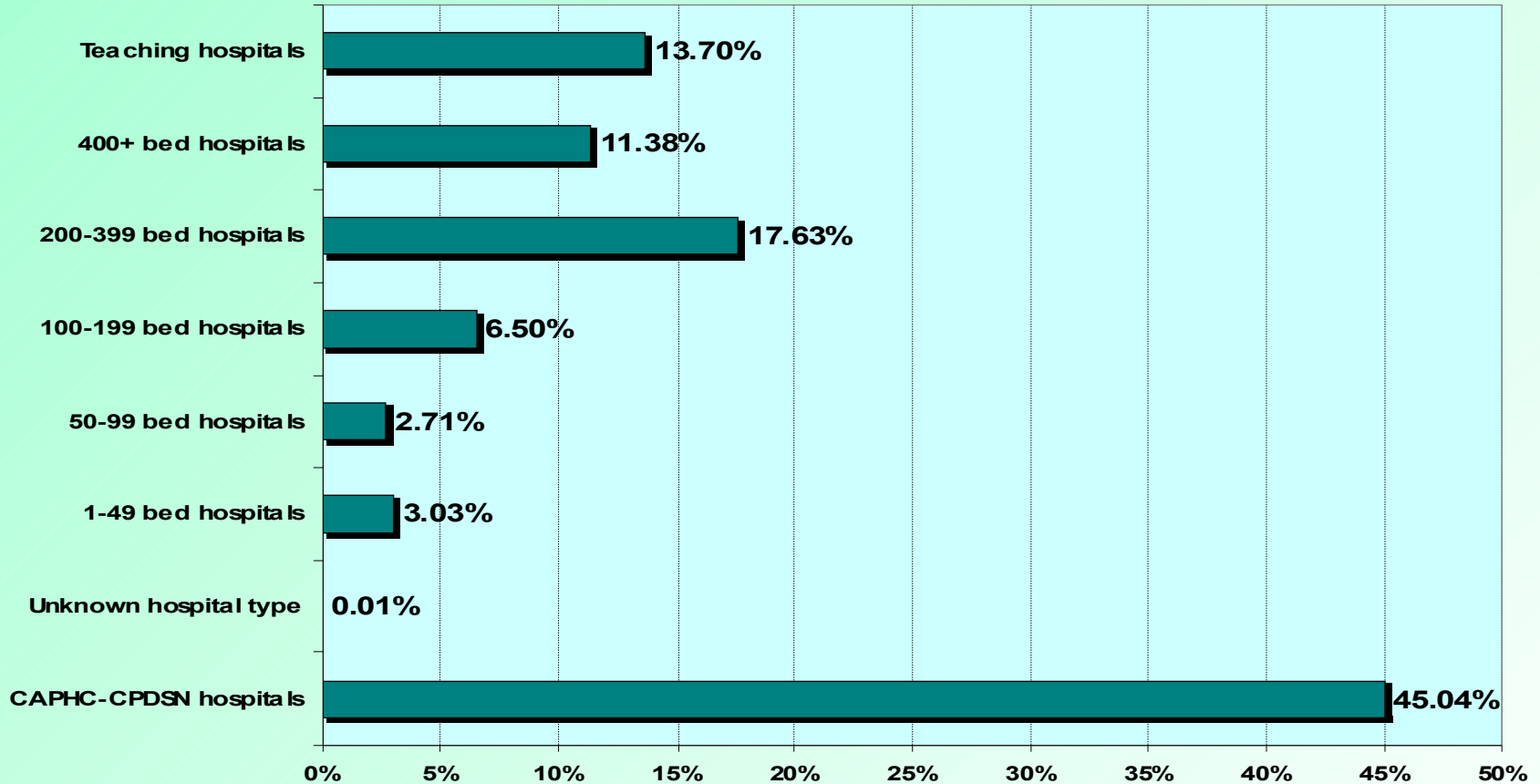
\* Excluding Quebec (entire provincial dataset not currently available for reporting)

<sup>1</sup> ALC (Alternate Level of Care) days excluded



# Where Are the Kids being Treated?

% F2004 Canadian Paediatric Patient Days by Facility Type\*

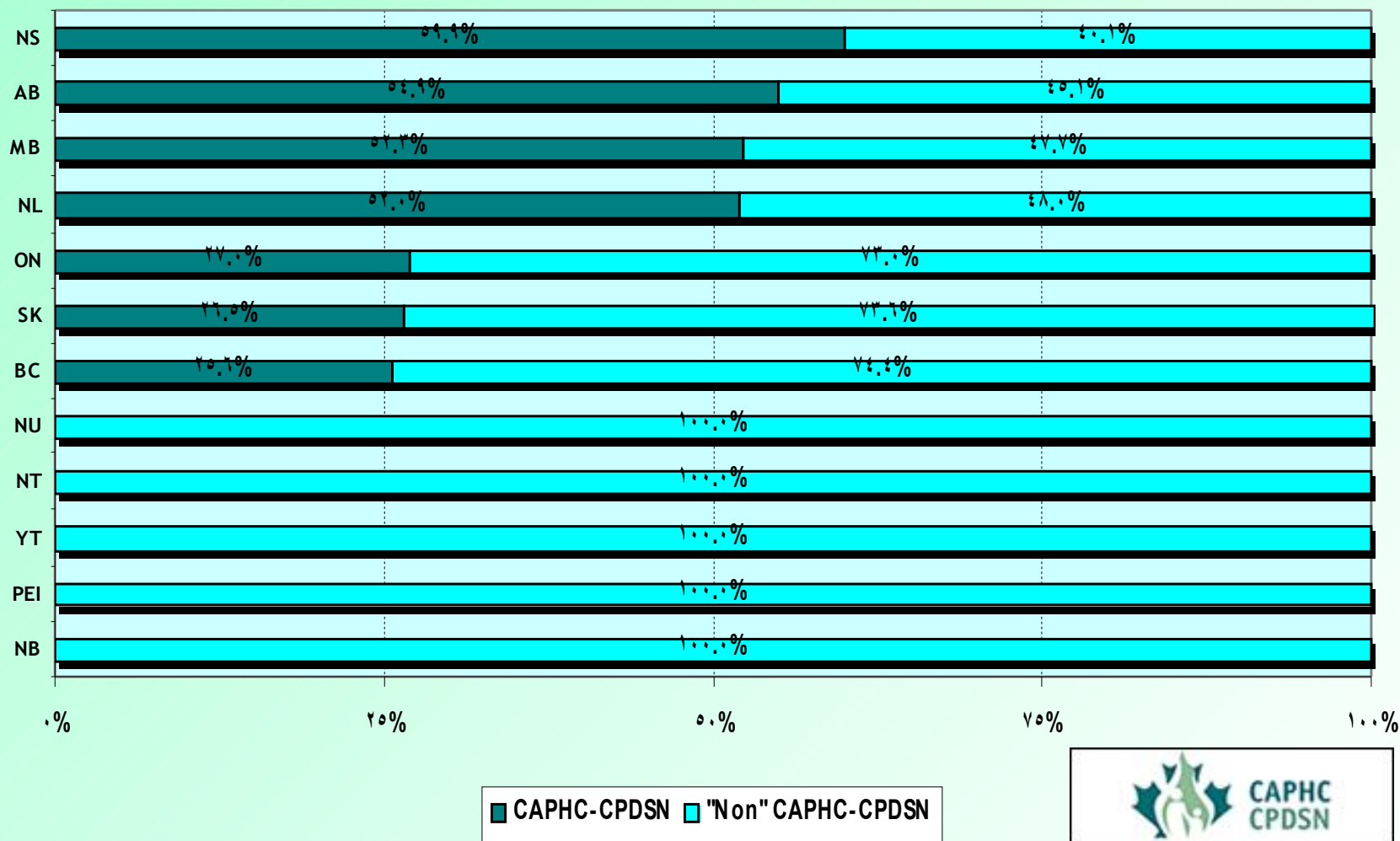


\* Excluding Quebec (entire provincial dataset not currently available for reporting)



# Where Are the Kids being Treated?

## F2004 Provincial Paediatric Cases\*: CAPHC-CPDSN Centres vs. "Non" CAPHC-CPDSN Centres



\* Excluding Quebec (entire provincial dataset not currently available for reporting)

# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### British Columbia Stats:

BC's "Sick" Kids:  
98.4% treated Provincially  
1.6 % treated Out of Province (AB-88%)

BC's Hospitals:  
Treated 35,188 paediatric cases:  
31.4% Neonates / 50.5% Children / 18.1% Youth



### Alberta Stats:

AB's "Sick" Kids:  
98.8% treated Provincially  
1.2 % treated Out of Province (SK-47%/BC-32%/ON-27%)

AB's Hospitals:  
Treated 38,935 paediatric cases:  
31.0% Neonates / 53.3% Children / 15.7% Youth



# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### Saskatchewan Stats:

**SK's "Sick" Kids:**

**95% treated Provincially**

**5 % treated Out of Province (AB-63%/32%-MB)**

**SK's Hospitals:**

**Treated 16,428 paediatric cases:**

**20.1% Neonates / 63.4% Children / 16.5% Youth**



### Manitoba Stats:

**MB's "Sick" Kids:**

**97.4% treated Provincially**

**2.6 % treated Out of Province (AB-39%/SK-29%/ON-25%)**

**MB's Hospitals:**

**Treated 13,004 paediatric cases:**

**27.1% Neonates / 54.1% Children / 18.8% Youth**



# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### Ontario Stats:

ON's "Sick" Kids:

99.5% treated Provincially

0.5 % treated Out of Province (MB-73%)

ON's Hospitals:

Treated 119,055 paediatric cases:

36.1% Neonates / 50% Children / 13.9% Youth



### Newfoundland Stats:

NL's "Sick" Kids:

98.1% treated Provincially

1.9 % treated Out of Province (ON-48%/NS-37%)

NL's Hospitals:

Treated 5,400 paediatric cases:

16.1% Neonates / 62.1% Children / 21.7% Youth



# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### Nova Scotia Stats:

NS's "Sick" Kids: 97.3% treated Provincially  
2.7 % treated Out of Province  
(NB-67%/ON-23%)

NS's Hospitals: Treated 9,352 paediatric cases:  
23.6% Neonates / 58.5% Children / 17.9% Youth

### New Brunswick Stats:

NB's "Sick" Kids: 92.2% treated Provincially  
7.8 % treated Out of Province  
(NS-93%)

NB's Hospitals: Treated 9,710 paediatric cases:  
22.2% Neonates / 62.5% Children / 15.3% Youth

### Prince Edward Island Stats:

PEI's "Sick" Kids: 87.8% treated Provincially  
12.2 % treated Out of Province  
(NS-92%)

PEI's Hospitals: Treated 1,677 paediatric cases:  
18.3% Neonates / 56.9% Children / 24.7% Youth

# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### North West Territory Stats:

NT's "Sick" Kids:

82.8% treated Provincially

17.2 % treated Out of Province (AB-88%/BC-7%)

NT's Hospitals:

Treated 1,077 paediatric cases:

24.8% Neonates / 58.4% Children / 16.8% Youth



### Yukon Territory Stats:

YT's "Sick" Kids:

80.5% treated Provincially

19.5 % treated Out of Province (BC-52%/AB-48%)

YT's Hospitals:

Treated 352 paediatric cases:

29.6% Neonates / 49.1% Children / 21.3% Youth



# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### Nunavut Stats:

#### NU's "Sick" Kids:

29.9% treated Provincially

70.1 % treated Out of Province

- MB-44.4%
- NT-31.4%
- ON-16.5%
- AB-6.8%

#### NU's Hospitals:

Treated 369 paediatric cases:

28.2% Neonates / 51.5% Children / 20.3% Youth

# Where Are the Kids Being Treated?

## F2004 Province-Specific Paediatric Data



### Quebec Stats\*:

#### QC's "Sick" Kids:

?? treated Provincially

1,366 treated Out of Province<sup>1</sup>

- ON-82.6%
- NB-13.4%

#### QC "CAPHC-CPDSN" Hospitals:

Treated 34,813 paediatric cases:

33.4% Neonates / 56.3% Children / 10.3% Youth

\* Quebec data limited to 4 CAPHC-CPDSN centres at this time (CHUQ, CHUS, Ste-Justine & Montreal Children's)

<sup>1</sup> As reported by non-QC centres via CIHI DAD



# Why Are the Kids Being Treated?

## F2004 Top 5 Canadian Paediatric Most Responsible Diagnoses\*: By Volume

### CAPHC-CPDSN Centres

2. P07 Disorders related to short gestation/low weight NEC (6.3%)
3. Z51 Other Medical Care<sup>1</sup> (3.3%)
4. J45 Asthma (2.9%)
5. P22 Respiratory distress of newborn (2.8%)
6. J21 Acute Bronchiolitis (2.8%)

Top 5 MRDX account for  
**18.1%**  
of total cases treated

### “Non” CAPHC-CPDSN Centres

2. P07 Disorders related to short gestation/low weight NEC (8.6%)
3. P22 Respiratory distress of newborn (5.1%)
4. P59 Neonatal jaundice from other / unspecified causes (4.8%)
5. J45 Asthma (4.6%)
6. J18 Pneumonia, organism unspecified (2.8%)

Top 5 MRDX account for  
**27.3%**  
of total cases treated

\*Excluding Quebec (entire provincial dataset not currently available for reporting)

<sup>1</sup> Primarily comprised of “Admissions for Chemotherapy”

# Why Are the Kids Being Treated?

## F2004 Top 5 Canadian Paediatric Most Responsible Diagnoses\*: By Patient Days

### CAPHC-CPDSN Centres

2. P07 Disorders related to short gestation/low weight NEC (16.4%)
3. P22 Respiratory distress of newborn (2.6%)
4. F50 Eating Disorders (2.4%)
5. J21 Acute Bronchiolitis (1.9%)
6. Z51 Other Medical Care<sup>1</sup> (1.7%)

Top 5 MRDX account for  
**25%**  
of total acute patient days<sup>2</sup>

### “Non” CAPHC-CPDSN Centres

2. P07 Disorders related to short gestation/low weight NEC (27.8%)
3. P22 Respiratory distress of newborn (5.2%)
4. P59 Neonatal jaundice from other / unspecified causes (3.9%)
5. J18 Pneumonia, organism unspecified (3.1%)
6. J21 Acute Bronchiolitis (2.9%)

Top 5 MRDX account for  
**42.9%**  
of total acute patient days<sup>2</sup>

\*Excluding Quebec (entire provincial dataset not currently available for reporting)

<sup>1</sup> Primarily comprised of “Admissions for Chemotherapy”

<sup>2</sup> ALC (Alternate Level of Care) days excluded

# Snapshot of Kids With Asthma

F2004 Canadian Paediatric Asthma Hospitalizations\*



**10,082**  
**Hospitalizations**  
**for Asthma<sup>1</sup>**

**Accounted for**  
**21,161**  
**Acute Patient Days**

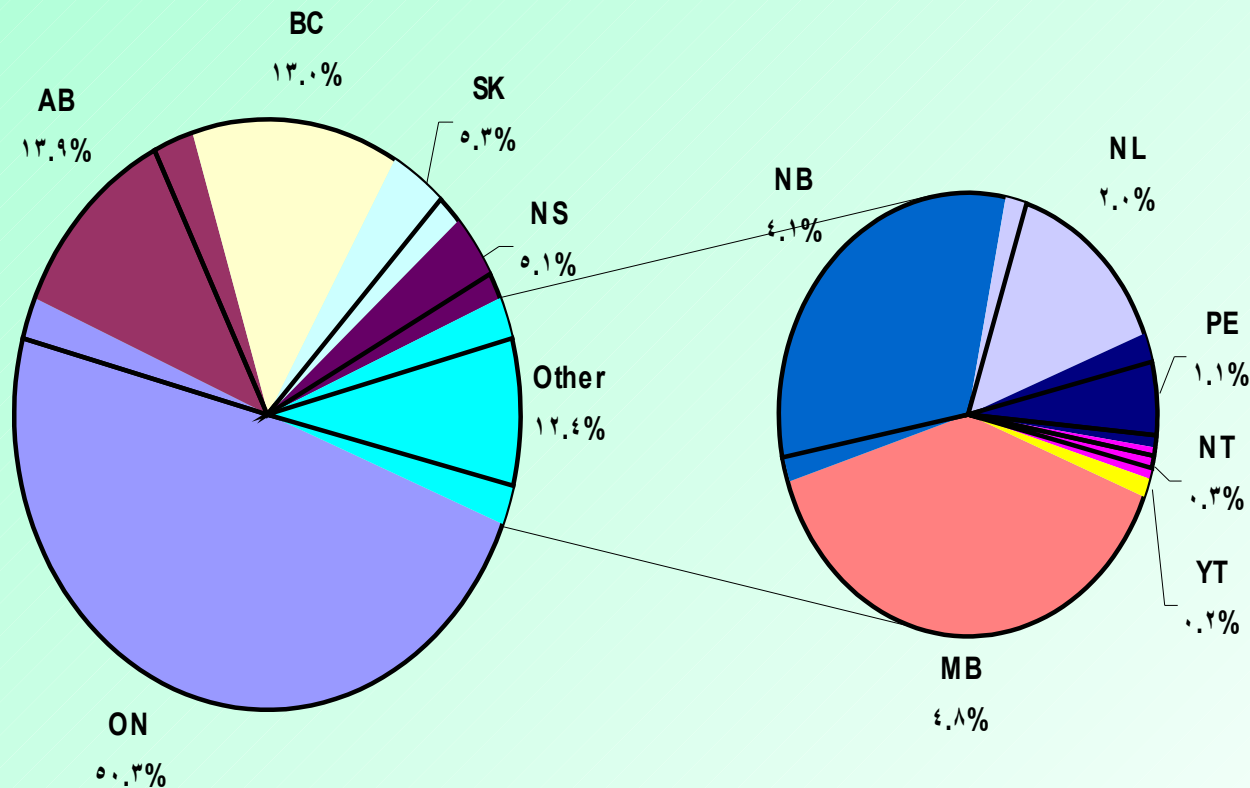
\* Excluding Quebec (entire provincial dataset not currently available for reporting)

<sup>1</sup> Based on all paediatric discharges with CMG 146 (Asthma)

# Snapshot of Kids With Asthma

## F2004 Canadian Paediatric Asthma Hospitalizations\*

### % by Province/Territory



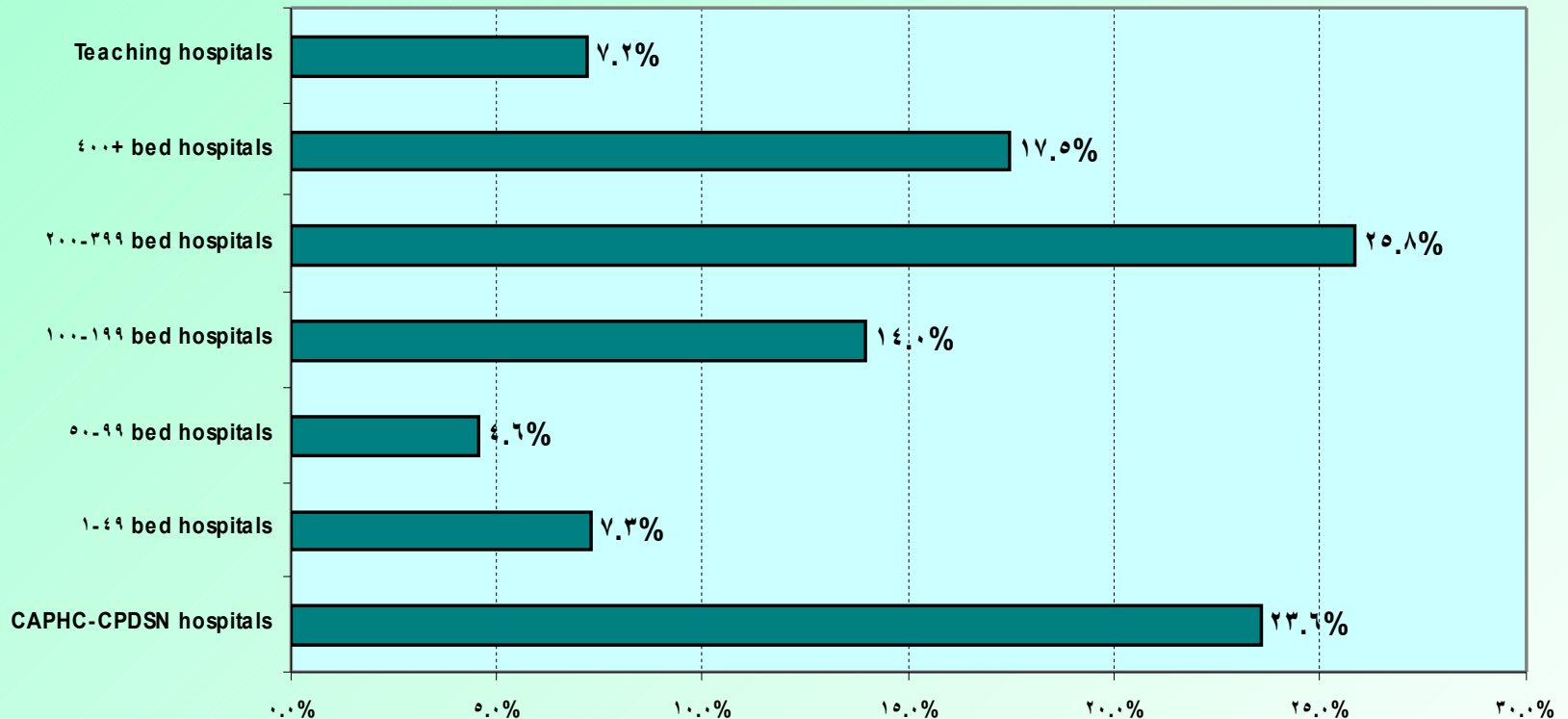
\* Excluding Quebec (entire provincial dataset not currently available for reporting)



# Snapshot of Kids With Asthma

## F2004 Canadian Paediatric Asthma Hospitalizations\*

% by Facility Type



\* Excluding Quebec (entire provincial dataset not currently available for reporting)



# Accessing Pan-Canadian Paediatric Data Today & In the Future ...

