

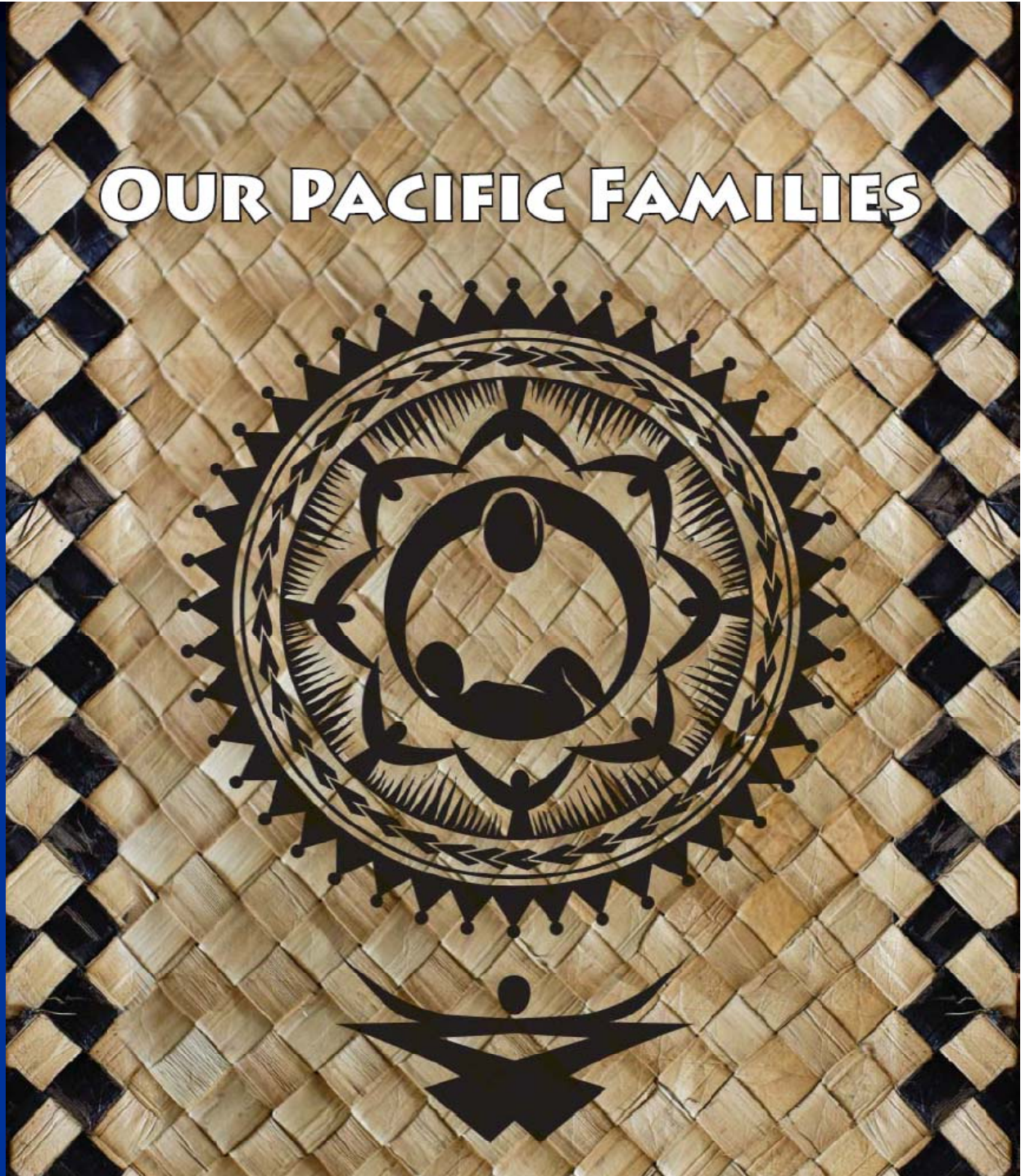


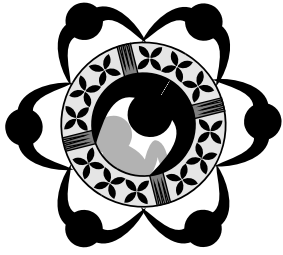
OUR PACIFIC FAMILIES

Pacific Islands Families Study (PIF)

Professor Janis Paterson

Gerhard Sundborn





Core PIF Research Team



Janis Paterson

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Max Abbott

Gerhard Sundborn

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Leon Iusitini

Jim Borrows

El-Shadan Tautolo, Mel Silulu, James Heimuli

Aims

- To determine optimum pathways for children and families during critical developmental periods.
- To make empirically based recommendations to promote the wellbeing of Pacific children and families

Need for the PIF Study

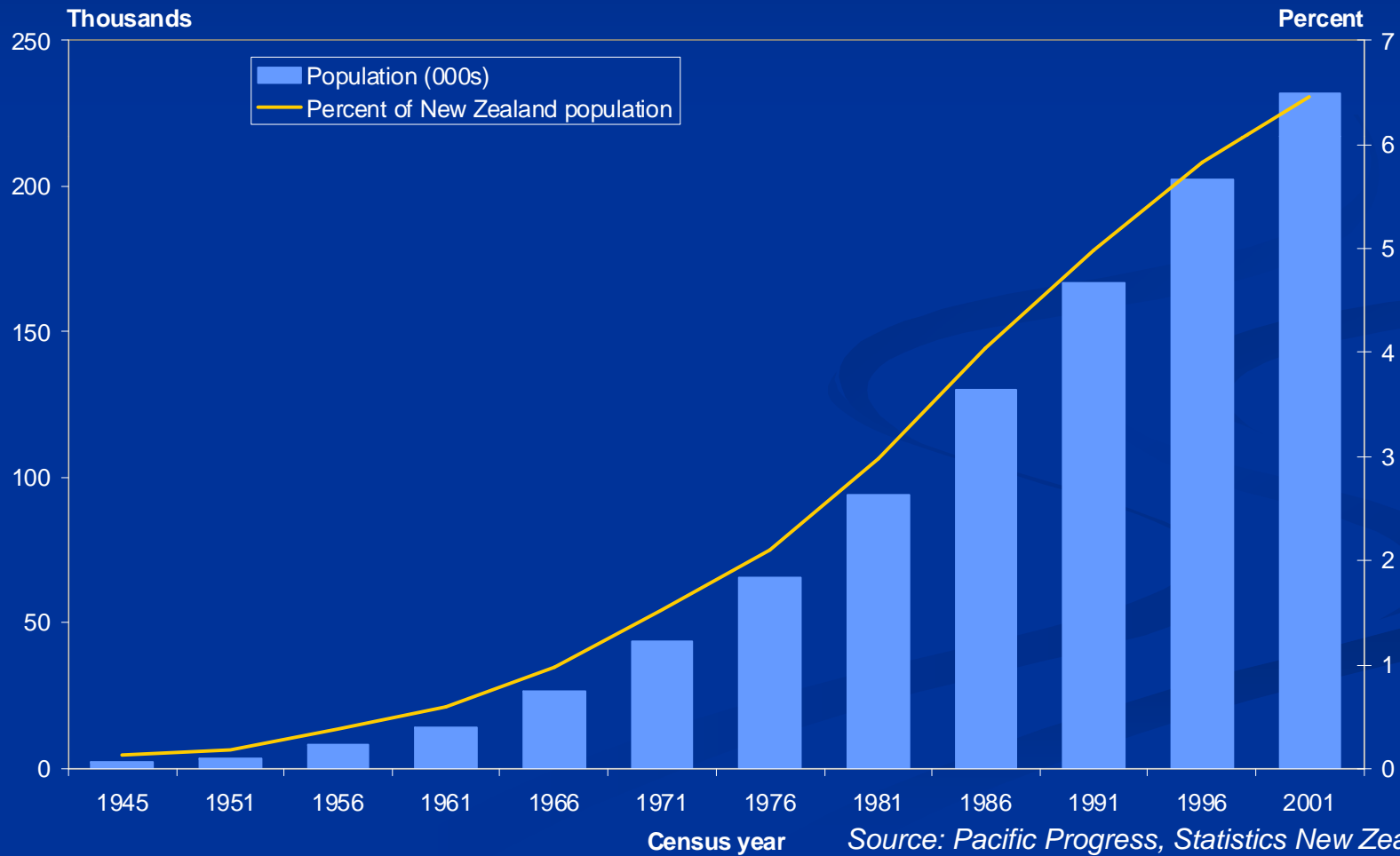
- No North Island longitudinal cohort Studies
- 20 Years on from the South Island Studies
- Pacific Demographic Imperatives
- Adverse social & health statistics

NZ Pacific population 265,974 (6.5%)

	NZ population	Island population
Samoa	131,100 (49%)	179,186
Cook Islands	58,011 (22%)	19,569
Tonga	50,478 (19%)	101,134
Niue	22,473 (8%)	1,625
Fiji	9,861 (4%)	827,900
Tokelau	6,819 (3%)	1,466
Tuvalu	2,625 (1%)	9,561

Imperative demographics

Growth of Pacific Population in New Zealand, 1945-2001





Oh NO!



Lack of Knowledge



c

Moral and Equality



Findings can then
inform Policy and
develop healthy
interventions.



What is the PIF ?

- Cohort of 1398 Pacific Babies born at Middlemore hospital in 2000.



6 weeks

1398



1 Year

1224



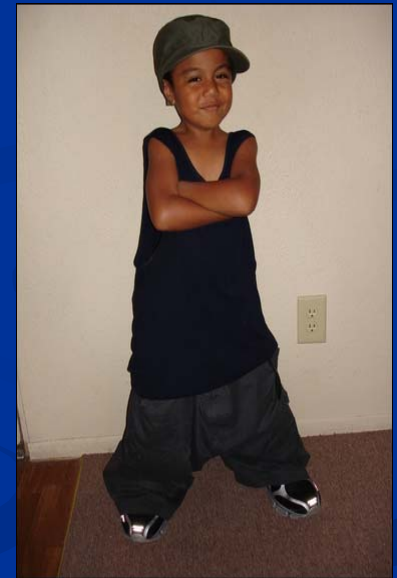
2 Year

1144



4 Year

1048



6 Year

1015

Details of cohort mothers

- Samoan 47.2%, Tongan 21%,
Cook Islands 16.9%, Niuean 4.3%,
Other Pacific 3.4%, Non-Pacific 7.2%
- Mean age: 27 years
- Married or de facto partnerships: 81%
- New Zealand born: 33%
- Had post school qualifications: 27%

When was Information gathered?



Mother



Child



Father



Teacher

6 week	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1 year	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2 year	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4 year	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6 year	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

When was Information gathered?



Mother



Child



Father

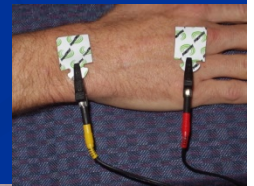


Teacher


6 week	■	■		
1 year	■	■	■	
2 year	■	■	■	
4 year	■	■		
6 year	■	■	■	■
9 year	■	■		
11 year	■	■		

PIF Core Focus

- Demographics
- Child Development
- Parenting and home environment
- School environment & Community environment
- Peer relationships
- Child and family health
- Family Finances
- Cultural Aspects
- Child behaviour
- Partner Relationships



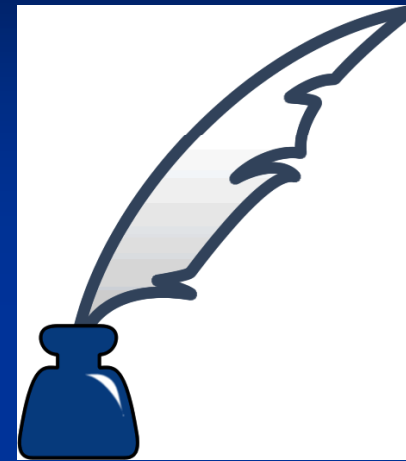
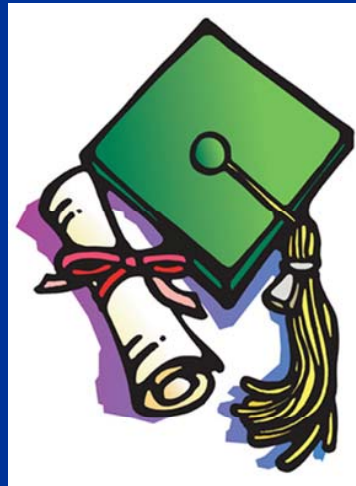
Where we are **Now** ?

-  Re-funded by FRST for 9 and 11 year phase:
- Prepare for a new phase of Data collection:
- Write up data from 6 year phase.



OUTCOMES

- Peer reviewed Publications



- Masters Student Graduands

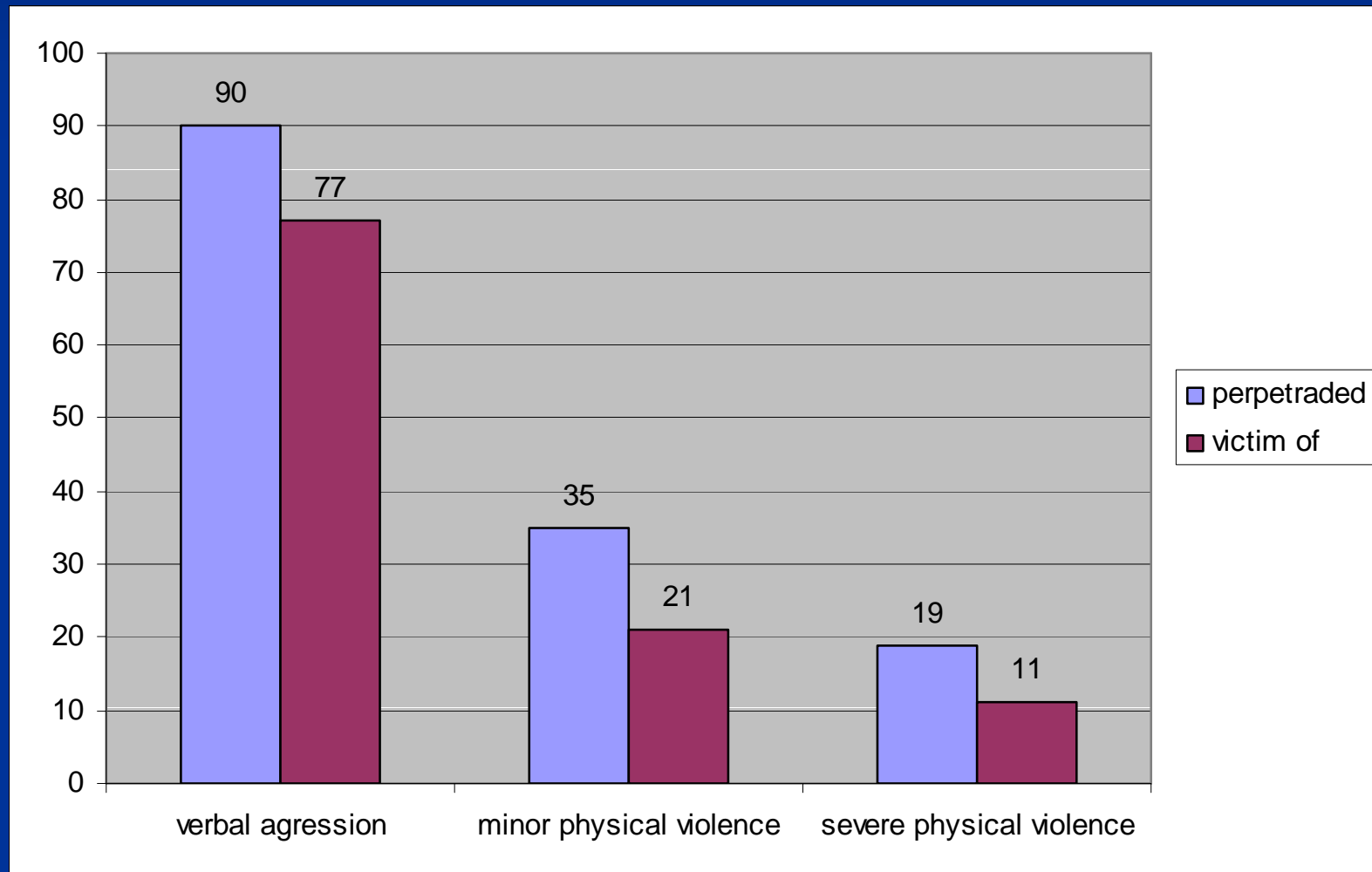
- Pacific capacity

HEALTH ISSUE	AGE
Intimate Partner Violence	0
Low Birth weight (pacific measure)	0
Post natal depression	0
Maternal Smoking	0, 1
Pacific Fathering Practices (nurturance & discipline)	1
Disciplining of Children (smacking)	1, 2, 4
Oral Health (outcomes & practices)	2, 4
Obesity rates at 6 years	6
Growth Patterns	2,4
Acculturation and Health	6

Intimate Partner Violence

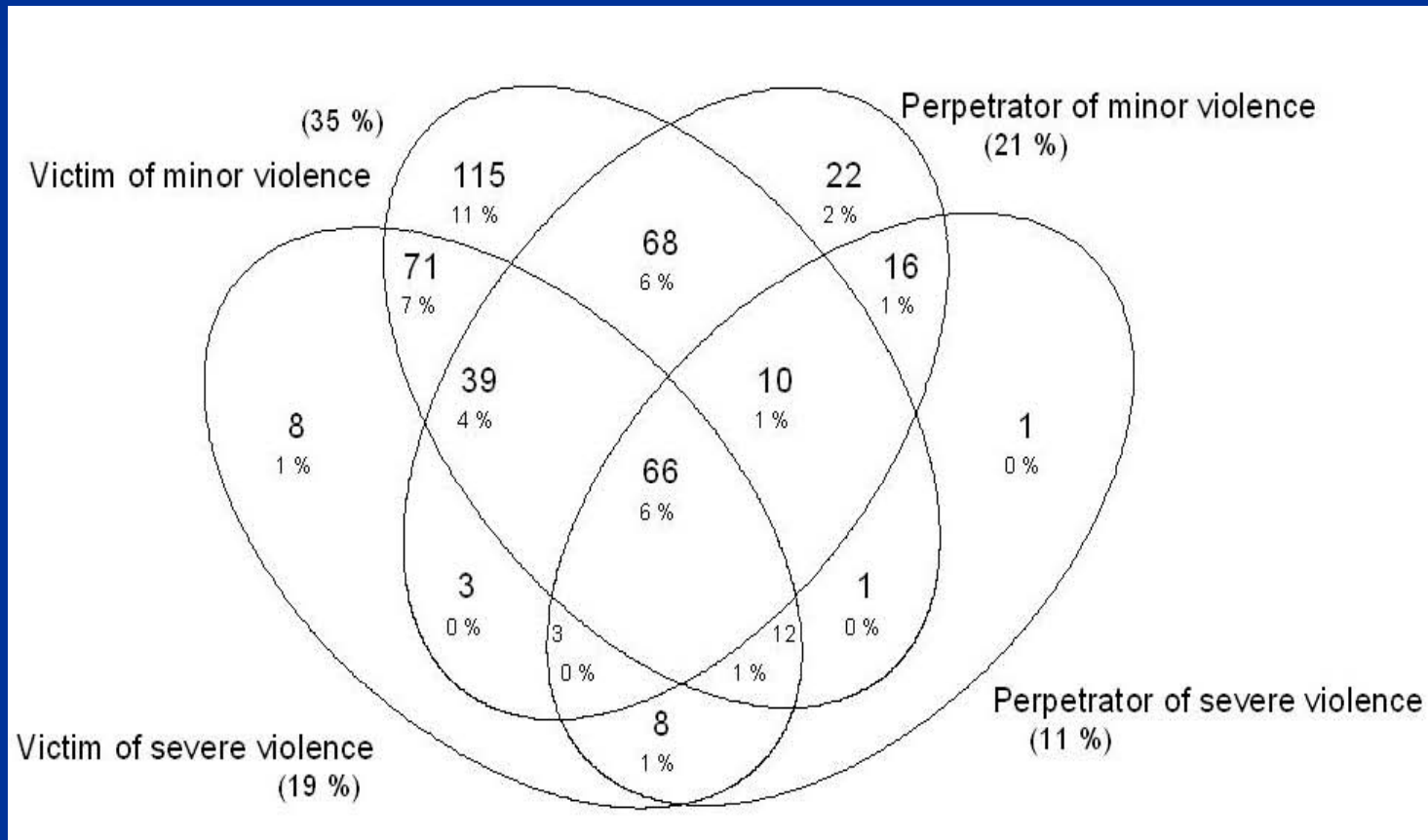
Specific Questions to Mothers:

- What are the victimisation & perpetration rates?
- What factors are associated with victimization and perpetration?



High degree of:

- Overlap between victimisation – perpetration
- Overlap of the different forms of violence



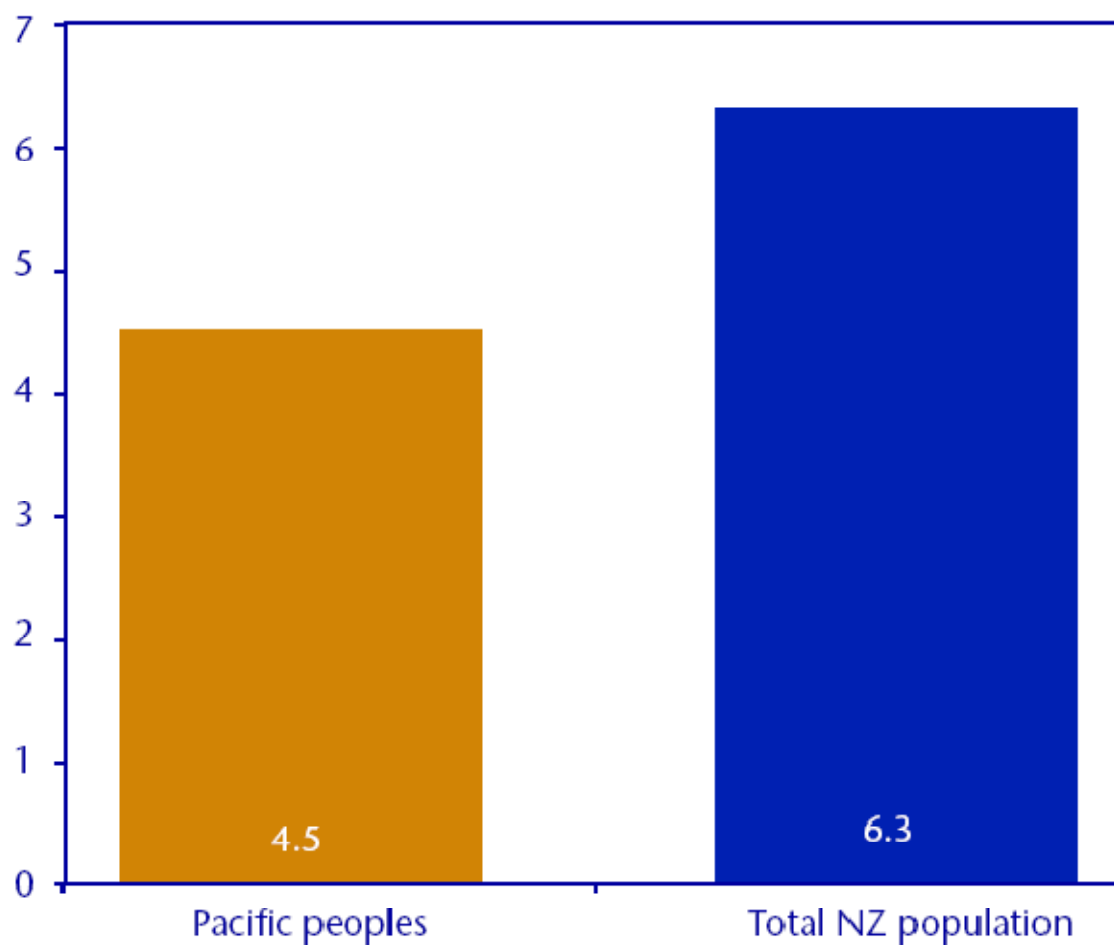
Stepwise multiple regression showed that there is an **INCREASED RISK** of **severe violence victimisation** and **SIGNIFICANT ASSOCIATION** with **perpetration** among respondents with*:

VICTIMISATION	PERPETRATION
No formal education	High NZ OR Low Pacific cultural alignment
Non-married status	Being New Zealand born
Low household income	Alcohol consumption since birth of the child

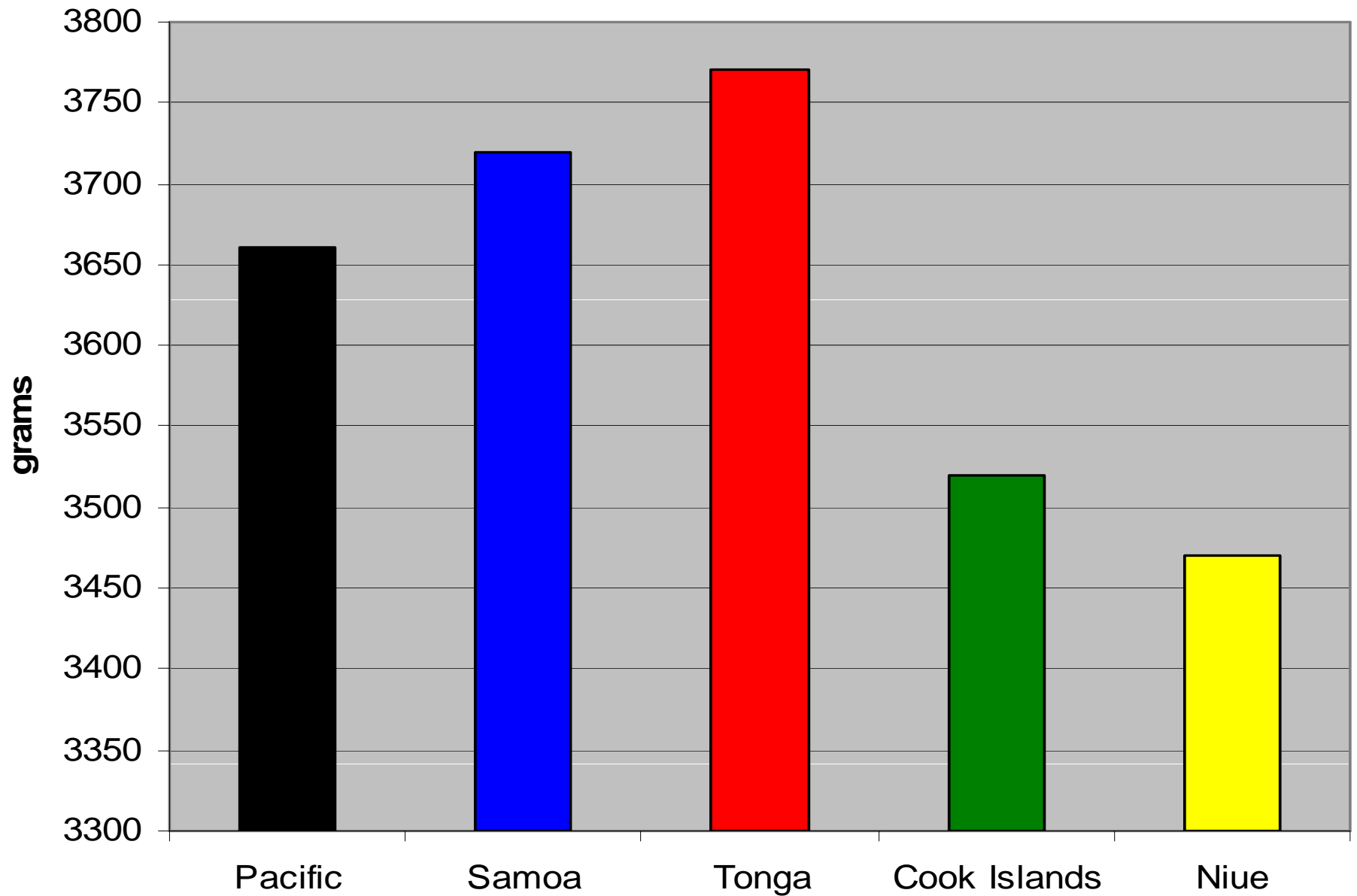
Low Birth-weight

Figure 18: Rate of low birthweight, sexes pooled, 2001

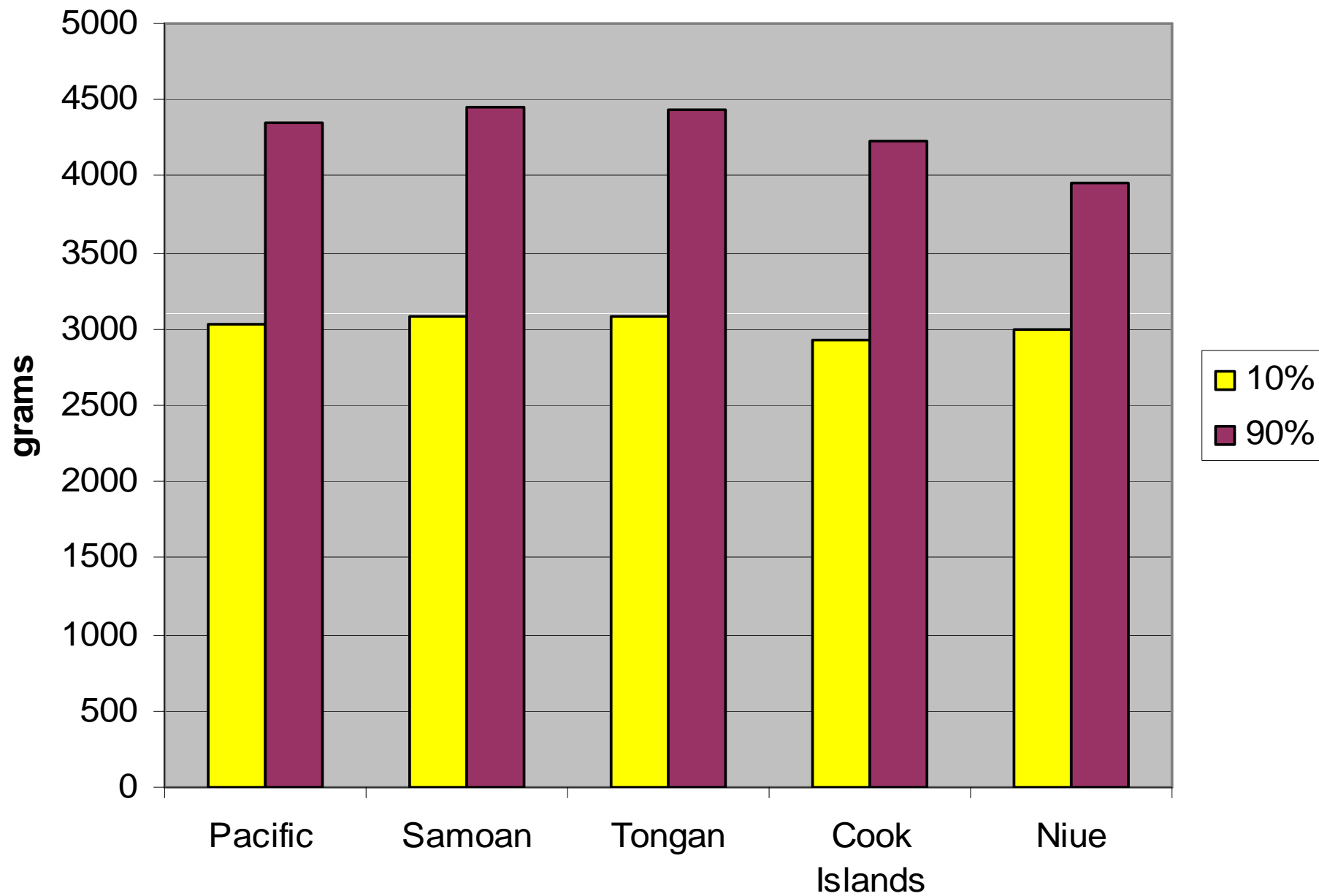
Rate per 100 singleton
live births



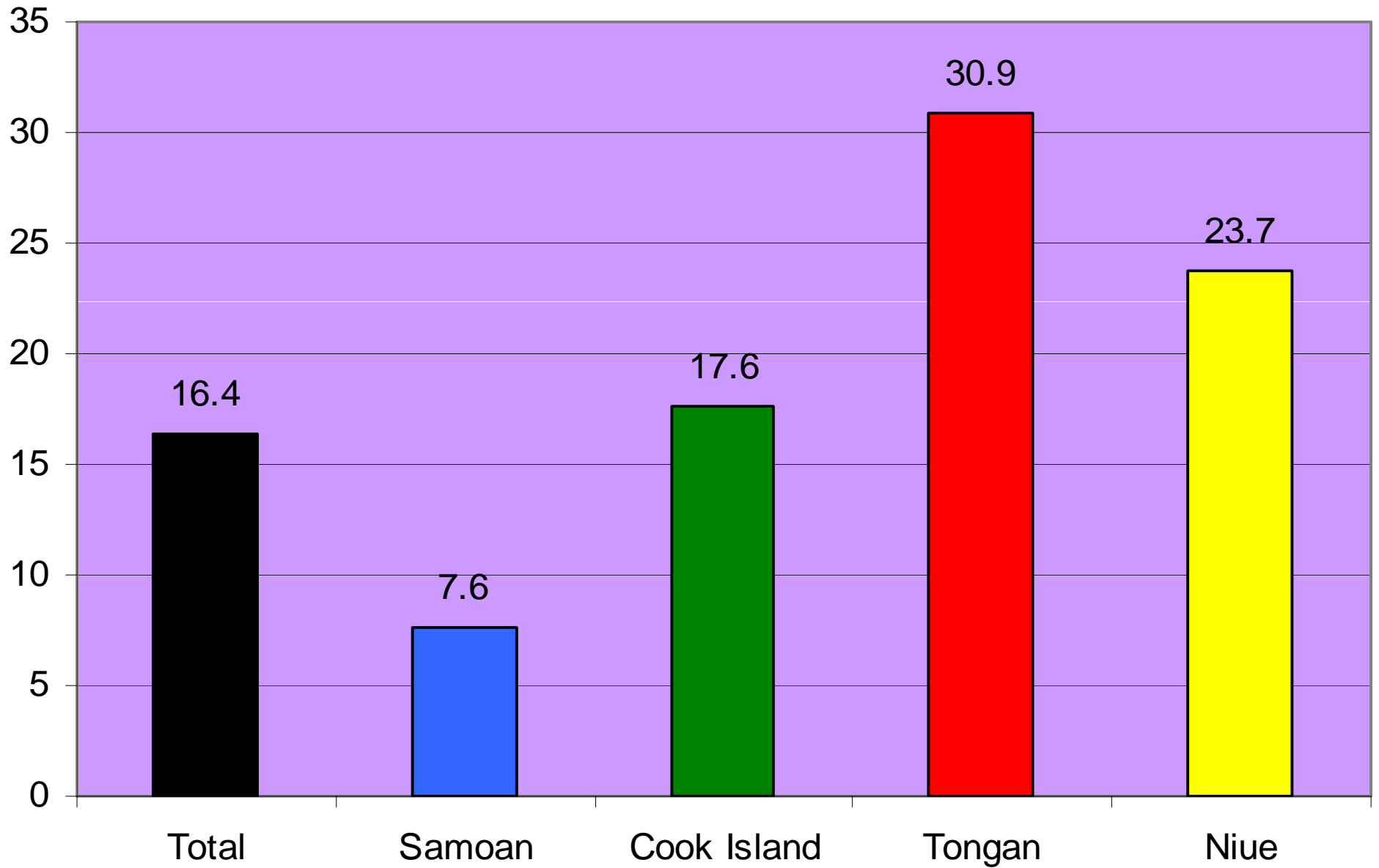
Average Birth-weight



Our Def of LBW (10th p-tile) and HBW (90th p-tile)



Possible Postnatal Depression



Prevalence

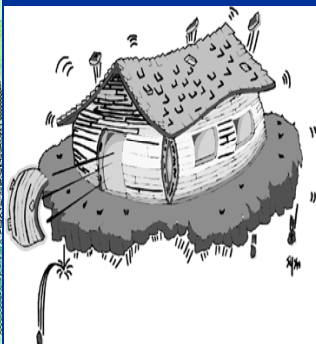
- Were generally at the HIGH range with Samoan being lower and Tongan considerably higher

Risk factors

- Were generally similar to those previously identified in previous research



Pregnancy/birth experience

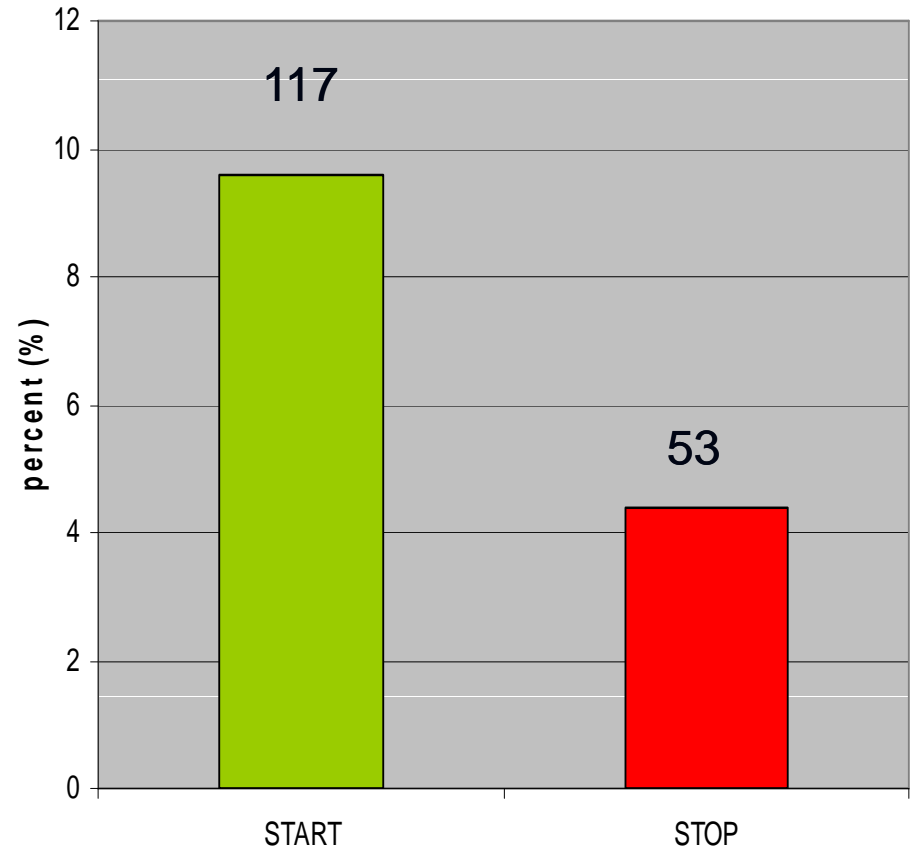
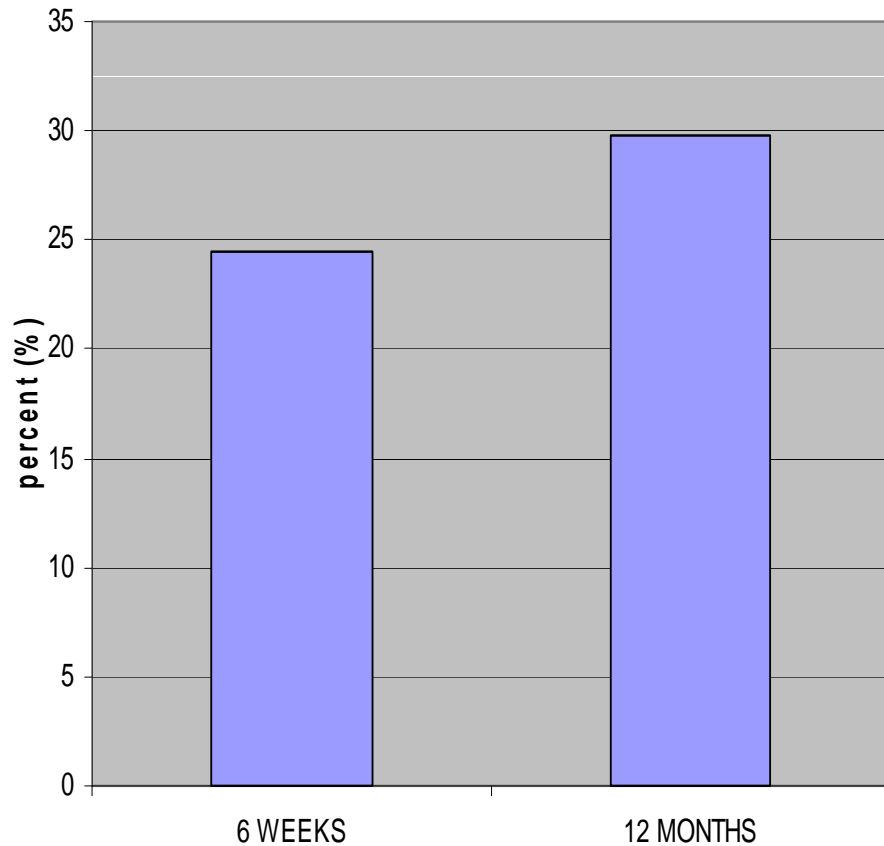


acculturation



Mothers smoking at 6wks & 12 months

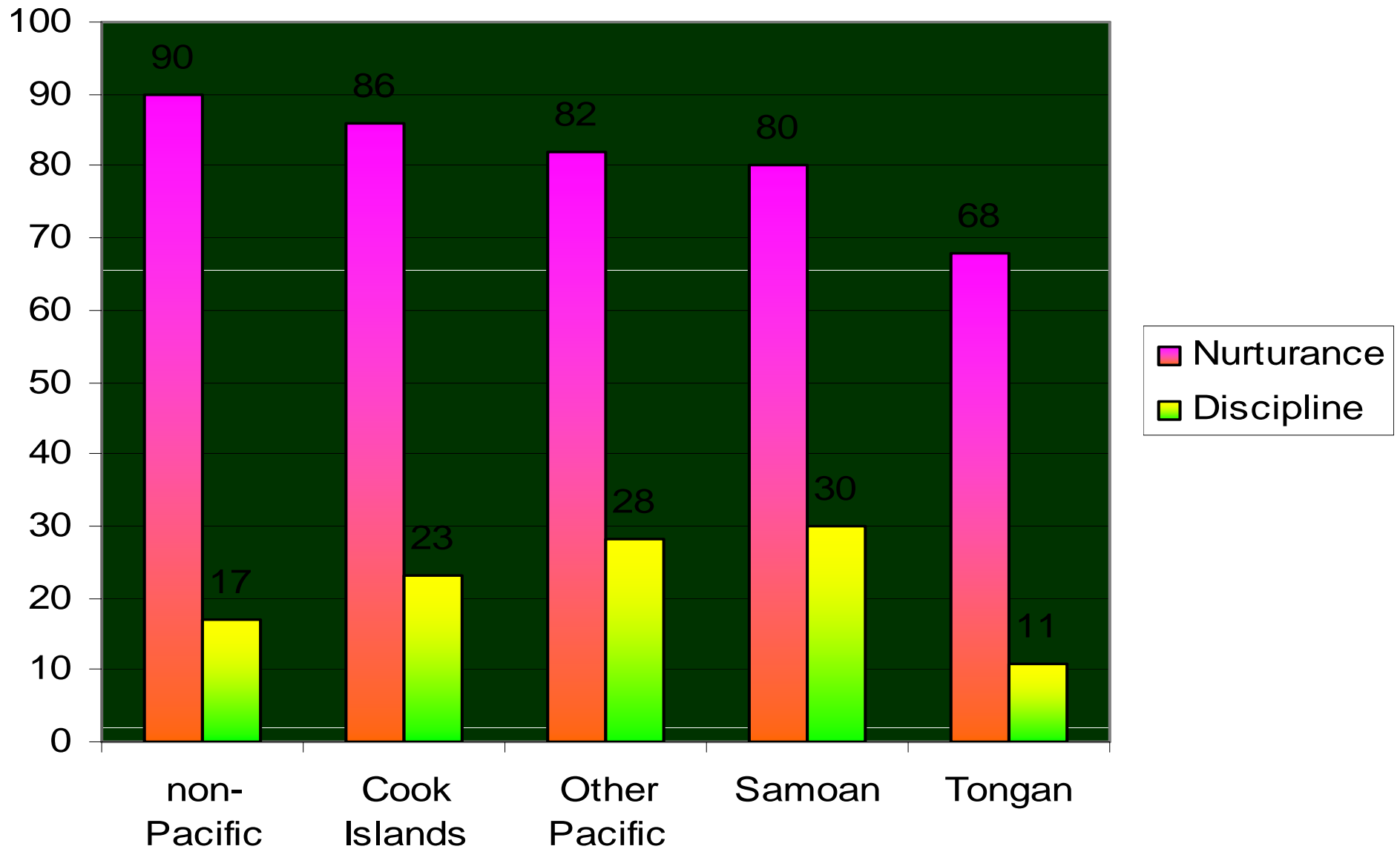
(%) started / stopped between 6wks & 12 months



Associations with smoking

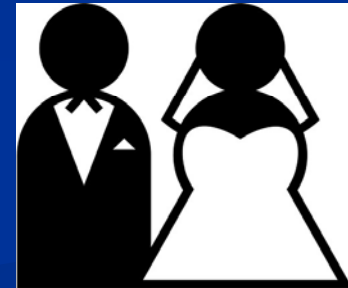
- **Age** (older mothers less likely)
- **Married mothers** (4 X less likely)
- **Island born** (2 x less likely)
- **Niue, Cook Islands** (2 x more likely than Samoans)
- **Living with other smokers** (4.6 x more likely)
- **Fluency in English** (4 x more likely)
- **Acculturation characteristics**

Proportion in Upper $\frac{3}{4}$ -ile for Nurturance & Upper $\frac{1}{4}$ -ile for Discipline



Pacific Fathering Practices

Positive association with Nurture:



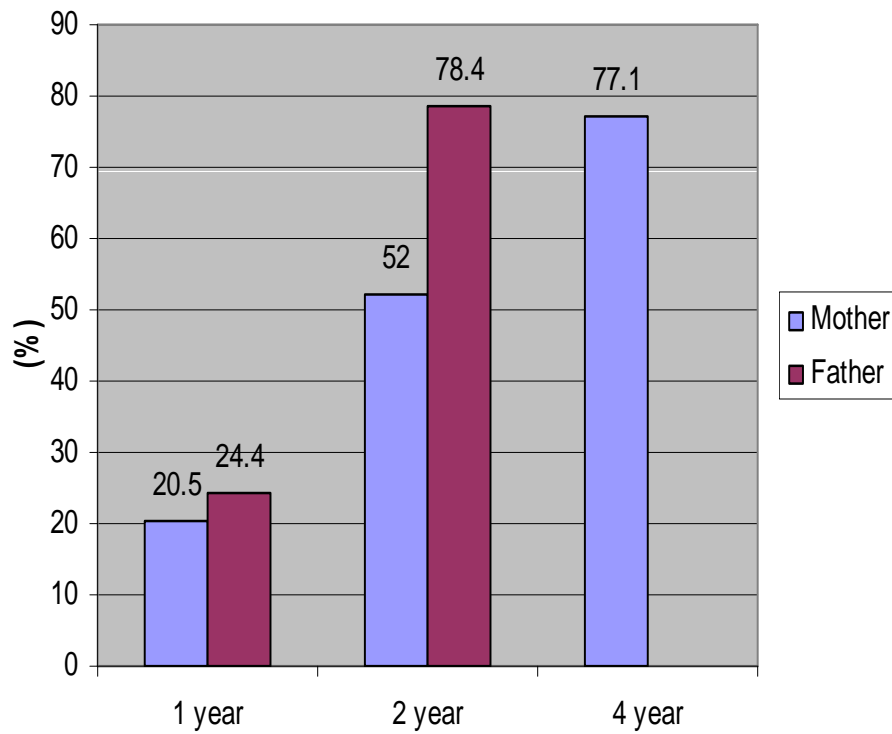
Time lived in NZ

Employment !

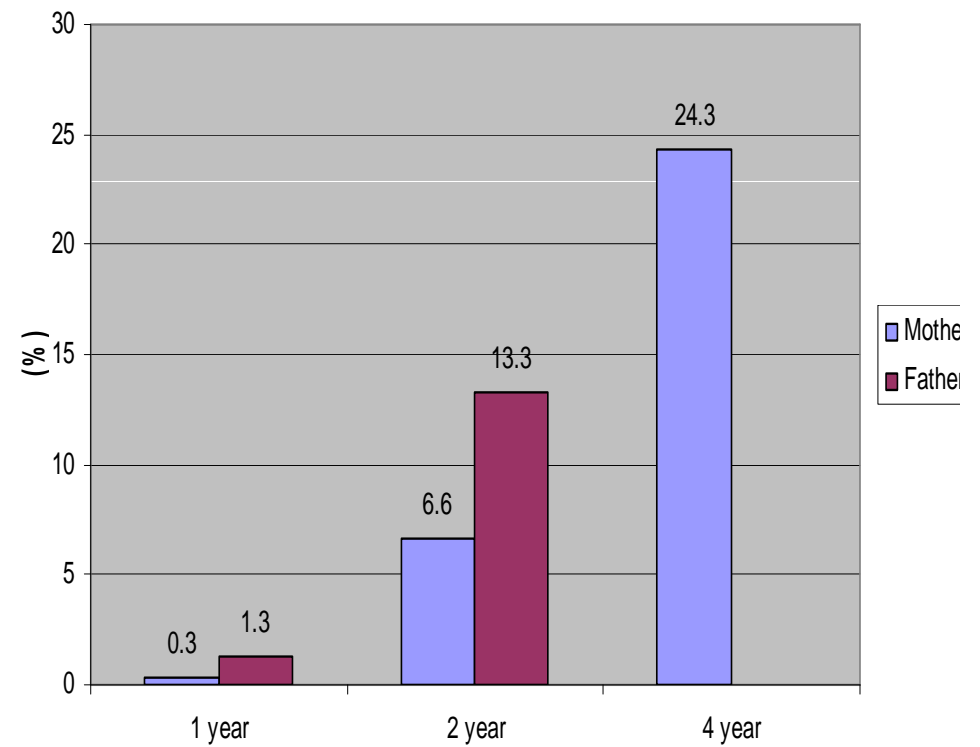
Assimilators (↓Pac ↑ NZ)

Smacking & Hitting

Smacking of Children



Hitting with an object



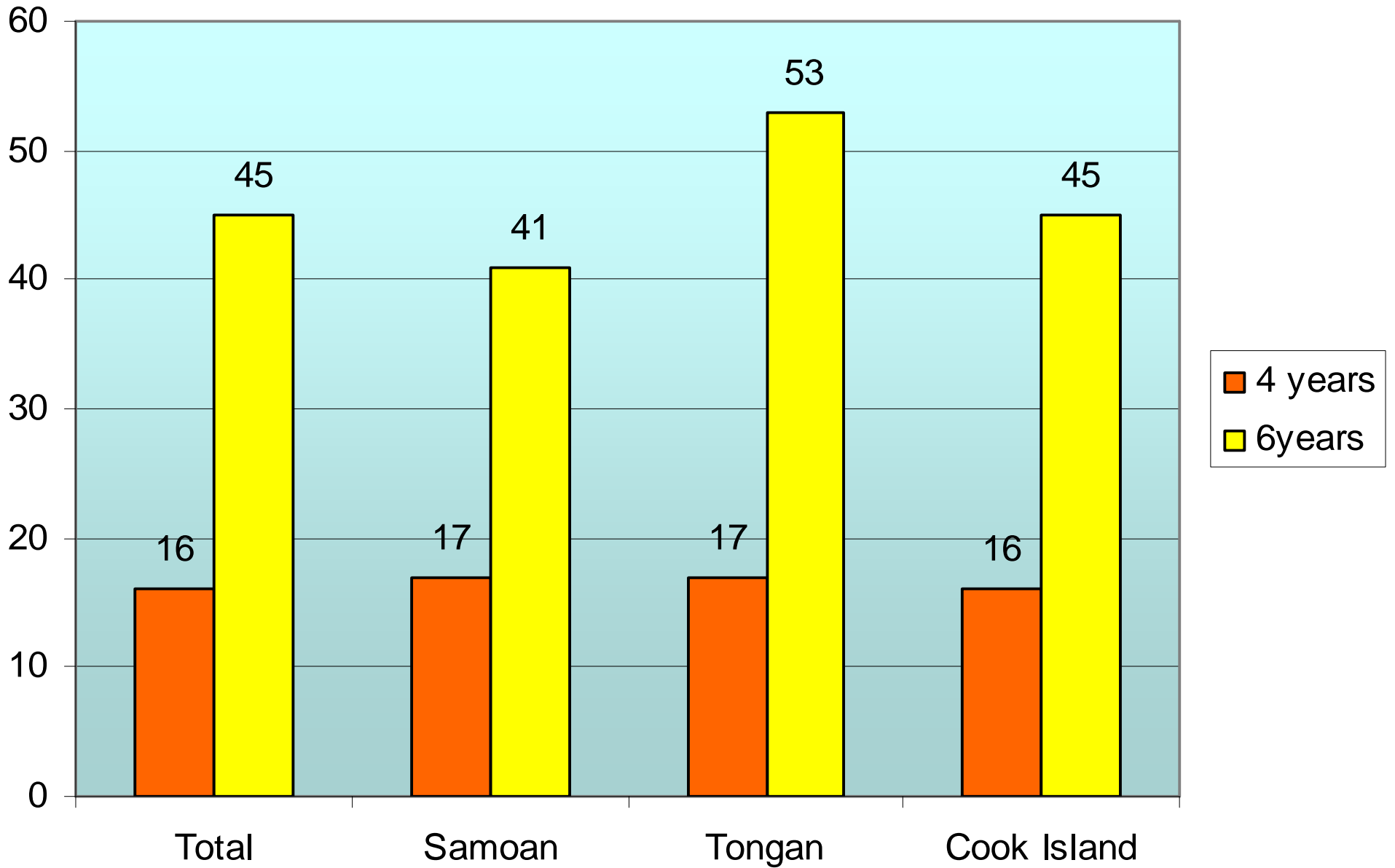
Key Findings

- Smacking prevalence were comparable to general NZ population rates
(did not support view that pacific were more or less likely to smack)
- Fathers administered harsher punishment than mothers and that there was poor agreement/concordance between them
- If hitting with an object constitutes a consequential assault in the newly ratified *Crimes Act 2007* then many parents within this cohort and most probably in NZ are in breach of this law

Oral Health in 4 & 6 year olds



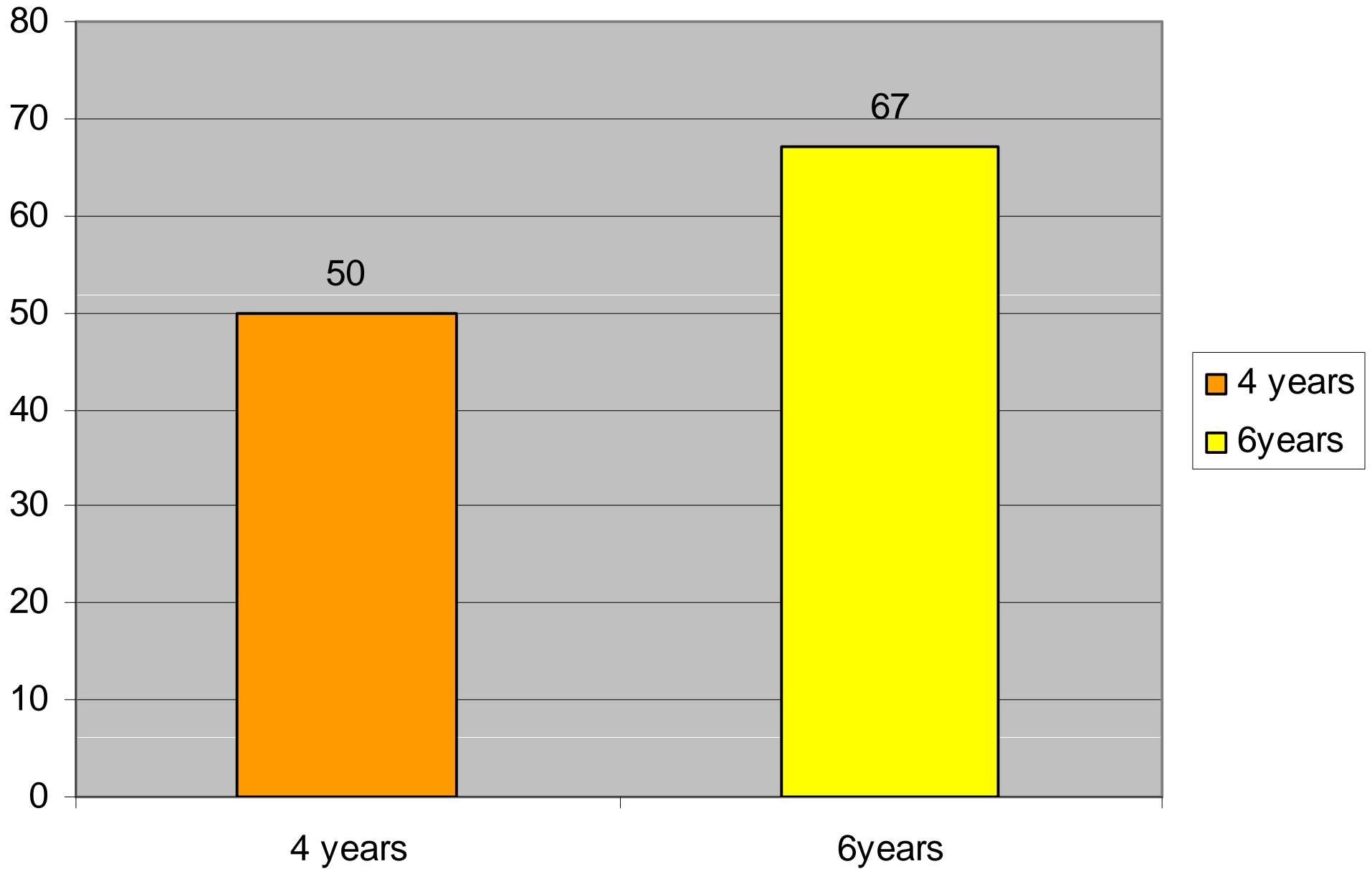
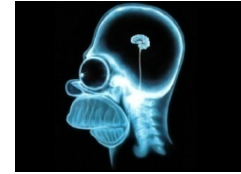
Fillings or extractions



ASSOCIATIONS



Mother not visited dentist in past 5 years



Findings

- At 6 years Tongan Children had poorer oral health
- Poor access of Pacific Mothers to dental health.
- Longer Breastfeeding → poorer child oral health !

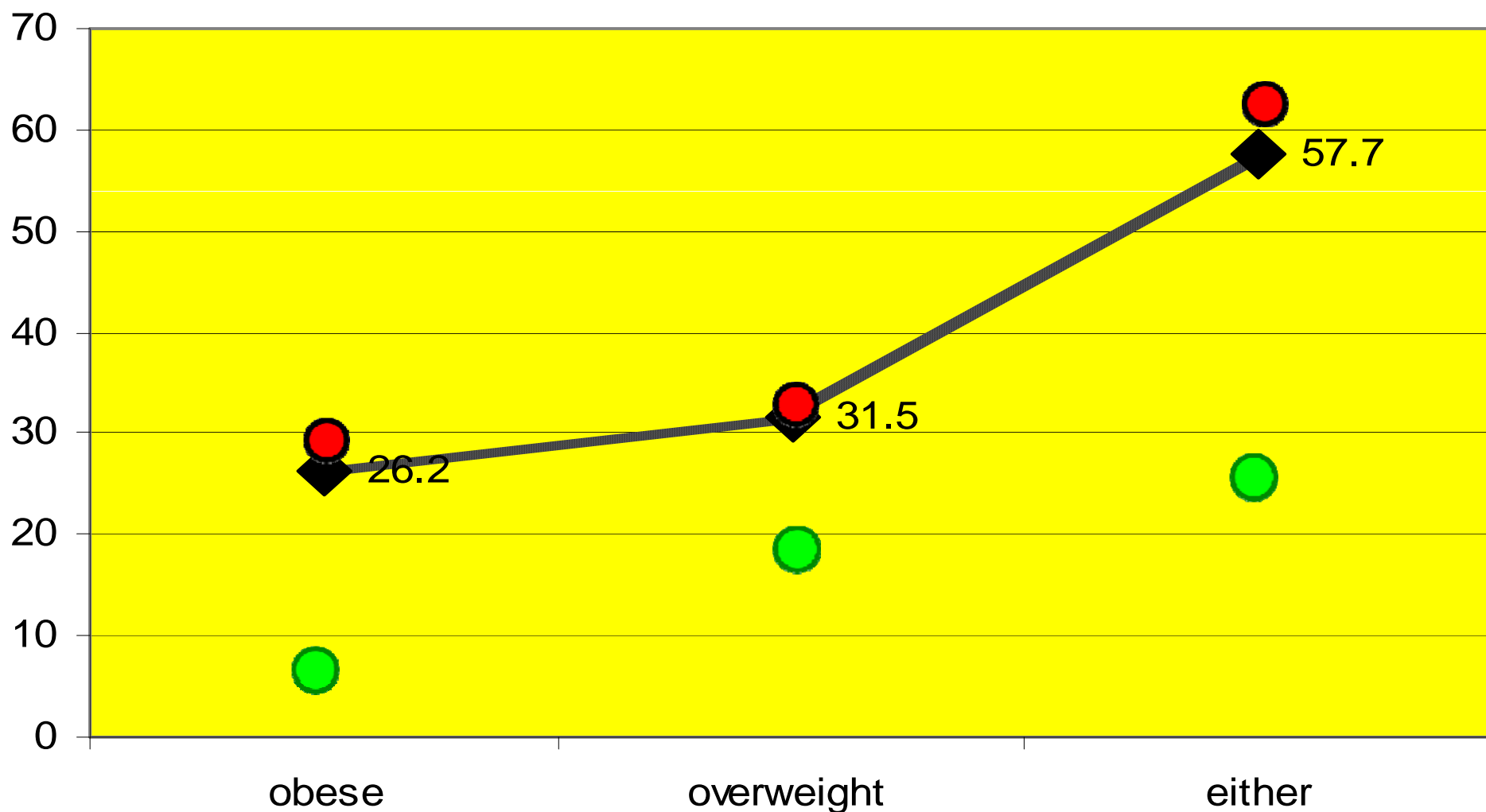
■ Children have: ↑ Brushing

↓ Snacking before bed

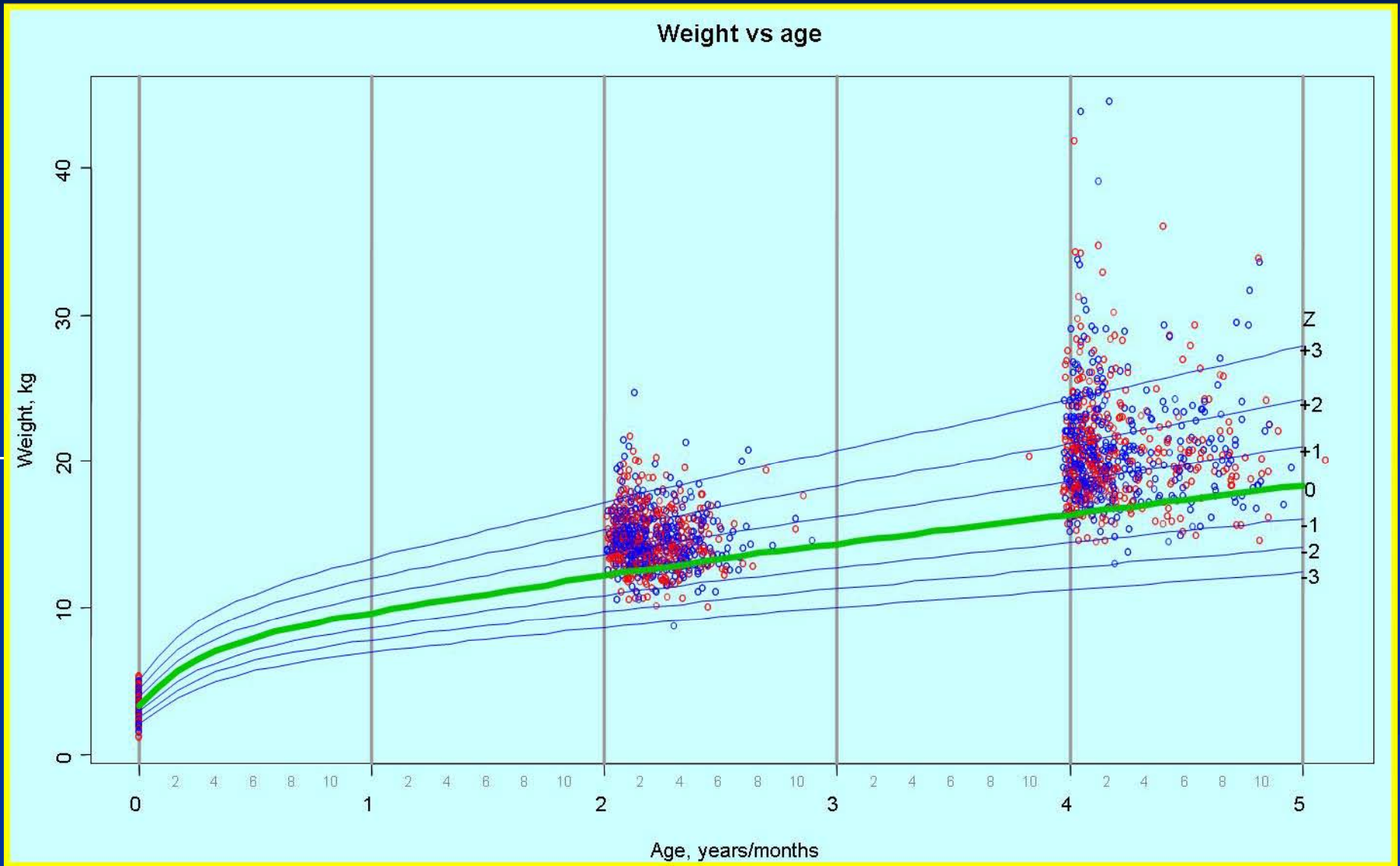
↑ Supervised brushing

Anthropometry

Proportion of 6 year olds Overweight and Obese
(adjusted for sex)








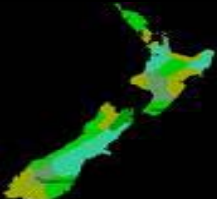



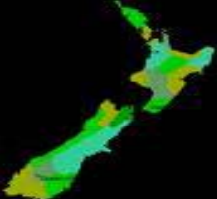





Weight for age



Acculturation:

Acculturation is, culture change that is initiated by the conjunction of two or more autonomous culture systems

Cultural Type	Description	
Separator	 	 
Integrator	 	 
Marginal	 	 
Assimilator	 	

Maternal	Infant
Unplanned Pregnancy	Small for Gestational Age
Single Parent	Hospital Admission
Perpetration of IPV	Not immunised
Depression	Not Exclusively Breastfed
Gestational Smoking	-
Gestational Alcohol	-

Acculturation:

Cultural Type	Odds Ratio
Separator (↑Pacific ↓New Zealand)	1.00
Integrator (↑Pacific ↑New Zealand)	1.53
Marginal (↓Pacific ↓New Zealand)	1.84
Assimilator (↓Pacific ↑New Zealand)	2.03

Acculturation:

Strong alignment to Pacific culture =
Positive effect on Maternal and Infant health
outcomes

Separator – Best outcomes

Integrator – Reasonable

Marginal & Assimilator – Poor

www.aut-pif.ac.nz

Malo 'aupito