

Access to core preventative health care for children known to child protection services

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Background

Children in care have unmet health needs

Australian study – 60% failed developmental screening¹

Gateway pilot – emotional and behavioural concerns (45%), dental issues (37%), incomplete immunisations (27%)²

Children commonly enter state care between 5 and 10 years of age

Already having 4 contacts with child protection services^{3,4}

Stahmer et al found those referred but **not** placed in care have poorer access to services than those in care⁵

Aim

Describe access to core preventative health care services for children known to child protection services

Enrolment and, where possible, utilisation

Examine any sociodemographic and regional differences in access

National Child Protection Alert System (NCPAS)

Initiated 2008, fully adopted across New Zealand 2016

Alert hospital clinicians to child protection concerns

Referral to Oranga Tamariki by health or via gateway assessment

-> NCPAS MDT -> alert

Used a cohort for children known to child protection services

Core preventative health care services

	National service/database	Details
Primary health care	National enrolment service	Free appointments for urgent and non-urgent health problems from 0-12 (if enrolled)
Universal health visits	Well Child/Tamariki Ora (WCTO)	Minimum of 12 free health care visits from 0-5
Immunisation	National Immunisation Registry	Free vaccines as per Schedule
Oral health	Community Oral Health Service	Free oral health care 0-18, first seen age 2 or earlier if identified as high risk by WCTO

Methods

Encrypted data

NCPAS alert as at 1st Jan 2017

Under 5 years of age

DOB, ethnicity, NZDep, DHB

PHO enrolment

WCTO enrolment

NIR enrolment and whether up to date at 8 months and 24 months

Community dental service enrolment and examination in 2016 for those >2yr
(Hutt Valley and CCDHB)

Pearson's Chi Square test
Post hoc analysis

Results

7185



- 73

Excluding those overseas as at 1st Jan 2017



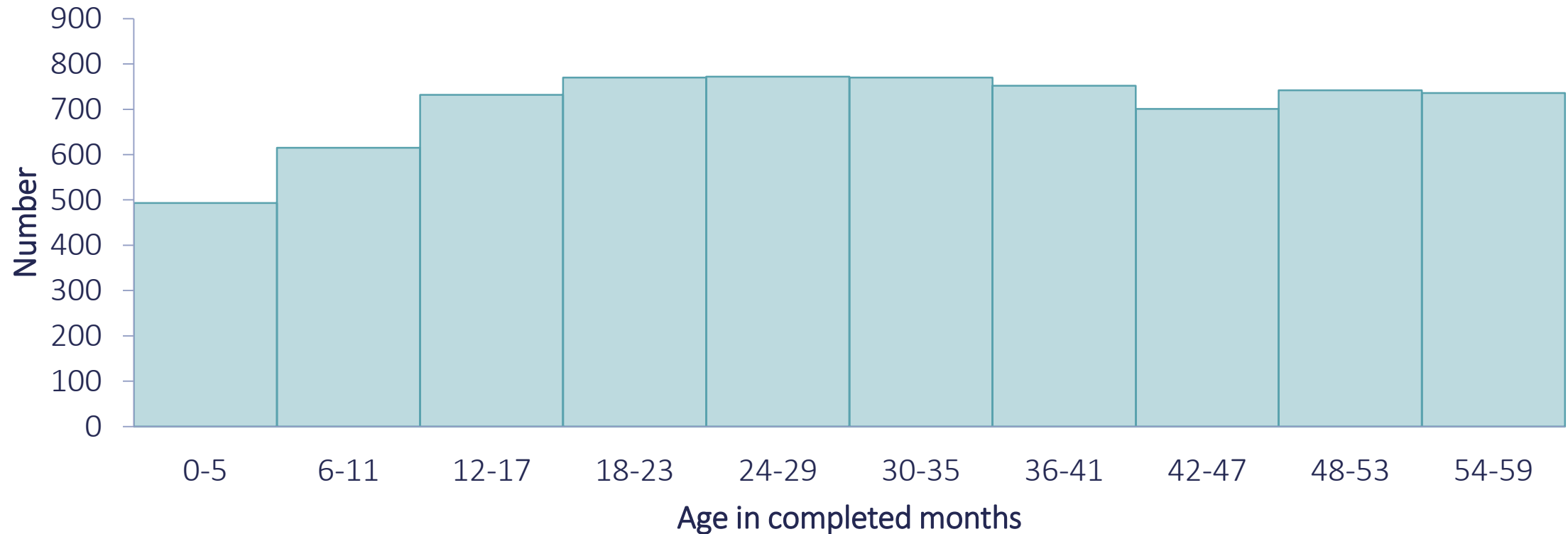
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Excluding those deceased as at 1st Jan 2017

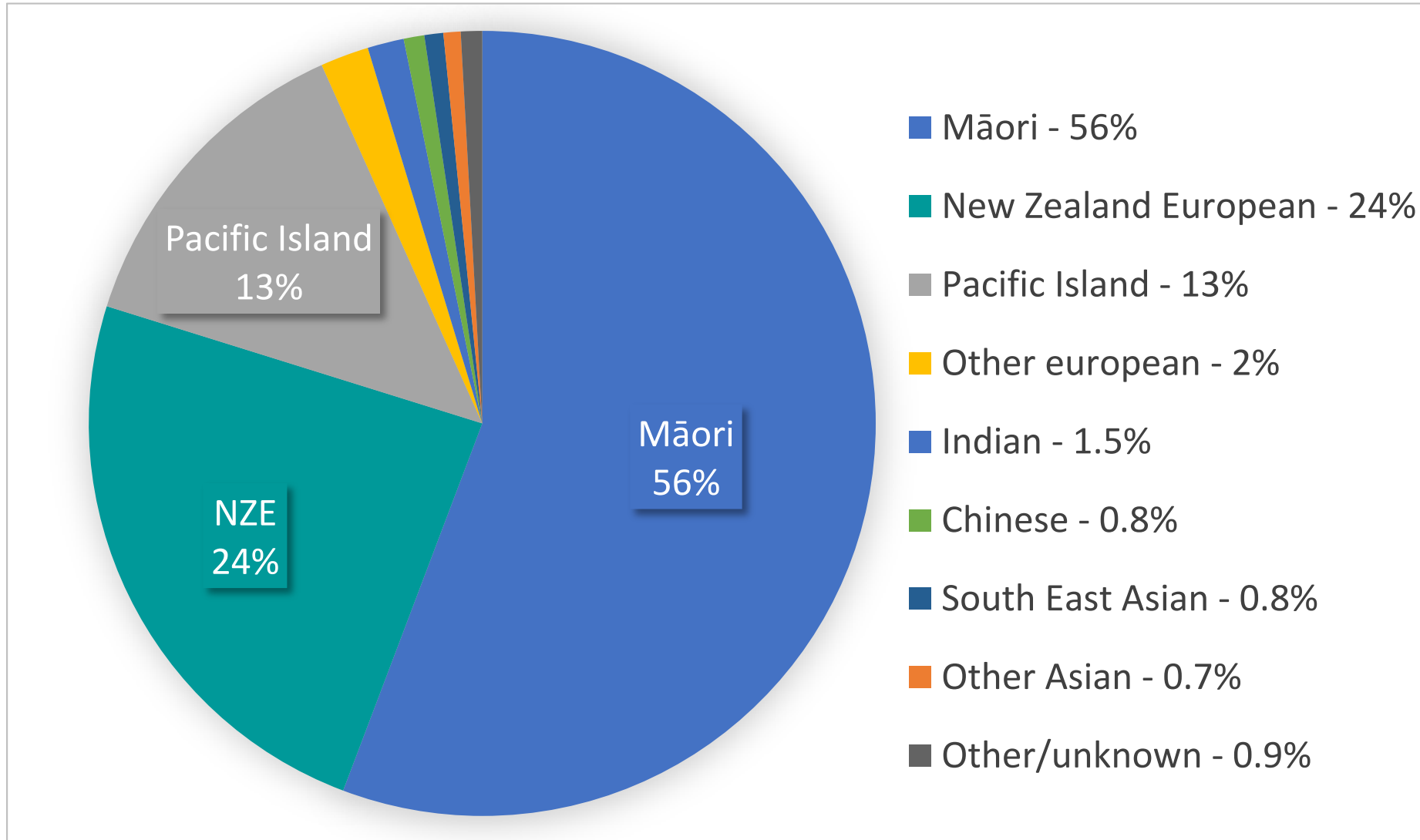
7083

Demographics

The number of children on NCPAS for age in completed month, as at 1st January 2017



Demographics



Demographics

Percentage of children in the NCPAS for each NZDep group



Primary health care

95.6% enrolled

Enrolment rates for <1 year of age = 90.1% $\chi^2(4) = 102.410, p < .001$

Māori	95.2%	OR 1.508 95% CI 1.105-2.087
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NZE	95.8%
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Pacific Island	96.8%	$\chi^2(2) = 7.081, p = 0.029$
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No statistically significant difference across NZ Dep

$\chi^2(4) = 4.515, p = .341$

Counties Manakau DHB 94.4% vs Canterbury DHB 97.8%

$\chi^2(19) = 36.138, p = .010$

Well Child/Tamariki Ora enrolment

95.5% enrolled

Enrolment rates for <1 year of age = 92.8% $\chi^2(4) = 28.676, p < .001$

No statistically significant difference between ethnic groups

$\chi^2(4) = 3.083, p = 0.214$

No statistically significant difference across NZ Dep

Northland DHB 89% vs Auckland DHB 97.7% $\chi^2(19) = 82.47, p = <0.001$

National Immunisation Registry

99.6% enrolled

Up to date	8 month milestone	24 month milestone
Total	85.2%	91.2%

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Up to date	8 month milestone	24 month milestone
Total	85.2%	91.2%
Māori	82.5%	90.2%
Pacific Island	89.1%	96.5%

Māori children less likely to be up to date with 8 months immunisation compared with NZ European children: OR 1.56 95% CI 1.302-1.872

Pacific Island children significantly more likely to be up to date at 24 months compared with NZM & NZE $\chi^2(2) = 22.675, p < .001$

National Immunisation Registry

99.6% enrolled

Up to date	8 month milestone	24 month milestone
Total	85.2% (92%)	91.2% (92%)
Māori	82.5% (89%)	90.2% (89%)
Pacific Island	89.1% (94%)	96.5% (95%)

Māori children less likely to be up to date with 8 moths immunisation compared with NZ European children: OR 1.56 95% CI 1.302-1.872

Pacific Island children significantly more likely to be up to date at 24 months compared with NZM & NZE $\chi^2(2) = 22.675, p < .001$

'Bee Healthy' Regional Dental Service

300 children from HVDHB and CCDHB on NCPAS

79% enrolled

41 children enrolled but now in different DHB's according to NHI

Māori 75%, NZE 81% and PI 88% – non significant

Examination in 2016 (aged 2-5) 37.8%

Comparison of rates of 51% for non NCPAS cohort

Which children are missing out?

17% of children on the NCPAS >8 months of age are either

Not enrolled with PHO

Not enrolled with WCTO **OR**

Not up to date with their immunisations at 8 months

= 1,310 children

If not enrolled with PHO, immunisation rates ↓75%

If not enrolled with WCTO, immunisation rates ↓74%

Conclusions

Enrolment rates high and comparable with national data

Enrolment only first step

Utilisation measures (immunisation and dental exam) lower

Dental data suggests that mobility a contributor

Disparities within this cohort for Māori

Lower enrolment at GP and lower immunisation rates

No significant differences by deprivation

Regional and age differences

Limitations

Descriptive cohort study

No comparative group

Utilisation only possible in 2/4 of the core preventative health care services

Regional data only for dental

Discussion

What is the impact of the established involvement of the health care system?

Snapshot in time

17% have at least one gap in preventative health care services

Further questions

National database capabilities

Application of unique NCPAS cohort

Is there a way within the NCPAS process to improve access to preventative health care services?

Under one's

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