



Raise your hand if...

• You are a parent/caregiver

• You currently pack or have previously packed school lunchboxes

• You find/found packing lunchboxes a challenge at times

**Background** 

• 1 in 4 Australian children are overweight or obese<sup>1</sup> and 23% of children and 53% of

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 A high intake of discretionary foods is a causal factor in the development of overweight & compromise in nutritional status<sup>3</sup> however just over one third of Australian children's total energy intake is from discretionary foods.<sup>4</sup>

adults are overweight or obese in the Northern NSW LHD.2

- Provision of greater quantity and variety of snack items results in considerably higher energy consumption by children.<sup>5</sup>
- 86% of Australian bring a packed lunch to school<sup>6</sup> and around one third of student total daily energy intake is consumed at school.<sup>6</sup>







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## **Background**

- Nutrition is often compromised for convenience and child preference in purchasing pre-packaged individually wrapped foods.<sup>7</sup>
- Economical factors are also influential in parental selection of lunchbox items.<sup>7</sup>
- Child and peer pressure starts to exert more influence on decisions around lunchbox item selections, particularly around beginning primary school.<sup>8</sup>
- Parental peer pressure around being a 'good parent'.9
- Increasingly busy parental lifestyles and seeking to satisfy children's emotional needs through reward or 'treat' foods at school.<sup>8</sup>







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**Rationale** 

- No studies have yet explored the relationship between the presence of discretionary foods in school lunchboxes and student progression through primary school in Northern NSW.
- This study will allow for:
  - A better understanding on the rate at which discretionary foods are being packed in primary school student lunchboxes in Northern NSW and whether a relationship exists between this and student progression through primary school.
  - Further informed and targeted support provided to parents around packing healthy lunchboxes for their children throughout all stages of primary school.







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- · Aim:
  - To identify whether year six students consume more discretionary food items than kindergarten students at school in Northern NSW.





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## **Hypothesis**

The null hypothesis will be that there is no difference between the number of discretionary food items packed in the lunchboxes of kindergarten and year six students in Northern NSW primary schools, when adjusted for estimated energy requirement.

Hypothesis 1.1

There will be no difference between the proportion of Kindergarten and year 6 students who have no discretionary food items packed in their lunchboxes

Hypothesis 1.2

There will be no difference between the proportion of Kindergarten and year six students who have two or more discretionary food items packed in their lunchboxes than







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## **Study Design**

- A cross-sectional quantitative design was used in conducting this study. A lunchbox survey was conducted in twelve schools to collect data on the number of discretionary food items in kindergarten and year six lunchboxes.
- Study Setting: Northern NSW primary schools
- Study Duration: June 2019 September 2019
- NCNSW HREC No: LNR211 LNR/19/NCC/1 & State Education Research Application Process (SERAP) approval DOC 19/311095

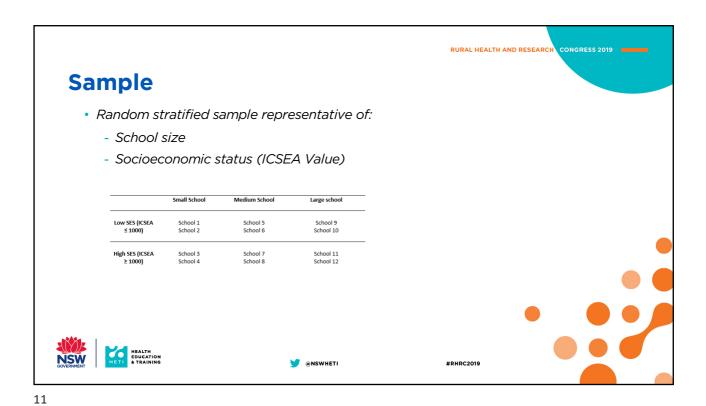






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Methodology

 Data Collection Lunchbox survey & photo image record

- Conducted in the school setting on a day not known to students or parent/caregivers
- If possible, not on a day that canteen or 'nude food' / 'package free' food day takes place
- Prior to first food break
- Difficult to photograph lunchboxes and items taken into consideration



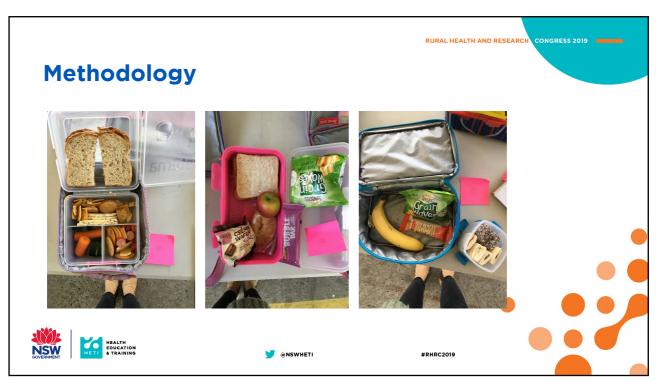




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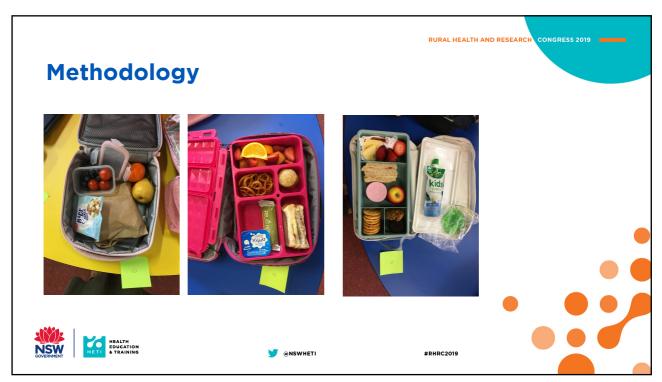


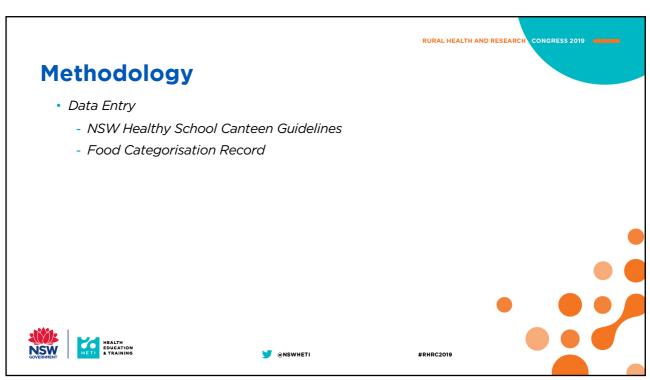
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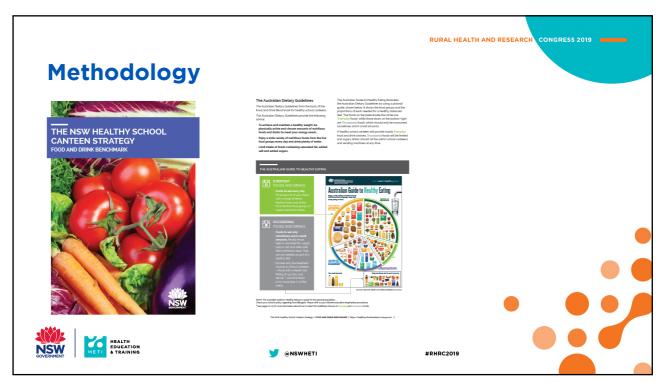


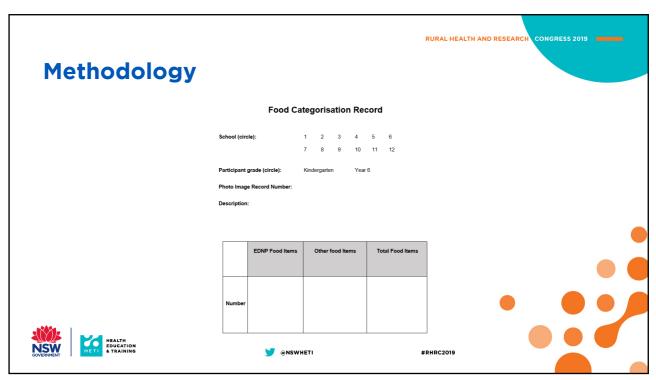


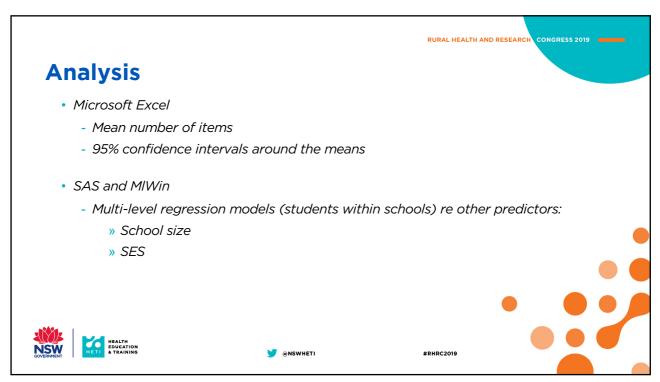


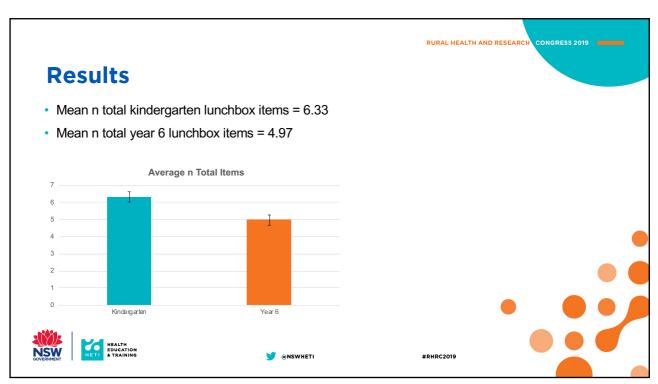


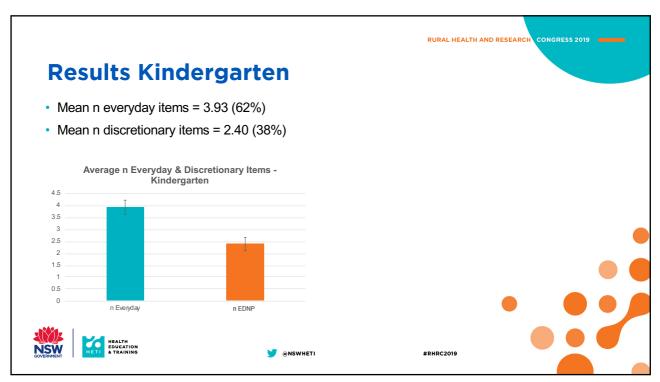


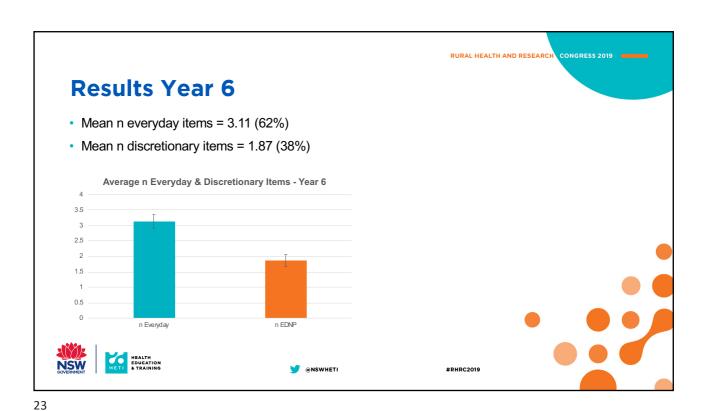












**Results** 

Unable to reject the null hypotheses as it was found that there was no significant difference in the average number of discretionary items packed in kindergarten and year 6 lunchboxes.

Predictor variables included:

- School size
- Total number of lunchbox items







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