

A Public Health Approach to Enhancing Early Childhood Development in South Australia

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DEVELOPMENT AS FREEDOM



AMARTYA SEN

WINNER OF THE NOBEL PRIZE IN ECONOMICS

*"Fascinating. . . The overall argument [is] eloquent and probing."
—The New York Times*

Just and fair societies enhance “Human Capabilities”

Life

Bodily Health

Safety

Use senses, Imagination, Thought

Emotions

Practical Reason

Affiliation

Other species

Play

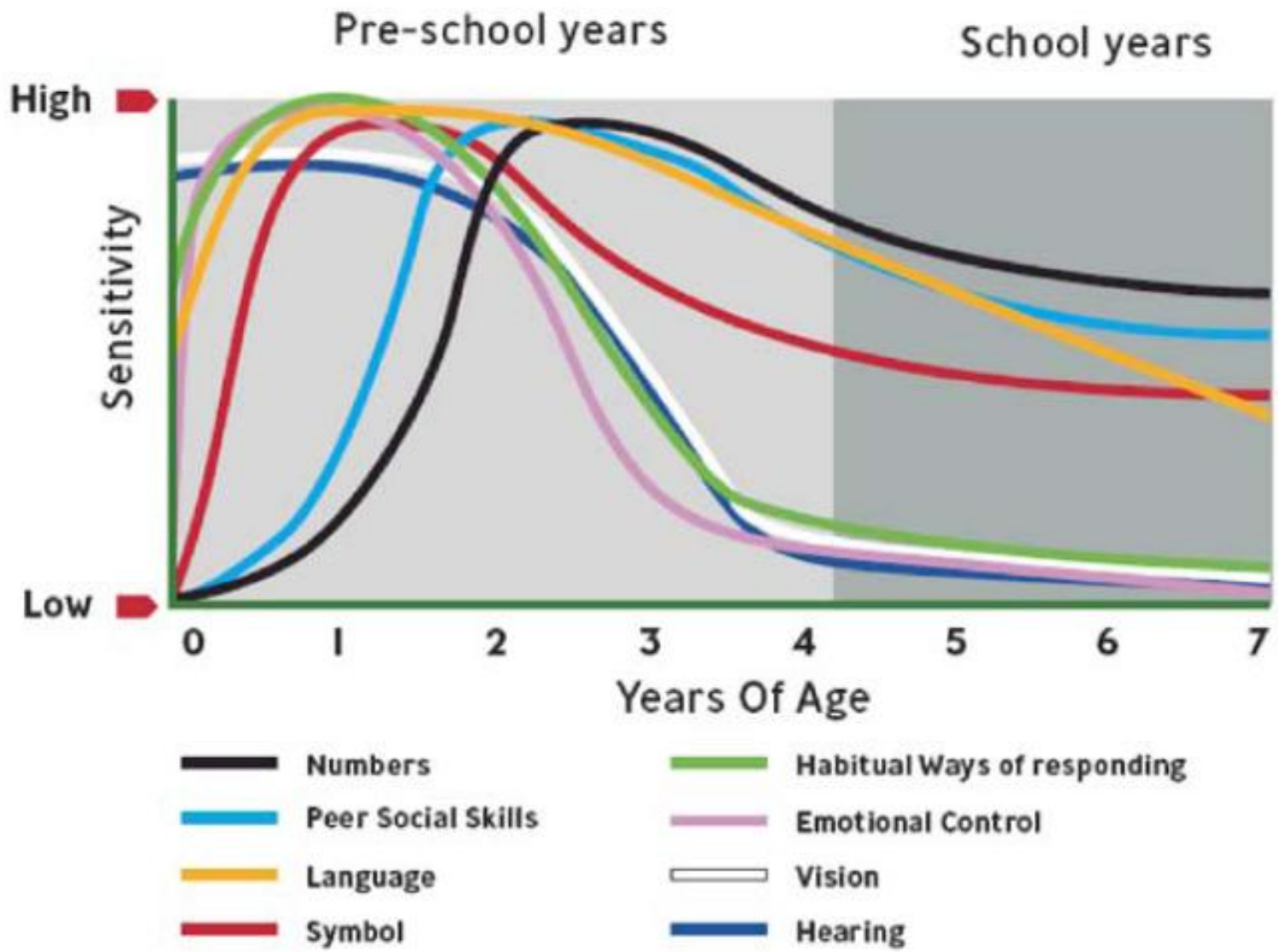
Control over one's environment – political, material

Developmental Origins of Human Capabilities

Pregnancy ----> Birth -----> Age 5

- Cognitive
- Emotional
- Social
- Speech, language, hearing
- Behaviour
- Safety
- Health

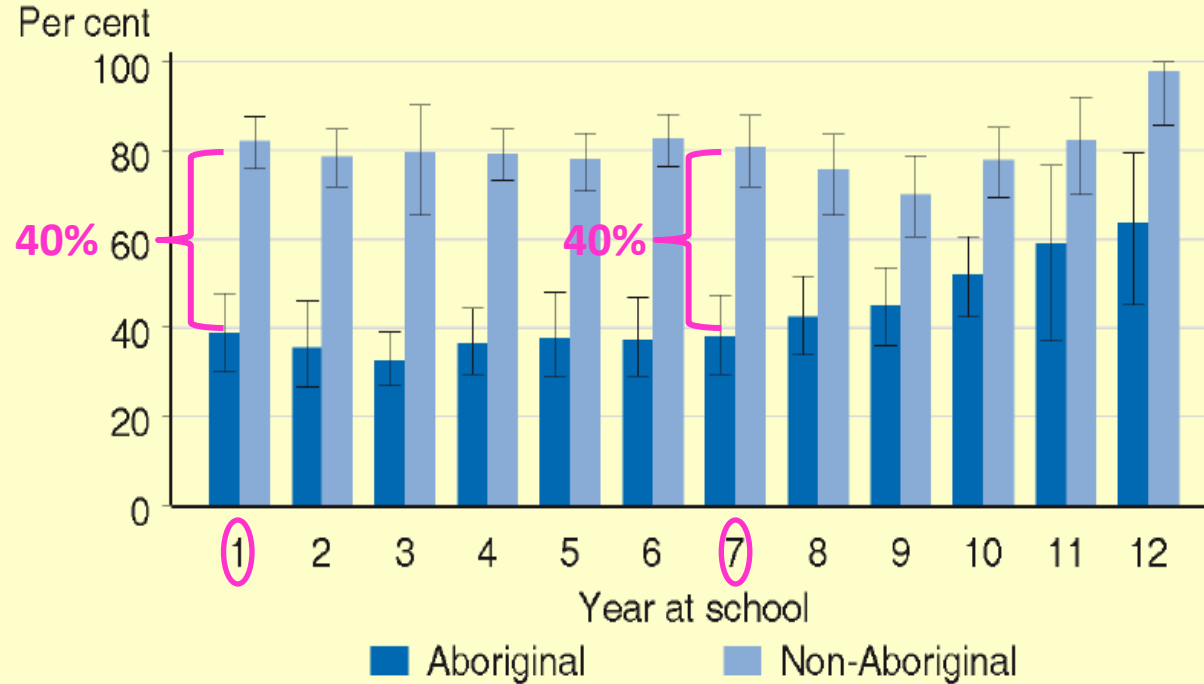
Figure 1: 'Sensitive periods' in early brain development.



Source: Graph developed by the Council for Early Child Development (Nash 1997; Early Years Study 1999; Shonkoff 2000) <http://www.councilecd.ca>

Disparities in academic achievement are evident early and remain through primary school

PROPORTION OF ABORIGINAL AND NON-ABORIGINAL STUDENTS AT AVERAGE OR ABOVE AVERAGE ACADEMIC PERFORMANCE, BY YEAR AT SCHOOL



Silburn, Zubrick, et al.



Effects of fully-established Sure Start Local Programmes on 3-year-old children and their families living in England: a quasi-experimental observational study

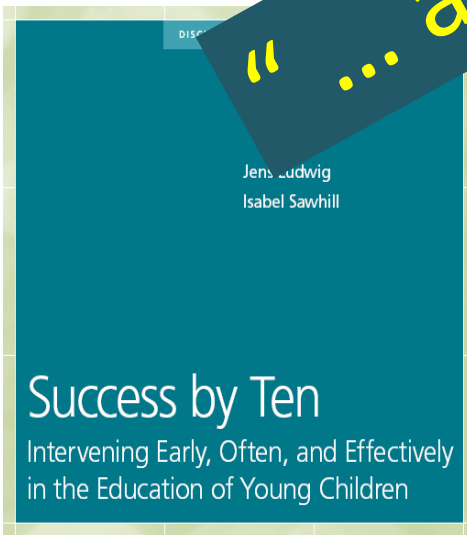
Edward Melhuish, Jay Belsky, Alastair H Leyland, Jacqueline Barnes, and the National Evaluation of Sure Start Research Team*

Lancet (2008)

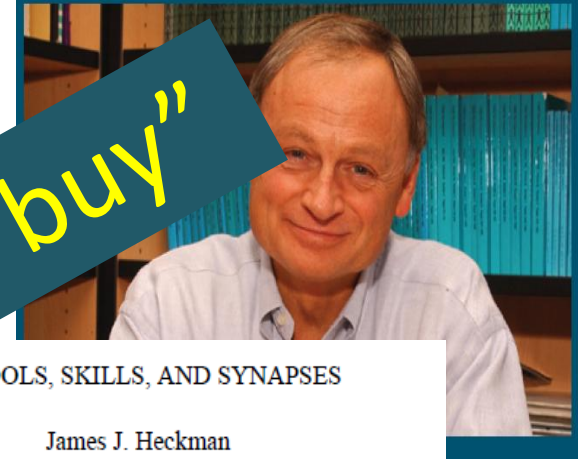
The Fiscal Effects of Investing in High-Quality Preschool Programs

William T. Dickens and Charles Baschnagel

BROOKINGS | 1775 Massachusetts Avenue, NW, Washington, DC 20036 | 202.797.6000 | fax 202.667.8000



The Story of **David Olds** and the Nurse Home Visiting Program



SCHOOLS, SKILLS, AND SYNAPSES

James J. Heckman

Working Paper 14064

<http://www.nber.org/papers/w14064>

NATIONAL BUREAU OF ECONOMIC RESEARCH
1050 Massachusetts Avenue
Cambridge, MA 02138
June 2008

The Economics of Early Childhood Policy

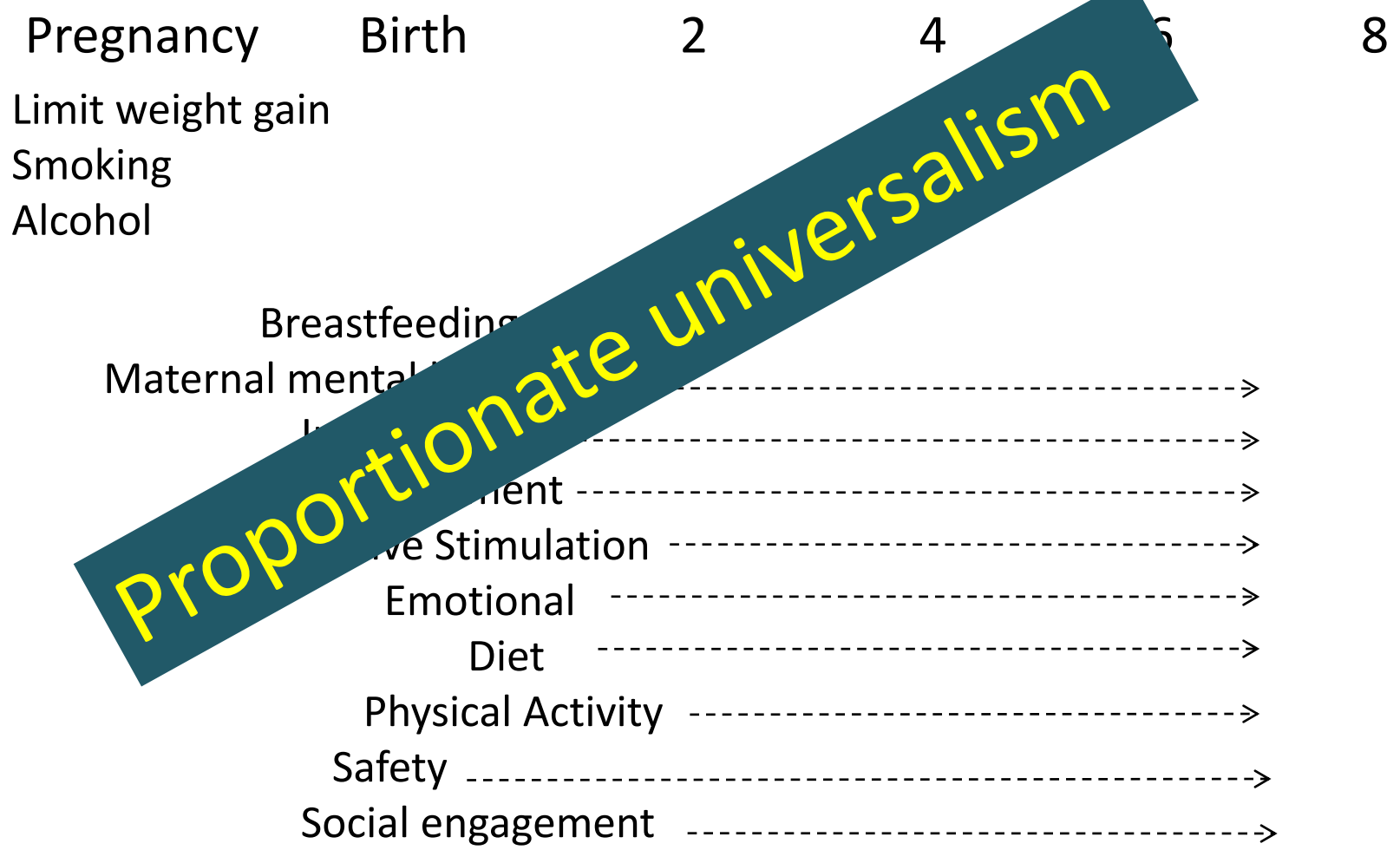
What the Dismal Science Has to Say About Investing in Children

M. Rebecca Kilburn, Lynn A. Karoly



“... a social policy best buy”

Population health approaches to support the substrates of “human capability” formation



Why South Australia?

Robust political commitment to maternal and early childhood services

Robust Community-based and Clinical Service Provision

- Pregnancy and antenatal services
- Universal and targeted postnatal services offered by CYWHS through CaFHS
- Integrated ECD services provided by Children's Centres and DECS
- Child protection services provided by DFC

Robust Research Capacity

- Pregnancy and healthy start to life research through the Robinson Institute
- Development of new therapeutic and preventative health strategies at WCHRI
- Strong ECD partnerships with Research and Evaluation Unit at CYWHS
- AEDI and school achievement research at DECS

Australian Early Development Index

Legend

Help

Data displayed:

AEDI Results 2009, Developmentally vulnerable on one or more AEDI domains (%)

2010 data release

Select AEDI Community

Select data variable

Local Communities

Lowest proportion







Highest proportion

N/A

 Communities

 Background Mapping

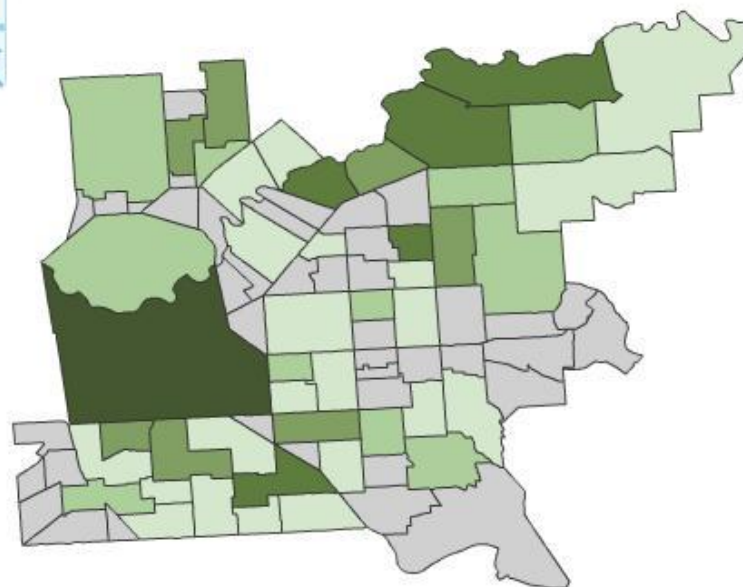
Proportion spread



Return to map of Australia

AEDI Results Guide

AEDI website



Local Community	Result	# vuln	# total
Adelaide	39.1	9	23
Athelstone	10.5	10	95
Auldana	N/A	N/A	N/A
Beaumont	16.7	4	24
Beulah Park	13.3	2	15
Black Forest	N/A	N/A	N/A
Broadview	24.1	7	29
Burnside	10.5	4	38
Campbelltown	29.7	19	64
Clarence Park	N/A	N/A	N/A
College Park	N/A	N/A	N/A
Collinswood	17.4	4	23
Dulwich	10.0	2	20
Eastwood	N/A	N/A	N/A
Erindale	N/A	N/A	N/A
Evandale	5.3	1	19
Everard Park	N/A	N/A	N/A
Feliistow	19.1	4	21
Firle	26.7	4	15
Fitzroy	N/A	N/A	N/A
Forestville	N/A	N/A	N/A
Frewville	N/A	N/A	N/A
Fullarton	25.7	9	35
Gilberton	N/A	N/A	N/A

N/A = Data for this local community is not available

AEDI REGION

SOUTH AUSTRALIA: Eastern Adelaide

AEDI GIS

Why South Australia?

Robust political commitment to maternal and early childhood services

Robust Capacity in Community-based and Clinical Service Provision

- Pregnancy and antenatal services
- Universal and targeted postnatal services offered by CaFHS
- Integrated ECD services provided through Children's Centres

Robust Capacity for Research

- Pregnancy and antenatal research through the Robinson Institute
- Strong partnerships with Research and Evaluation Unit at CYWHS around FHV
- Development of new therapeutic and preventative health strategies at WCHRI
- AEDI and human capital research at DECS
- ECD research projects using routinely linked data from SA Health, Births, Deaths and Marriages, AEDI (DEEWR) and NAPLAN (DECS).