

Little and Nice



AUDIT OF INFANTS DISCHARGED 2KG AND LESS 2016



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NEONATOLOGIST/SENIOR LECTURER

Background



- ❑ No precise indications on appropriate weight or GA for discharge of preterm infants (Seki et al.,2011)
- ❑ Audit of key outcomes
- ❑ Discussion and conclude

Aim



- ❑ Infant characteristics
- ❑ Readmissions and other potential complications
- ❑ Homecare nursing team input required
- ❑ Growth
- ❑ Feeding

Methods



- ❑ Retrospective audit of case notes
- ❑ Including all babies admitted to Homecare ≤ 2 kg in 2016
- ❑ Data are presented as median (range), n (%) or mean (SEM) and Z scores (Based on Beeby birth weight data)

Infant Birth Characteristics (N=24)



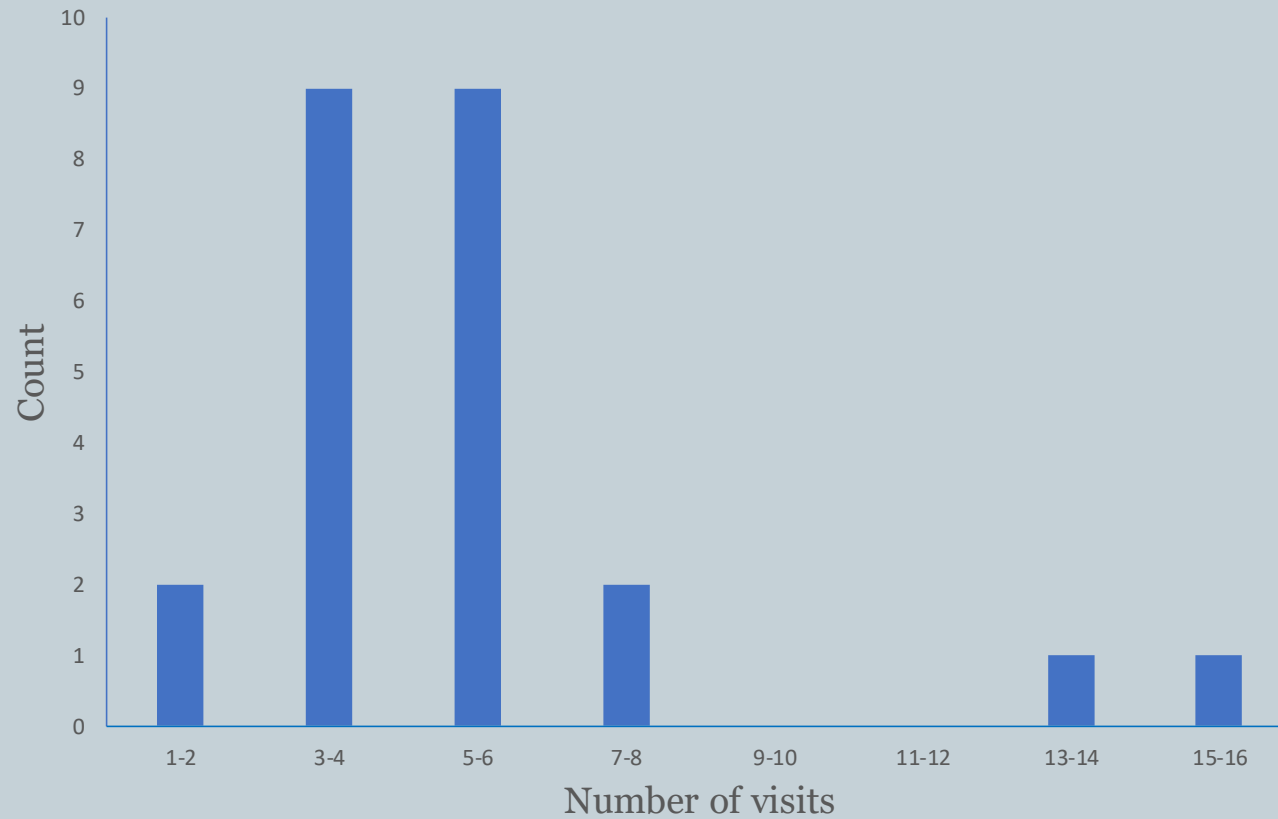
Characteristic	Data
Gestational Age (weeks)	36 (31-37)
Birthweight (g)	1800 (930-2110)
Birthweight z score	-2.1 (-2.8— -0.9)
Male	10 (42%)
Multiple Birth	4 (17%)
Ethnicity	
European	9 (38%)
Indian	9 (38%)
Maori	1 (4%)
Pacifica	2 (8%)
Asian	3 (12%)

Homecare: Admission and Discharge Data



	Admission (n=24)	Discharge (n=24)
Postnatal Age (days)	11 (6-46)	30 (9-88)
GA (weeks)	37 (35-39)	40 (37-47)
Weight (g)	1917 (1710-2000)	2500 (2020-3330)

Number of Homecare Visits



Results



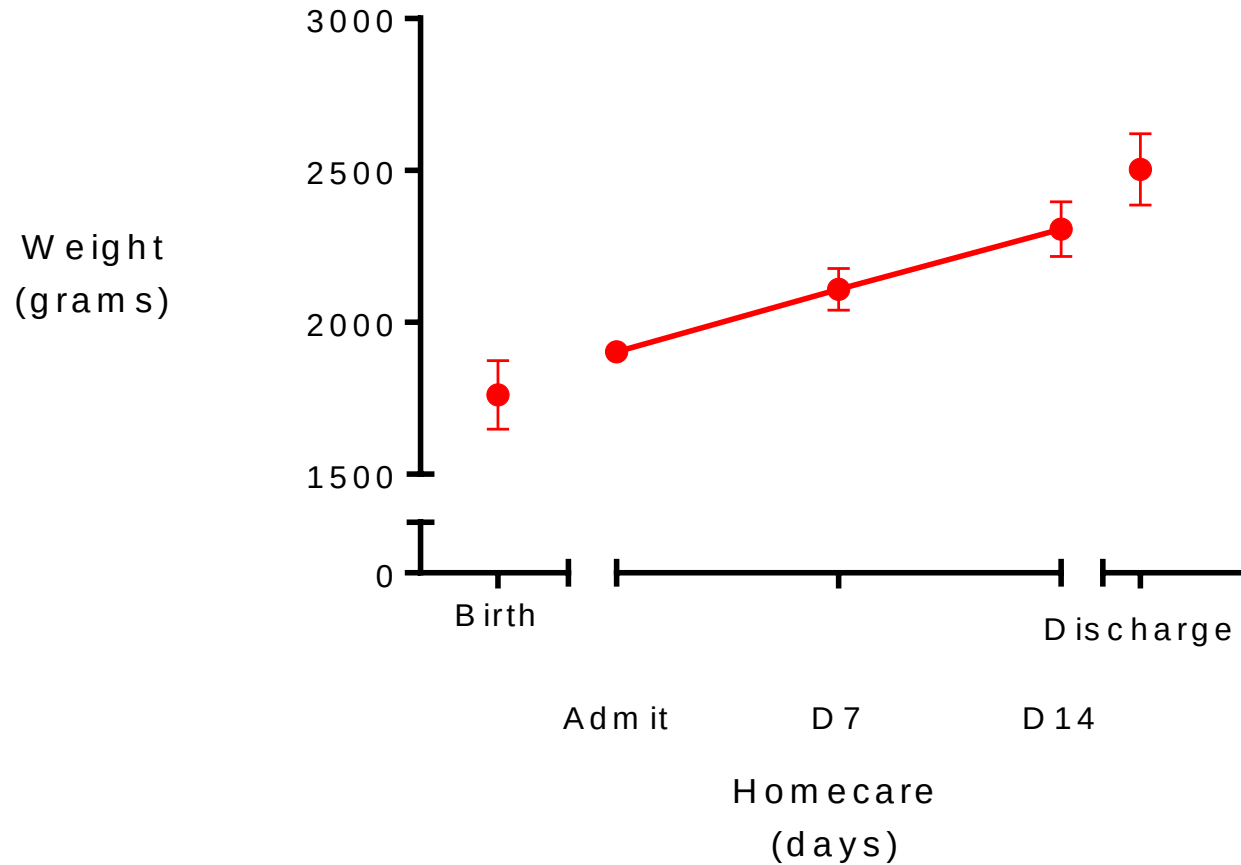
Readmissions

- ❑ 2 infants (8%)
- ❑ Infant 1-D&V's at 1 month post discharge
- ❑ Infant 2- RSV (PICU) at 12 days post discharge. Hypothermia at time of illness.

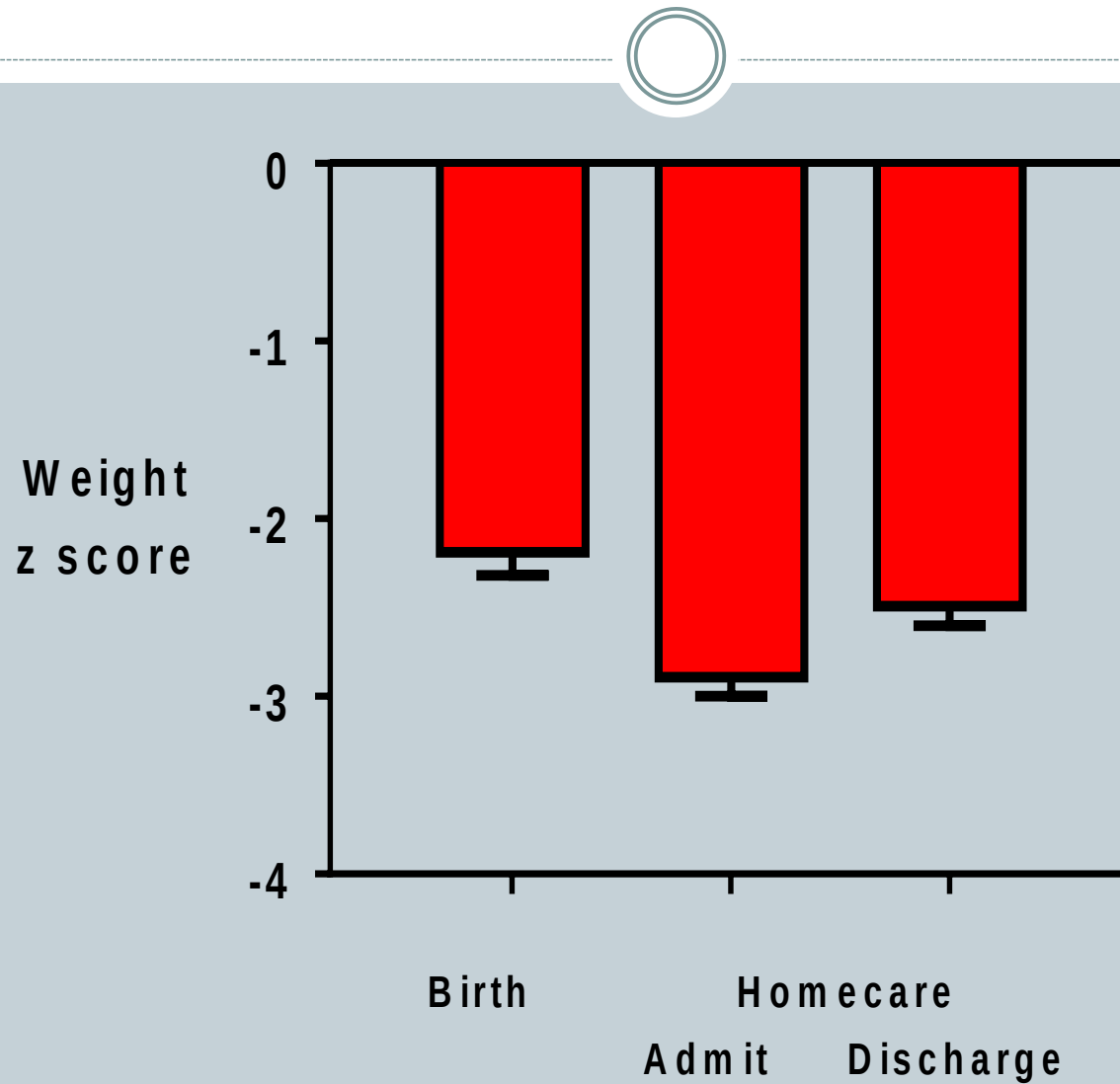
Dehydration/Hypothermia/NG

- ❑ No initial hypothermia
- ❑ No dehydration
- ❑ 1 NG inserted post discharge

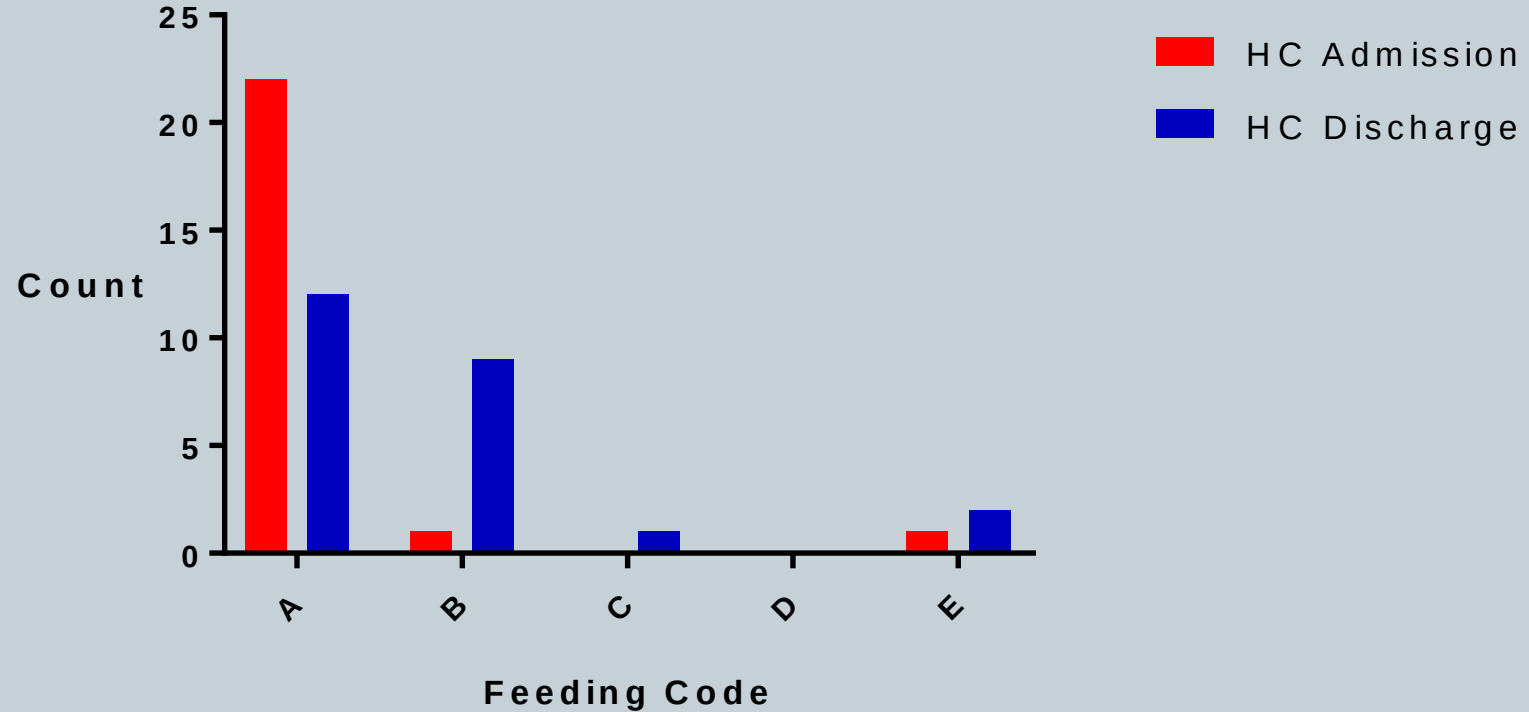
Results: Weight Gain



Growth-Z scores



Results: Feeding Comparison



The Family



- ❑ Joy and fear
- ❑ Unites families
- ❑ Cultural influences
- ❑ Social and environmental factors



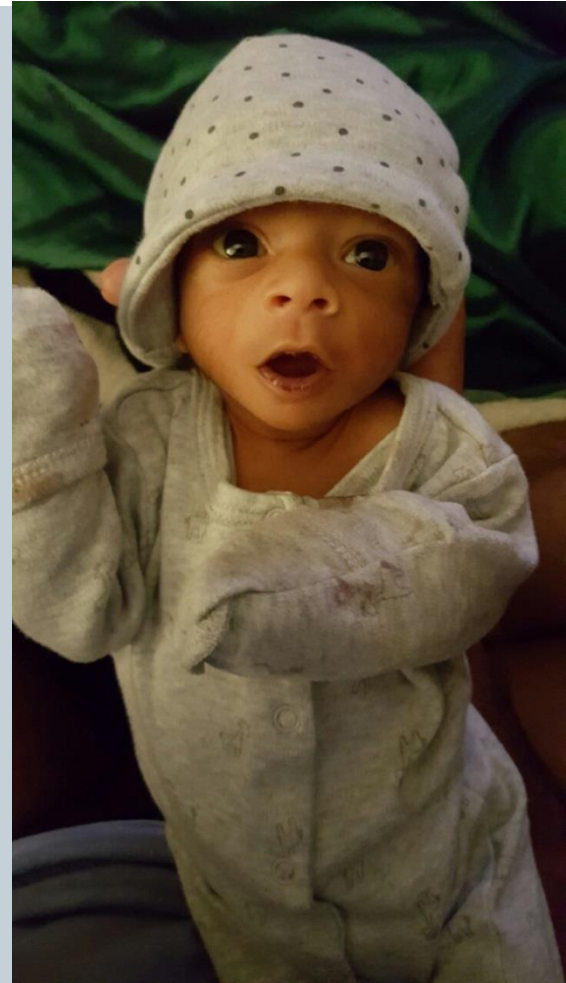
Discussion



- ❑ Small babies commonly discharged into Homecare
- ❑ Most infants did well
- ❑ Two readmissions due to infection
- ❑ Half the babies changed to at least some bottle/formula feeds

Conclusion

- ❑ 'Big' in NICU but 'small' in the community
- ❑ Confidence in discharging some infants 2kg or less
- ❑ Discharge planning/education important
- ❑ On-going parental support and validation



References



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- ❑ Dellenmark-Blom, M., & Wigert, H. (2013). Parents' experiences with neonatal home care following initial care in the neonatal intensive care unit: a phenomenological hermeneutical interview study. *Journal of Advanced Nursing*, 575-586.
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- ❑ Seki, K., Iwasaki, S., An, H., Horiguchi, H., Mori, M., Nishimaki, S & Yokota, S. (2011). Early discharge from a neonatal intensive care unit and rates of readmission. *Pediatrics International*, 53, 7-12.