

Only just skin deep

Protecting the extreme preterm infant

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Viability

Scientific
Progress

Resources

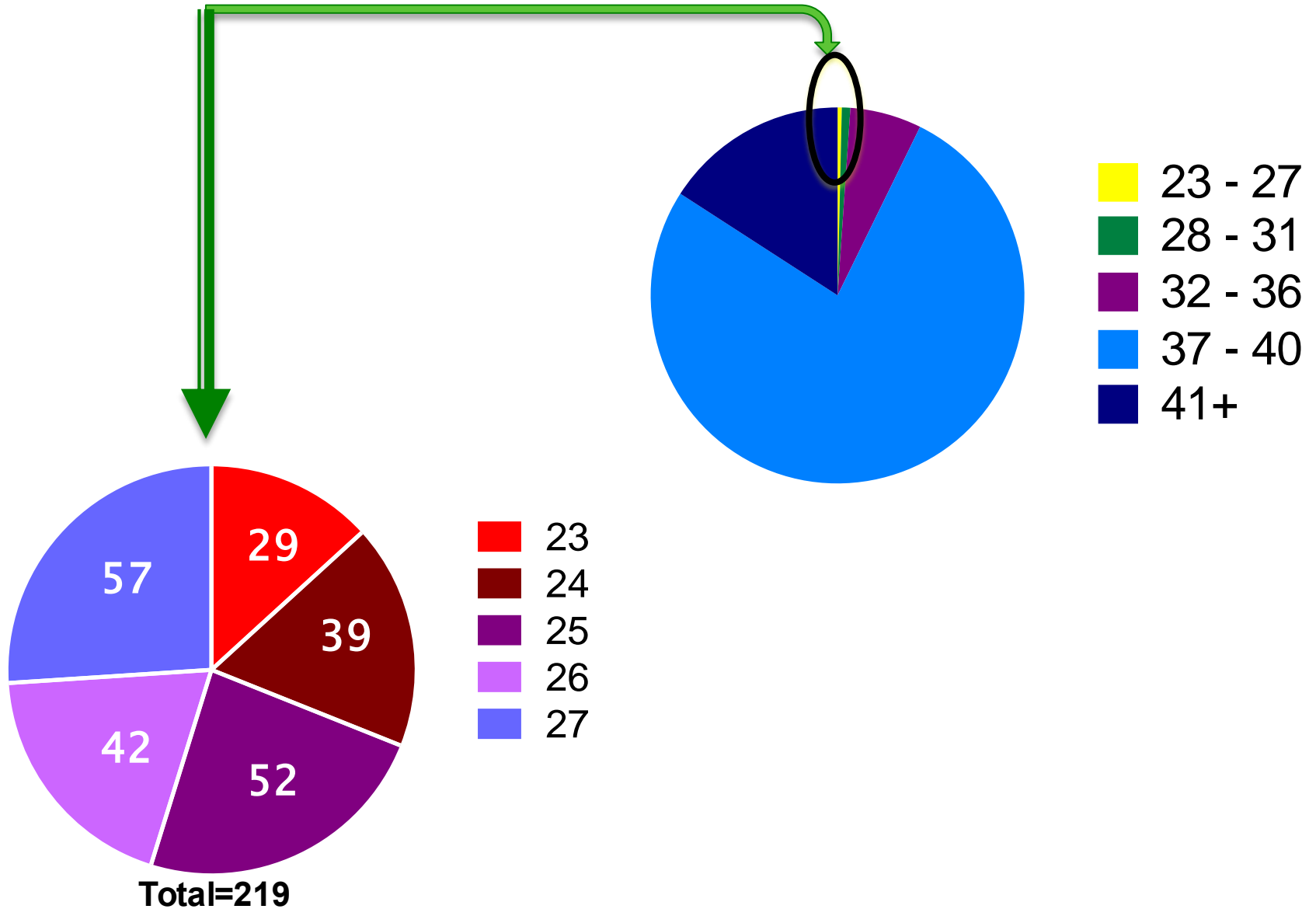


Parents
Whanau

Outcomes

How many babies?

NZ live births 2013 ($n \approx 60,000$)



Wellington NICU—Sharing our Story



Just because we can....
does that mean we should?



Sharing our Story

Resuscitation of 23 and 24 week infants

- ▶ Should we?
- ▶ How do we?
- ▶ What is our role as neonatal nurses?



Sharing our Story

Resuscitation of 23 and 24 week infants

Should we?

What evidence
do we have?



Survival and outcomes for 10 year
period audited

Results

104 mothers

118 neonates

23 weeks GA	17 neonates excluded	24 weeks GA
2	Congenital abnormality	5
7	No resuscitation	3

101 neonates eligible

40 infants at 23 weeks
(25 males, 15 females)

61 infants at 24 weeks
(36 males, 25 females)

40 infants at 23 weeks

36 admitted to NICU

23 (58%) survived to discharge home

61 infants at 24 weeks

60 admitted to NICU

41 (67%) survived to discharge home

23 weeks GA

Significant morbidity

24 weeks GA

2/23 (9%)

IVH \geq Grade 3 or PVL

2/41 (5%)

4/23 (18%)

ROP \geq Grade 3

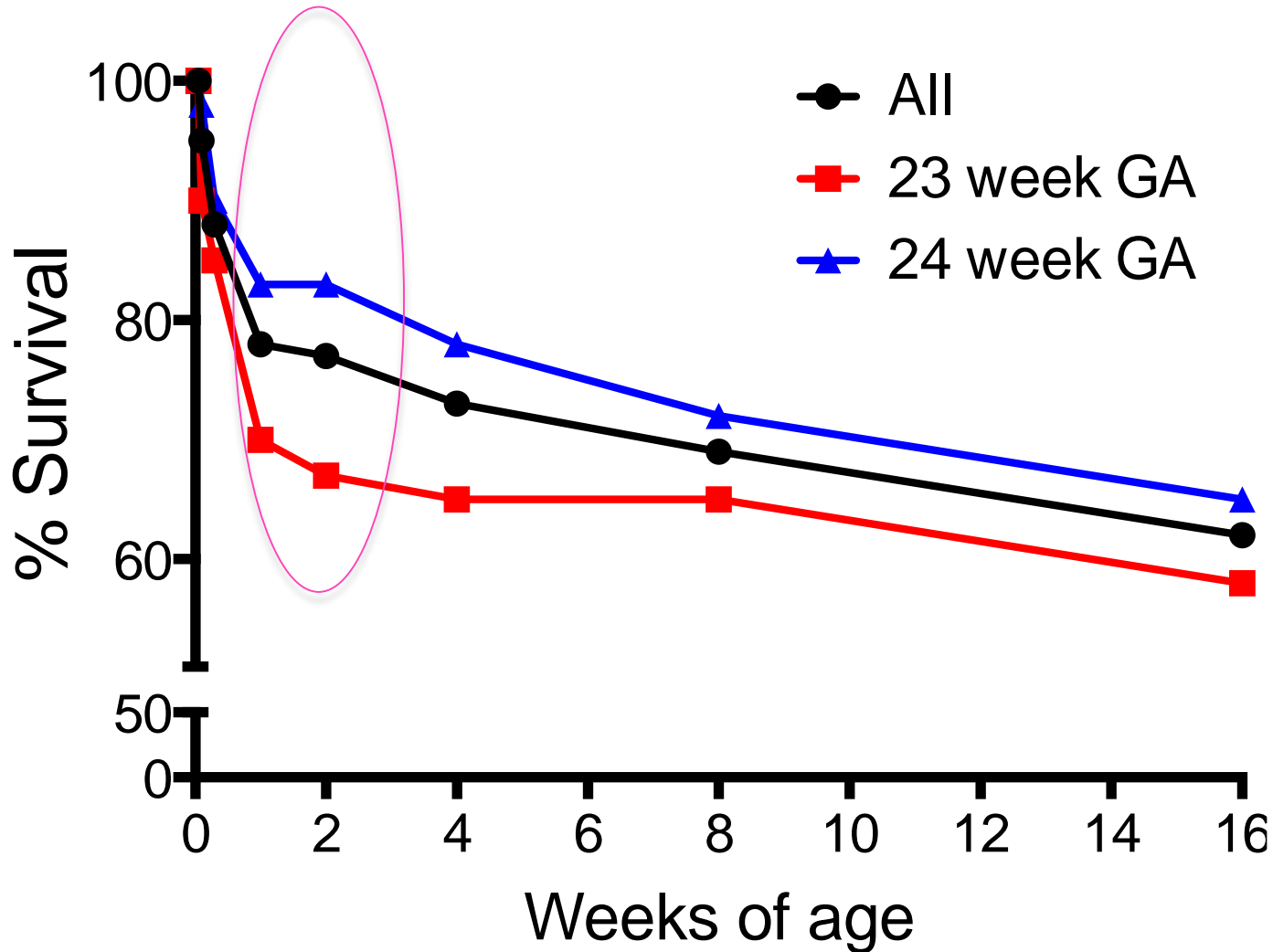
6/41 (15%)

11/23 (48%)

Home oxygen

14/41 (35%)

Birth to Discharge: Survival by gestation





24/40, now at 15 years old an award winning student, cyclist, and all round Kiwi girl!



Sharing our Story

Resuscitation of 23 and 24 week infants

▶ Should we? **YES**

▶ How do we?

▶ What is our role as neonatal nurses?



Sharing our Story

Resuscitation of 23 and 24 week infants

▶ Should we?

▶ How do we?

▶ What is our role as neonatal nurses?





Obstetricians
Neonatologists
Paediatric
Surgeons



Paediatric
Radiologists

Scientists
Allied health

Family Whanau
Community



Neonatal Nurses



Sharing our Story—How

- ▶ In-born if possible
- ▶ MDT planning PRIOR to birth
- ▶ Ante-natal steroids & MgSo4
- ▶ Counselling; local data, individualised, dynamic & responsive to the needs of mother & baby
- ▶ Mode of delivery...?
- ▶ ‘Responsible’ resuscitation
- ▶ NICU: Ongoing dialogue



Sharing our Story

Resuscitation of 23 and 24 week infants

▶ Should we?

▶ How do we?

▶ What is our role as neonatal nurses?



Palliation vs no resuscitation



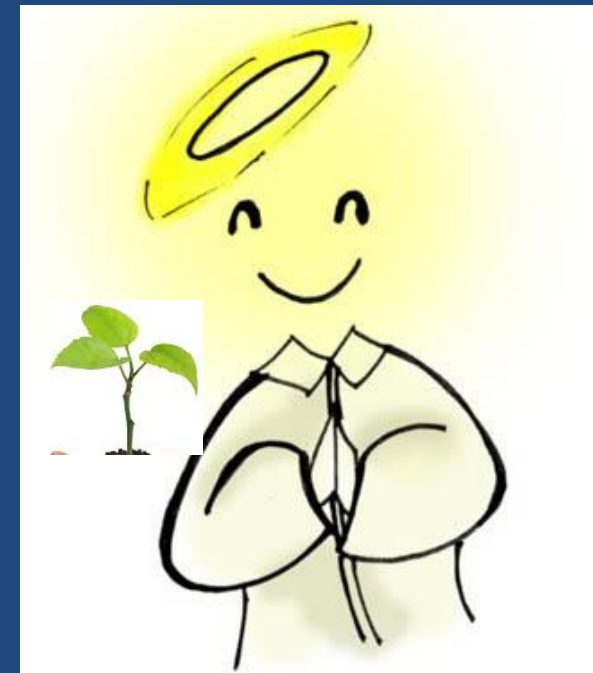
Neonatal Nurses

- ▶ SCBU and NICU nurses are a rare and special breed!
- ▶ Vigilant to needs to baby, parents
- ▶ Eyes and ears of the multi-disciplinary team



Role of the neonatal nurse: Improving Outcomes

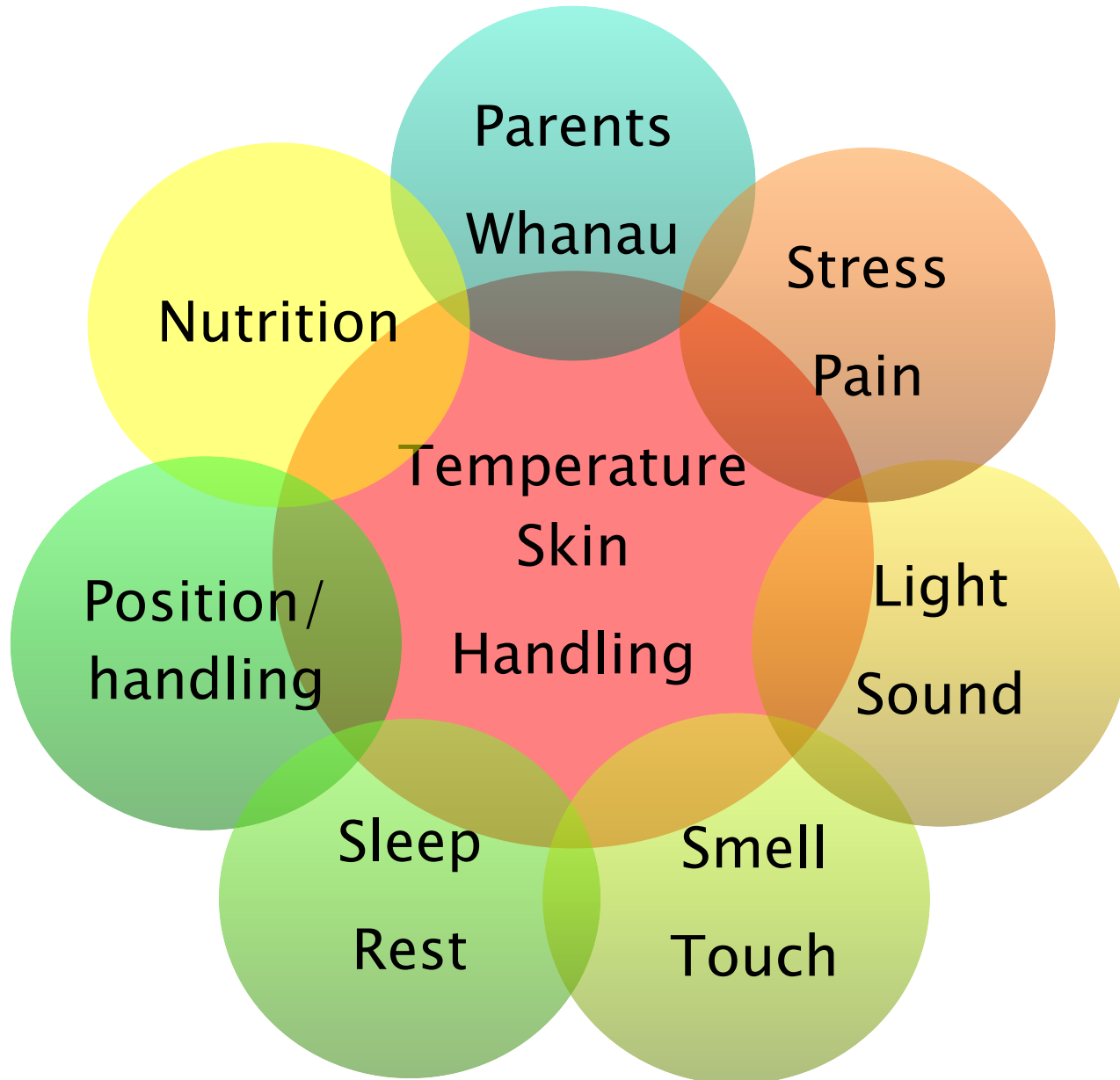
Environmental Protection



Environmental Protection



Environmental Protection



Environmental protection



Temperature
Control

▶ Pre-warm

Environmental protection



Temperature Control

- ▶ Pre-warm
- ▶ **Plastic**

Environmental Protection : Temperature



Environmental protection



Temperature Control

- ▶ Pre-warm
- ▶ Plastic
- ▶ Humidity

Environmental protection



Temperature Control

- ▶ Pre-warm
- ▶ Plastic
- ▶ Humidity
- ▶ Gases

Environmental protection



Temperature Control

- ▶ Pre-warm
- ▶ Plastic
- ▶ Humidity
- ▶ Gases
- ▶ X-Ray tray

Environmental protection



Skin

- ▶ Integrity
- ▶ Infection
- ▶ Tapes
- ▶ Monitoring
- ▶ Linen

Protection– Skin



Protection-Skin



Protection– Handling/Positioning



- ▶ Nest
- ▶ Horizontal
- ▶ Minimal

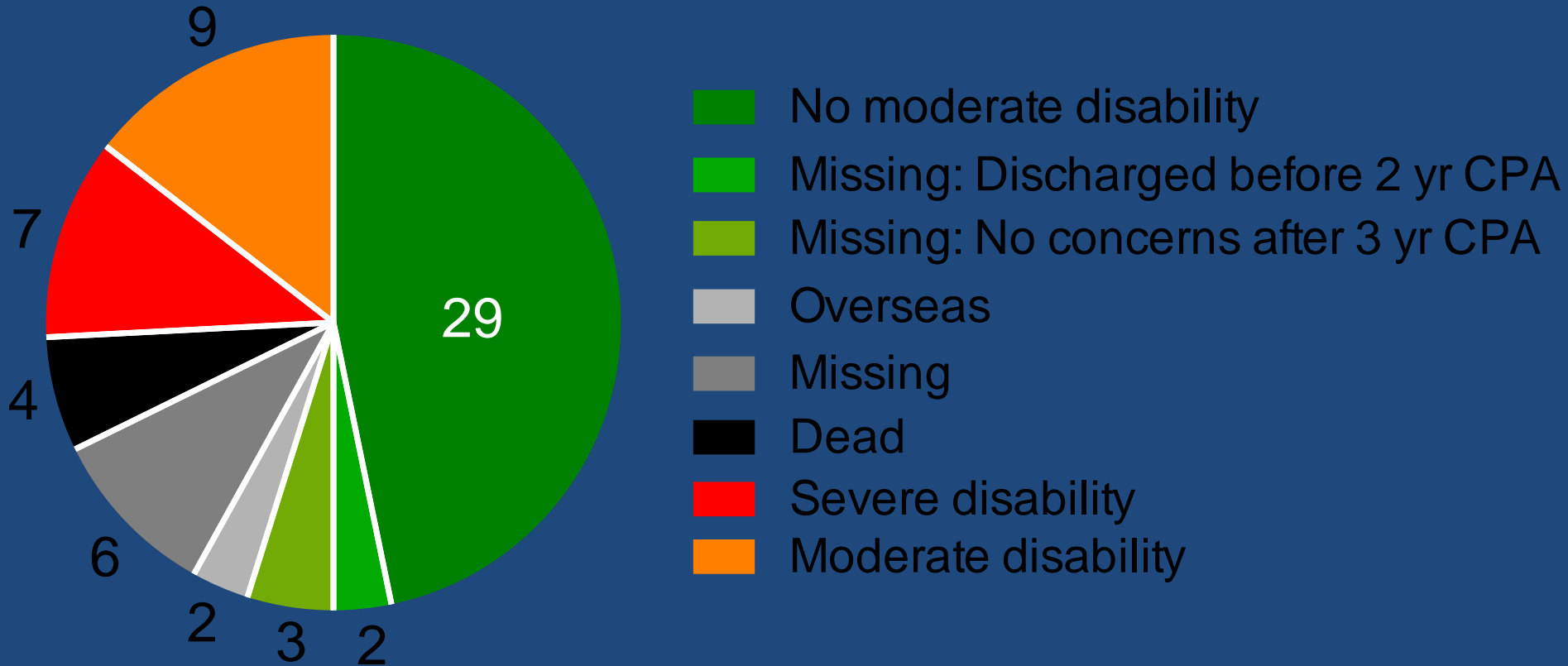


23/40
BWT 560g
Now 2 years corrected



Combined 23 & 24 week cohort

Wellbeing at 2-3 years



Total=62

Acknowledgements

- ▶ The babies and families we care for
- ▶ Our wonderful Wellington nursing team
- ▶ Max Berry



- ▶ Our cast of thousands
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**A person's a person,
no matter how small**