

Usage patterns and quality in Australian early childhood education and care programs

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Research Collaboration









Department of Education and Early Childhood Development



Australian Government

Australian Research Council









Presentation Overview



- 1. Some policy interests
- 2. E4Kids study overview
- 3. Family demographics and the use of ECEC programs (LDC, K, FDC), and non-formal care (grandparent, friend...) 2 years before school
- 4. ECEC program quality 2 years before school
- 5. Some ideas and further questions

Some policy interests



- 1. Changing education trajectories before school the promise and potential of ECEC
- 2. Access and quality: kindergarten and child care
- 3. Supporting children in families having greater risk factors

E4Kids – Study Overview



Research design:

 5 year longitudinal study of 2,653 children
 (3-4 years old), their families, educators/ teachers, directors/ principals

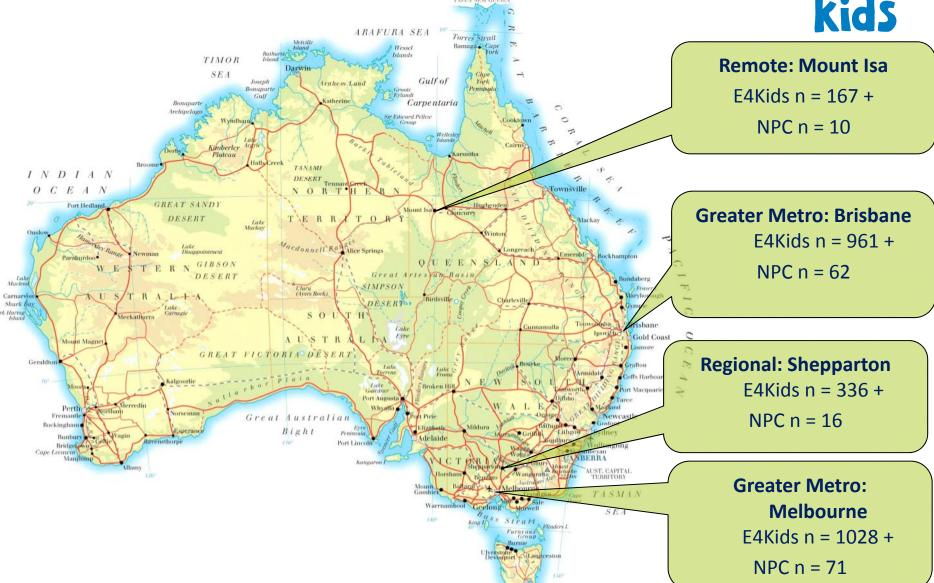


Questions for this presentation

- When children were 2 years before school, what were the family characteristics, and the likelihood of children being in different kinds of ECEC?
- What was the relative process quality of these ECEC programs?
- What insights can be gained and what further analysis are in process?

E4Kids Sample and Location





Measures in E4Kids



♦ CHILD ASSESSMENT

Height, weight, waist
Cognition & Achievement: WJ-III
Friendships/social inclusion: Bus story

♦ PROGRAM ASSESSMENT

Pedagogy: CLASS
Other characteristics: ECERS-R,
3 subscales

♦ QUESTIONNAIRE

Parent: ECEC program history/ access; child behaviour, social skills; parenting style; home learning environment

♦ QUESTIONNAIRE

Director/Principal: structural aspects **Educator/Teacher**: child behaviour,

structural aspects

♦ DATA LINKAGE

NAPLAN

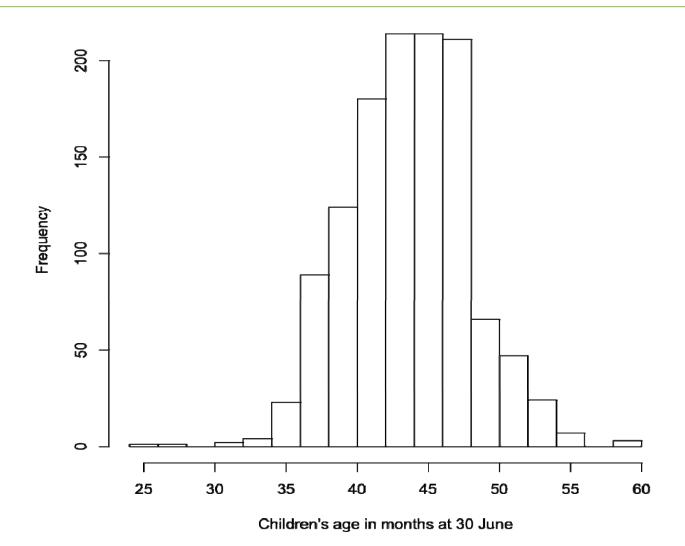


Patterns of care and education 2 years before school



How old were children 2 years before school?



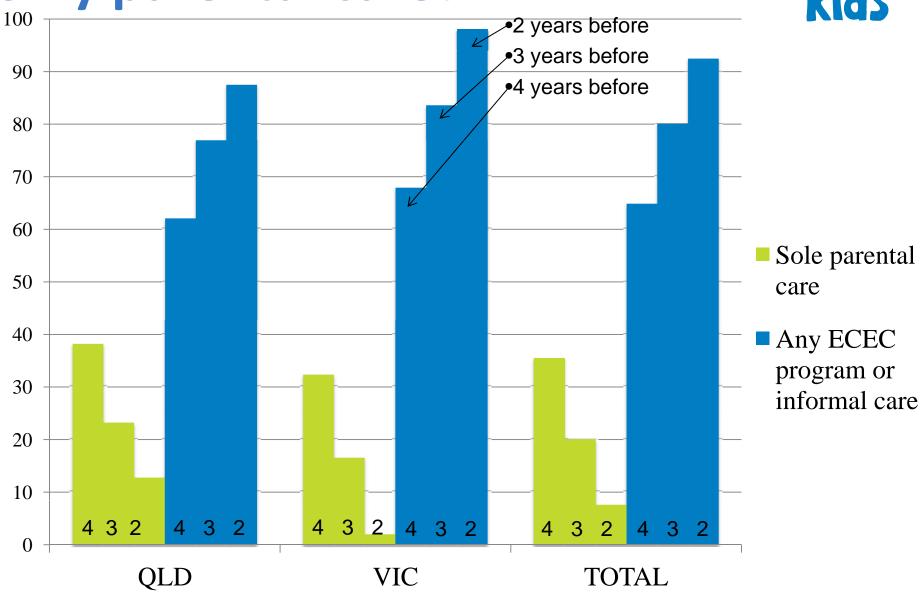


Family demographics 2 years before school



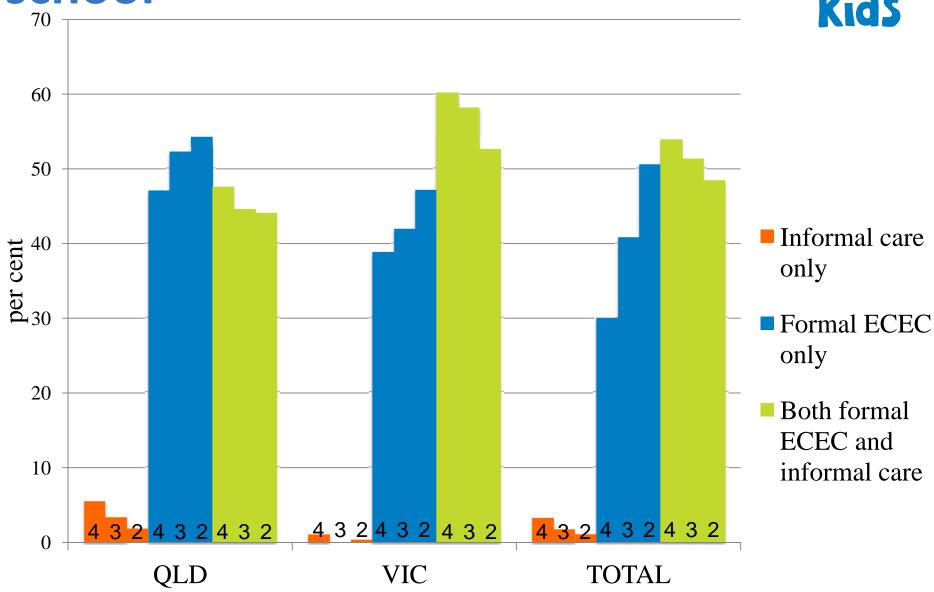
- •Main caregivers:
 - •35.94 years (SD = 5.21 years)
 - •91% female
 - •62% in labour force
 - •79% born in Australia
- Families
 - •90% two-parent
 - •50% between \$50 000 and \$124 999

Formal ECEC and informal care or only parental care?

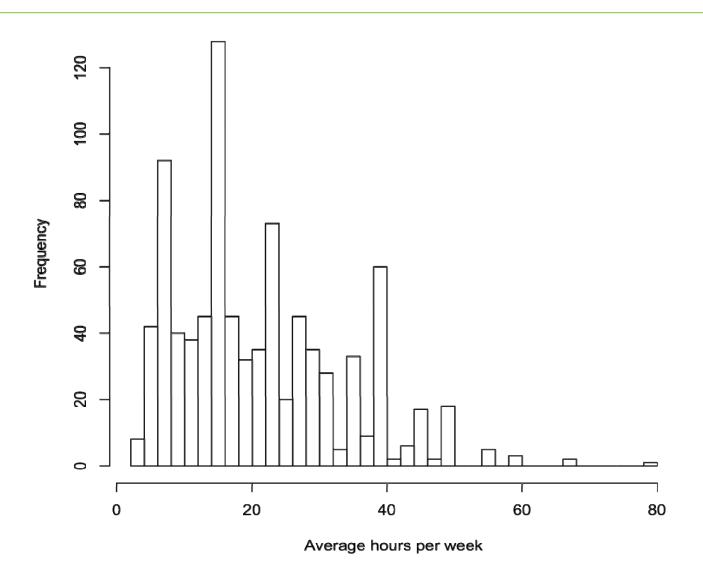


Mix of education and care before school



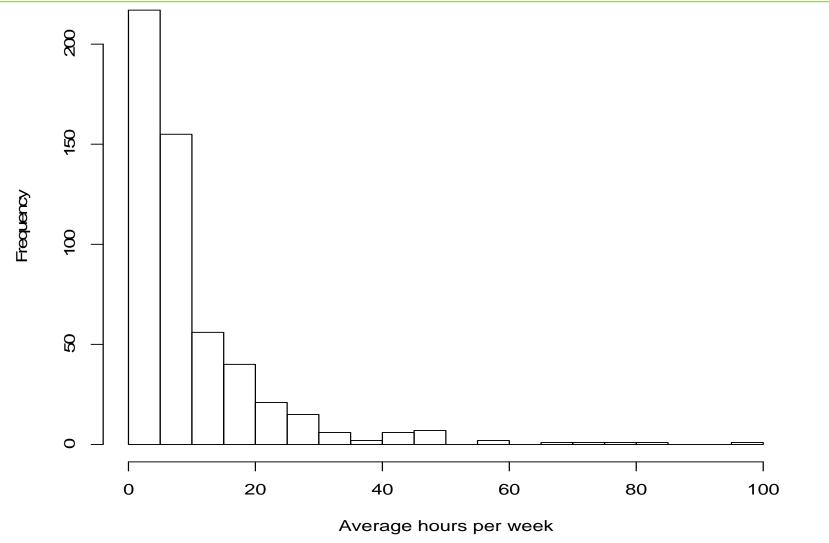


Hours in long day care 2 years before school



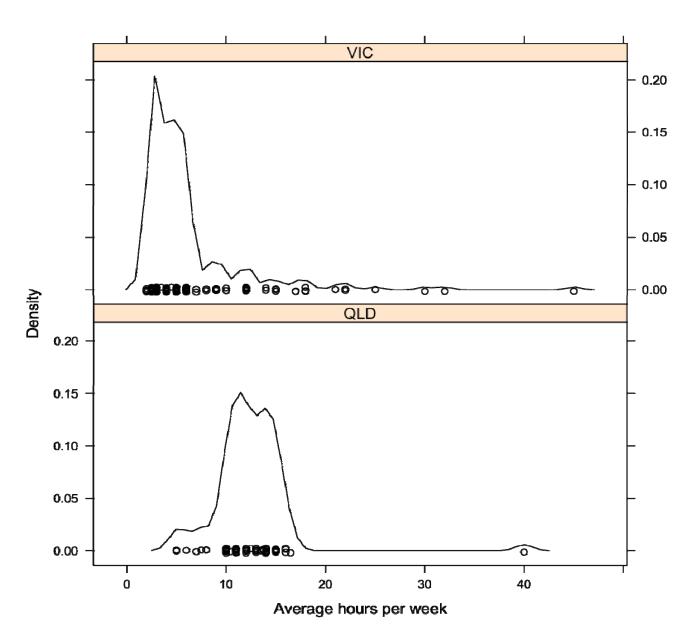
Hours of Informal Care 2 years before school





Hours in stand-alone Kinder





Statistical Analysis

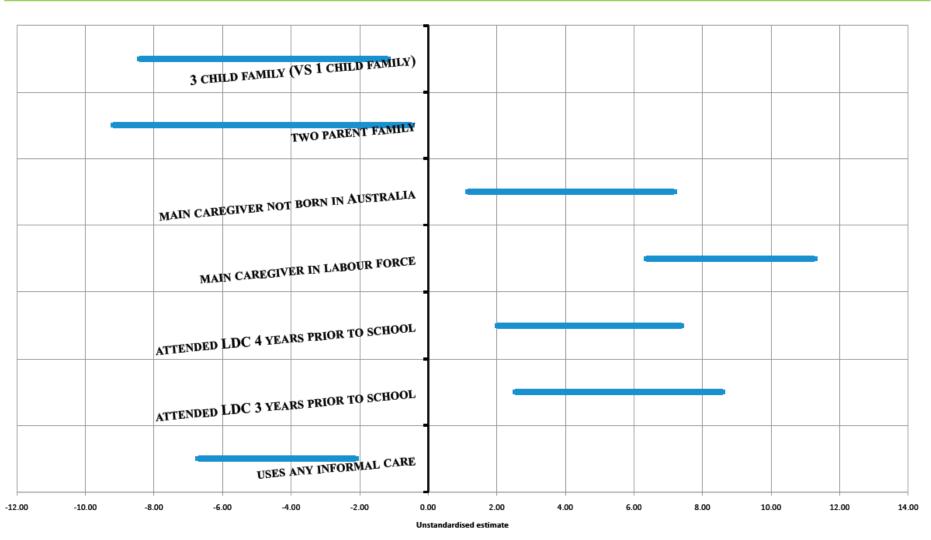


What child and family characteristics are associated with formal ECEC use 2 years prior to school when we control for the effects of the others?

- We fit 3 models
 - Model 1 predicts total hours of formal ECEC in typical week
 - Model 2 predicts total hours of Child Care
 - –Model 3 predicts the use of <u>one formal type versus</u> <u>more than one</u> formal type

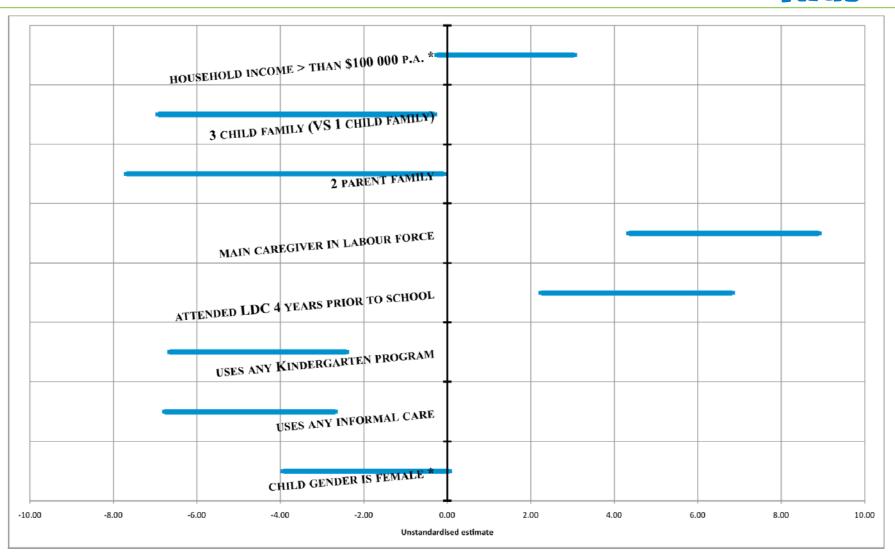
All Formal ECEC: total hours of use





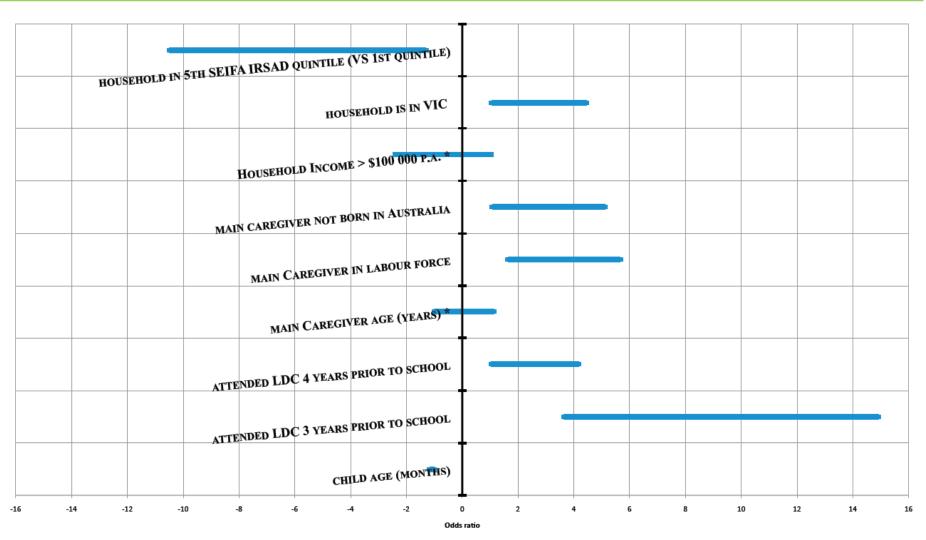
Long day care: hours of use kids





Odds of using more than 1 formal program





Key findings from analysis



- Relative importance of family circumstance over child characteristics
- Consistent findings
 - -Labour force participation
 - History of child care use
 - -Family composition and number of children
 - -Main caregiver born overseas



So, what about the process quality of programs used by children?



Process quality measured by CLASS



Emotional Support

- Positive Climate
- Negative Climate
- Teacher Sensitivity
- Regard for Child Perspectives

Class Organization

- Behavior Management
- Productivity
- •Instructional Learning Formats

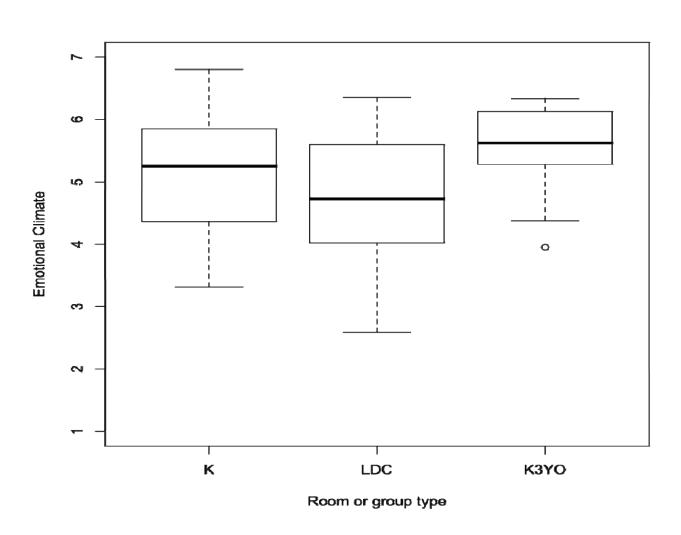
Instructional Support

- Concept Development
- Quality of Feedback
- Language Modeling
- Literacy focus

•Pianta, Hamre et. al., 2009

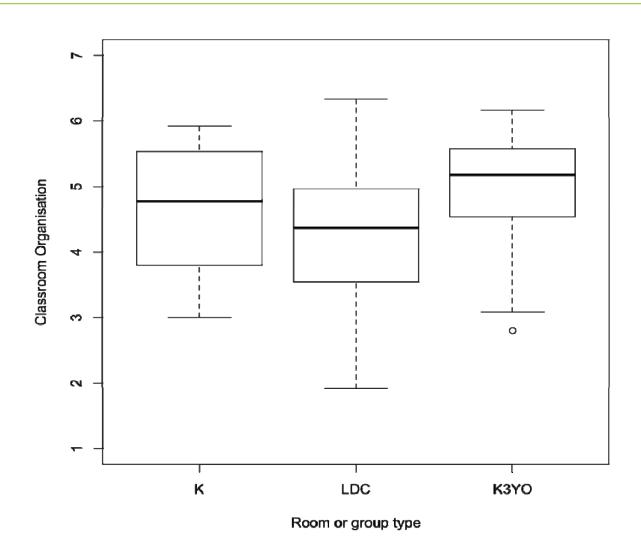
Emotional Climate





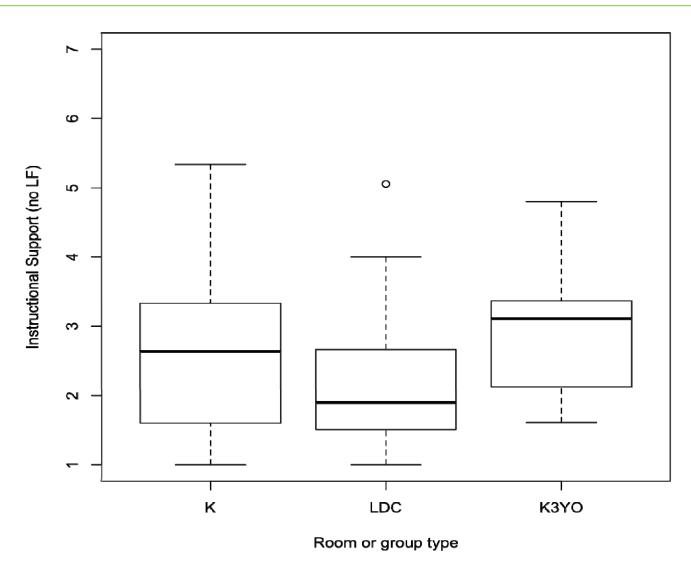
Classroom Organisation





Instructional Support (no LF)







Early Childhood Development Steering Committee



Council of Australian Governments

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CLASS

- Emotional
- Organisational
- Instructional

- 1. Educational program and practice
- 2. Relationships with children

Summary comments



- E4Kids provides a very rich data source for progressing our understanding of the impact of participation in ECEC services on children's learning and development that will be available to help guide future public investment.
- We face major challenges in providing all our children with access to high quality programs and the equally pressing problem of ensuring that our most vulnerable children receive this support.

E4Kids Research Network



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