

# Queensland Cerebral Palsy Register Successful consent-based ascertainment of a 10-year cohort

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#### BACKGROUND AND OBJECTIVE Tab 1: POPULATI

Cerebral palsy (CP) registers gather data about populations of people with CP that can be analysed to inform service planning or provide sampling frames for research into treatments and causes. However, recent stricter privacy legislation has limited how data from individuals can be obtained, stored and used. The question now is can representative ascertainment, adequate numbers and data validity be achieved via a consent-based register?

#### METHODS

The Queensland Cerebral Palsy Register (QCPR) was established in 2005 as a register of people with CP who were born in, or have received care in Queensland, Australia.

Consent-based ascertainment involves 5 stages which is achieved with input from staff of the QCPR (1.5FTE) and clinical services: i) Identify participants; ii) Gain informed consent; iii) Obtain demographic data; iv) Verify diagnosis and classification; v) Enter data.

**Reporting criteria** for a birth year are: i) number of registrants meets/exceeds a prevalence of 1.5/1000 live births, and ii) reported fields contain data for at least 80% of participants.

**Data** was collected for 15 variables:

Demographics	CP Classification	Birth statistics	Associated Impairments
<ul><li>Gender</li><li>Indigenous status</li></ul>	<ul><li>Motor type</li><li>Motor distribution</li><li>Motor severity (GMFCS)</li></ul>	<ul> <li>Maternal age</li> <li>Gestational age</li> <li>Birth weight</li> <li>Plurality</li> <li>Neonatal care</li> </ul>	<ul> <li>Vision</li> <li>Hearing</li> <li>Intellectual function</li> <li>Speech</li> <li>Epilepsy</li> </ul>

#### RESULTS

**Ascertainment:** In 2012, after 7 years of data collection, the QCPR achieved consent-based ascertainment of 1980 individuals (with a 99.8% consent rate of those identified).

Minimum reporting prevalence was exceeded for a cohort of 10 birth years (1996–2005), which included 881 children, of whom 702 were born or received neonatal care in Queensland, equating to a prevalence of 1.6/1000 live births.

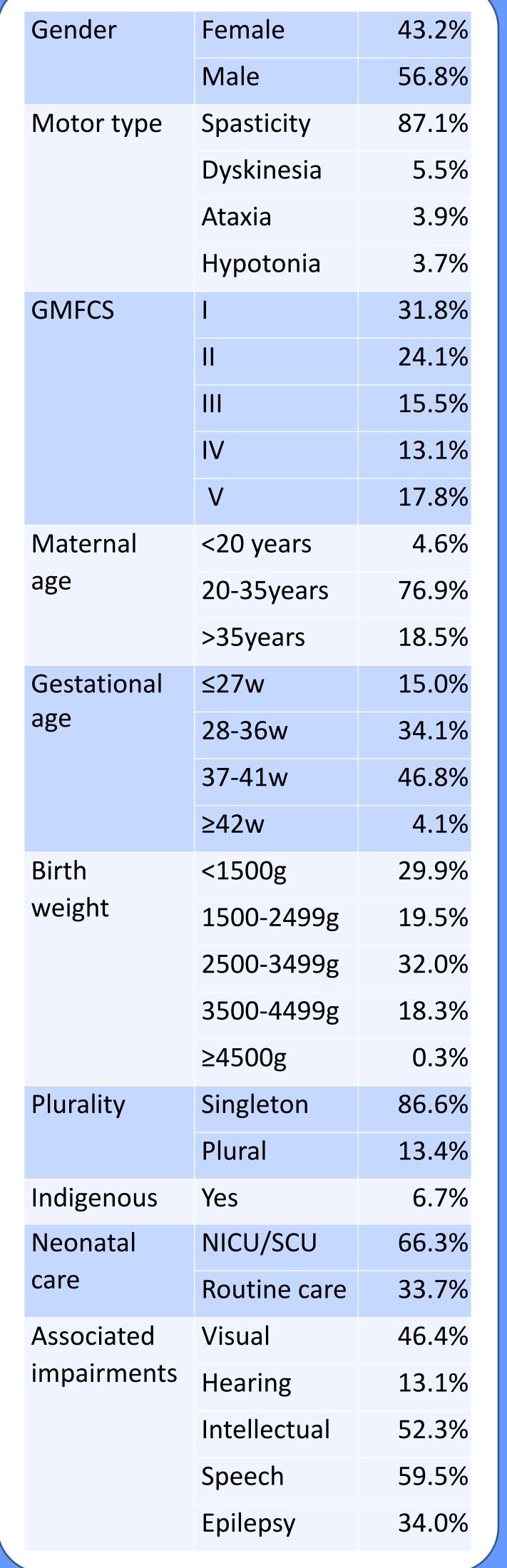
**Data** was reported for 15 variables (**Table 1**) and their interactions (**Figures 1-5**) (excluding post-neonatally acquired cases).

**Population characteristics** were consistent with data from registers with mandatory reporting.

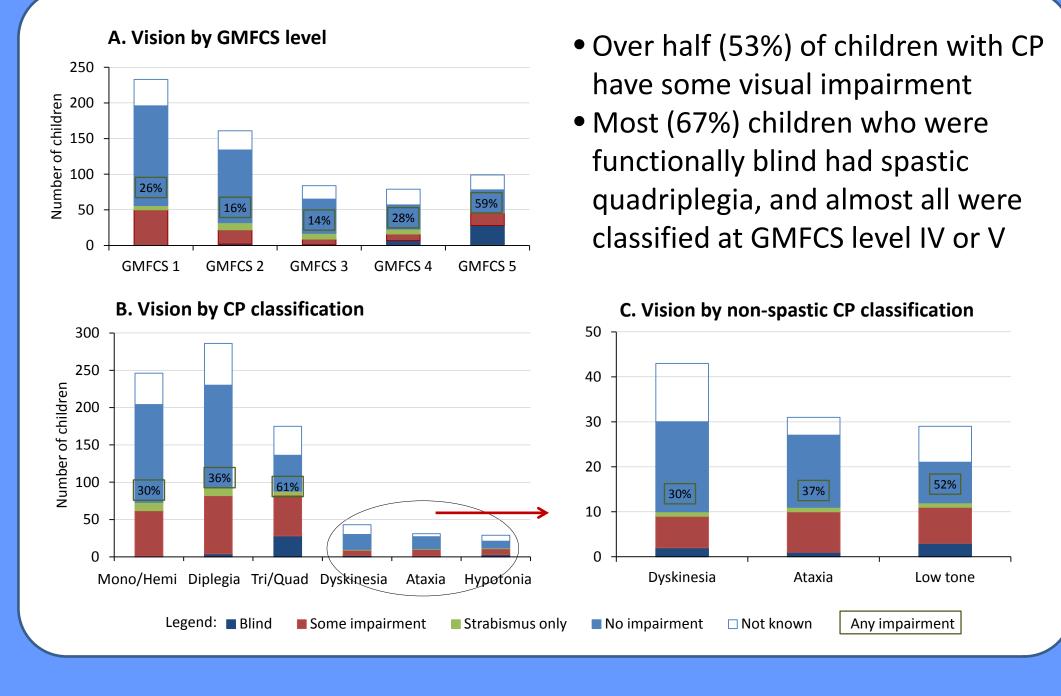
#### CONCLUSION

- Consent-based registers are viable for obtaining population-based ascertainment if operational agreements exist with service providers in the geographical catchment.
- At minimum ascertainment, population descriptions are similar to non-consent registers.
- **Dedicated register staff are essential** for prospective recruitment, consent and follow up processes. Additional staff are required to retrospectively ascertain adults with CP.

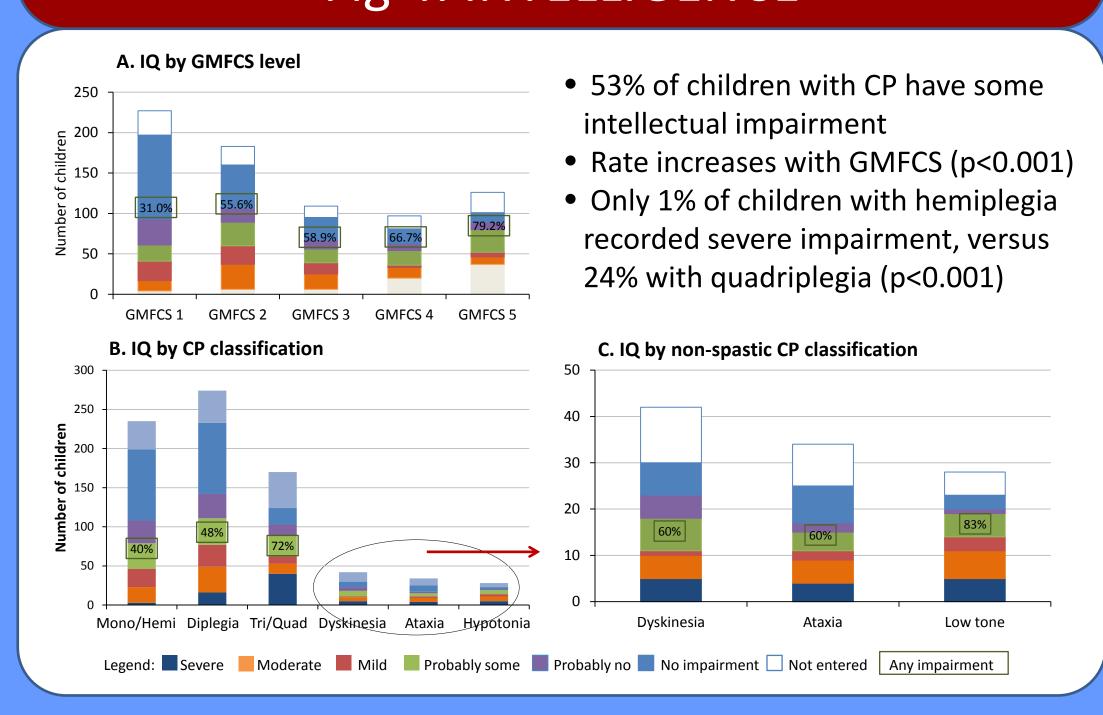
## Tab 1: POPULATION CHARACTERISTICS



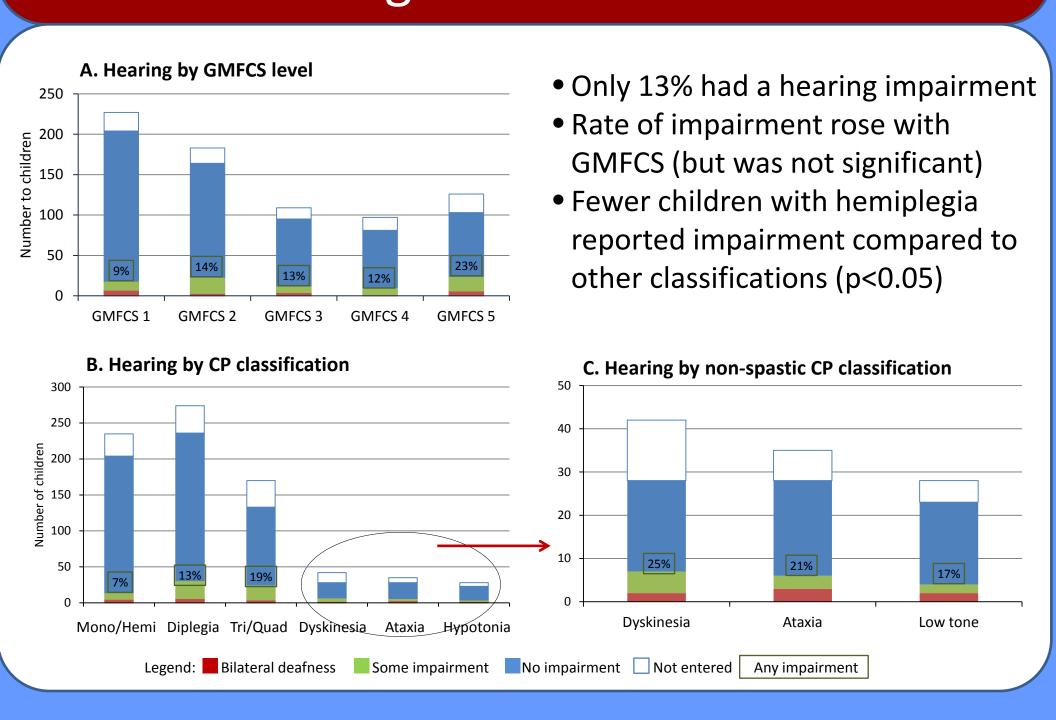
#### Fig 1: VISION



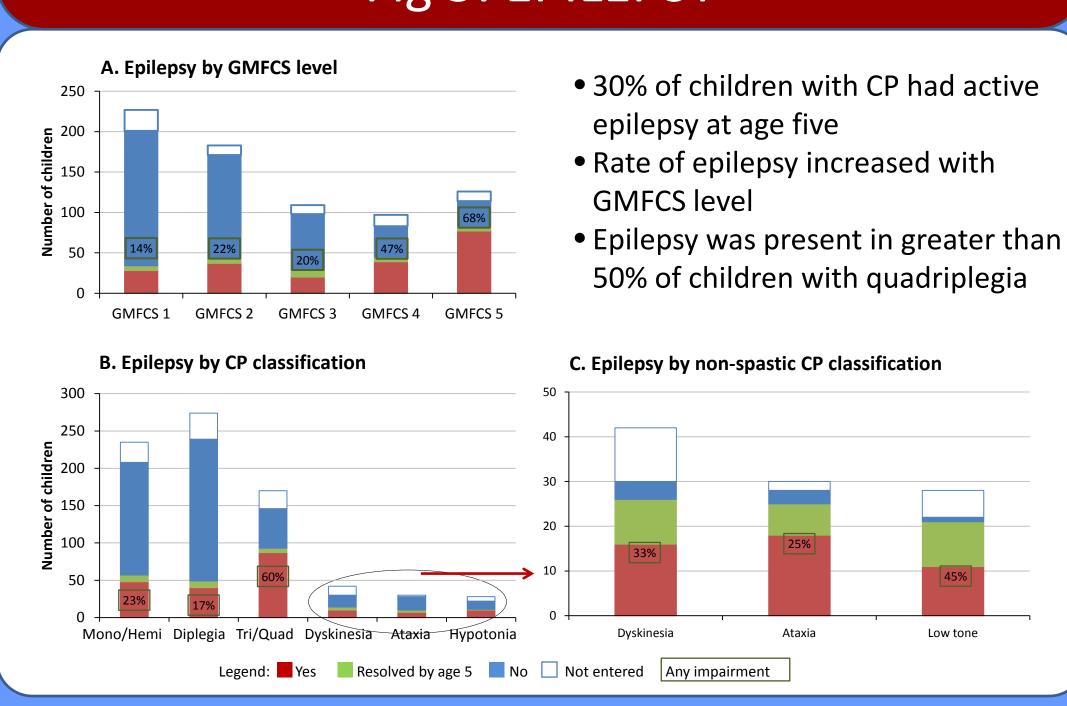
#### Fig 4: INTELLIGENCE



#### Fig 2: HEARING



#### Fig 5: EPILEPSY



#### Fig 3: SPEECH

