

Cette présentation a été effectuée le 12 mars 2010, au cours de la journée « Agir collectivement pour débiter l'école du bon pied! » dans le cadre des Journées annuelles de santé publique (JASP) 2010. L'ensemble des présentations est disponible sur le site Web des JASP, à l'adresse <http://www.inspq.qc.ca/archives/>.

JASP – Annual Public Health Days

Montreal, Quebec

Communities and Equity in Early Child Development

By J. Fraser Mustard
The Founders' Network
Founding Chairman
Council for Early Child Development

March 12, 2010

The Rights of the Child

Equity in Human Development

World Health Organization

Michael Marmot

Inequalities in Health and
Development

Equity From the Start

WHO, August 2008

The Social Determinants of Human Development

Affects:

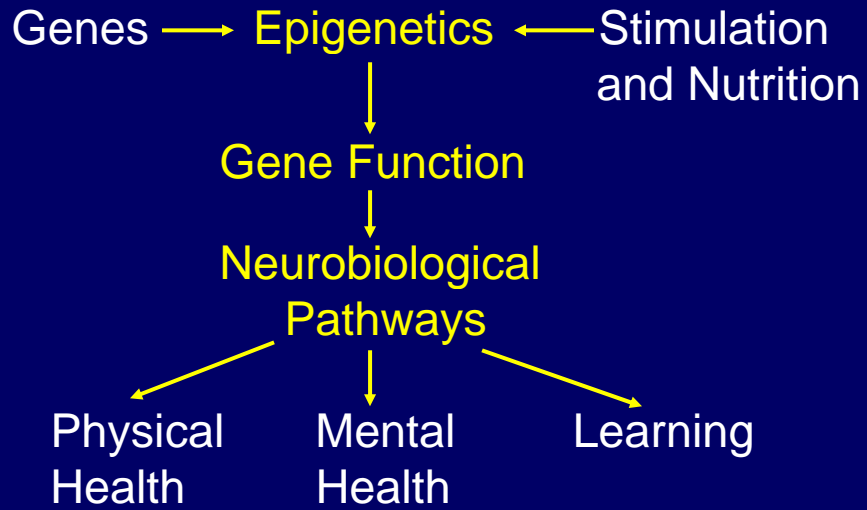
- Health (physical and mental)
- Learning
- Behaviour

Nature and Nurture

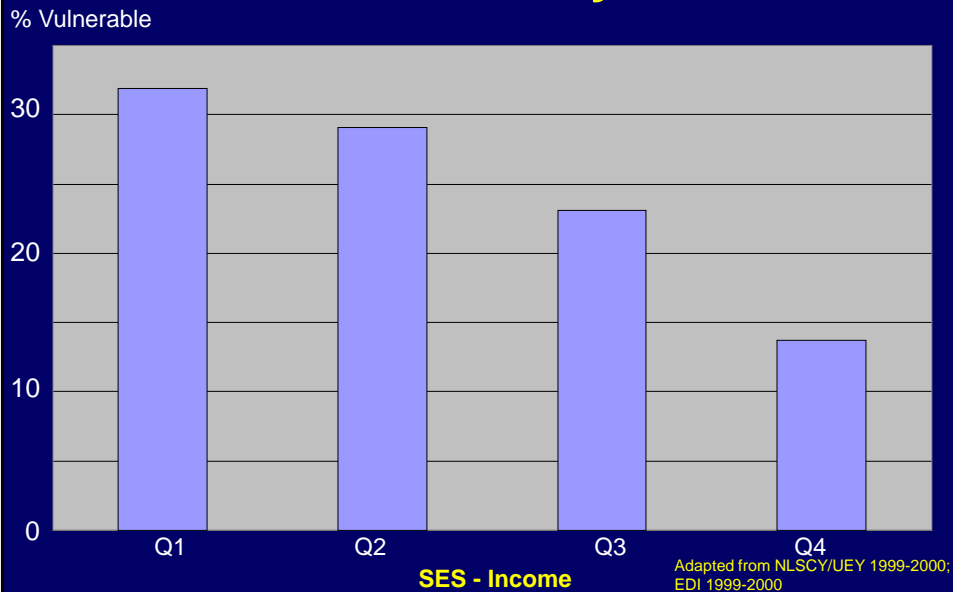
Human Development

Nature

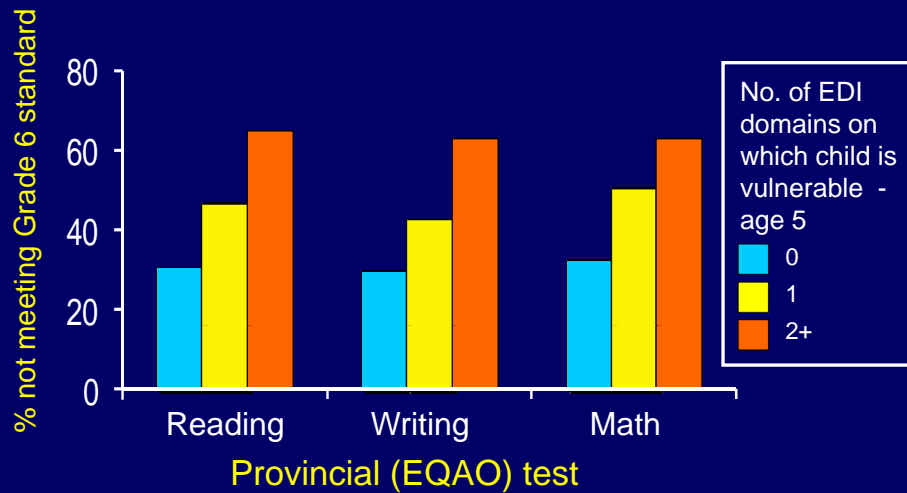
Nurture



Canada – EDI Children 5-6 yrs



Vulnerability on the EDI and Grade 6 outcomes



Source: Toronto District School Board, 2007

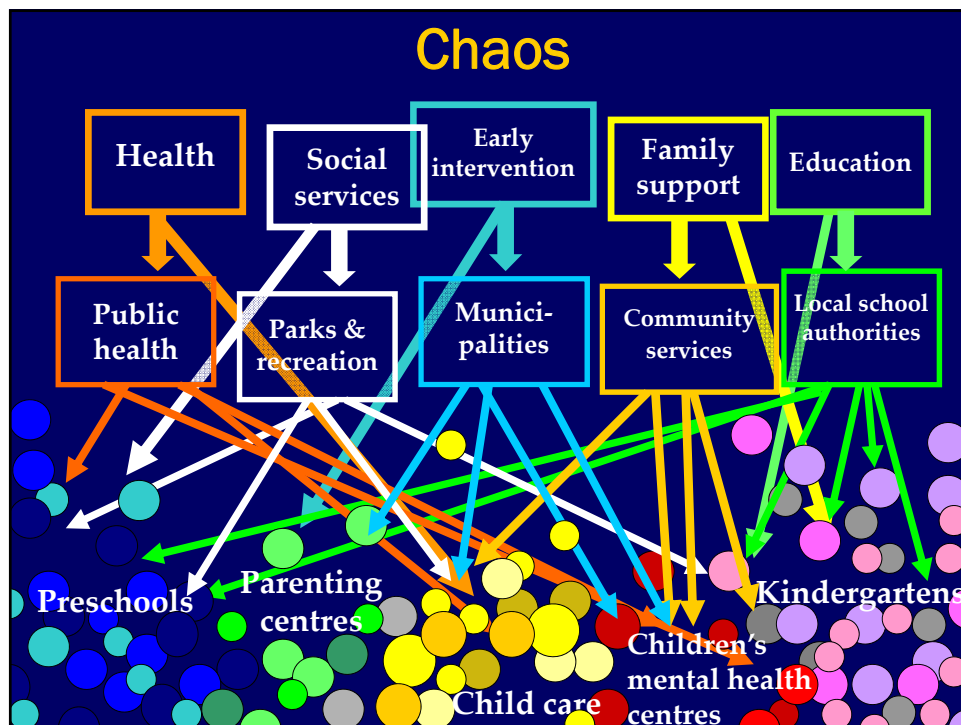
Lessons from Quebec's Early Childhood and Family System Since 1997

- Expanded parental leave and family income benefits.
- Early childhood centres often connected to community social & health centres.
- Child poverty has steadily declined by over 50%.
- Improved school achievement.
- Maternal workforce participation has increased from the lowest in Canada to the highest.
- The tax income from working mothers now pays for 40% of the child care program.
- EDI scores show reduced vulnerability in many low income Montreal neighbourhoods.

Direction de santé publique de l'Agence de la santé et des services sociaux de Montréal

Montreal

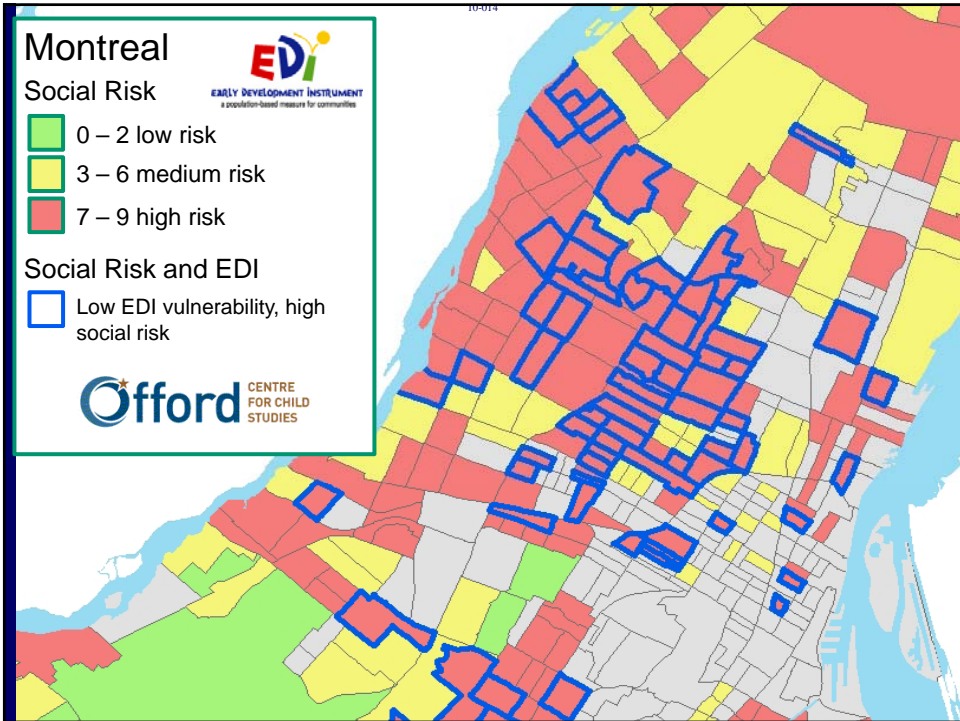
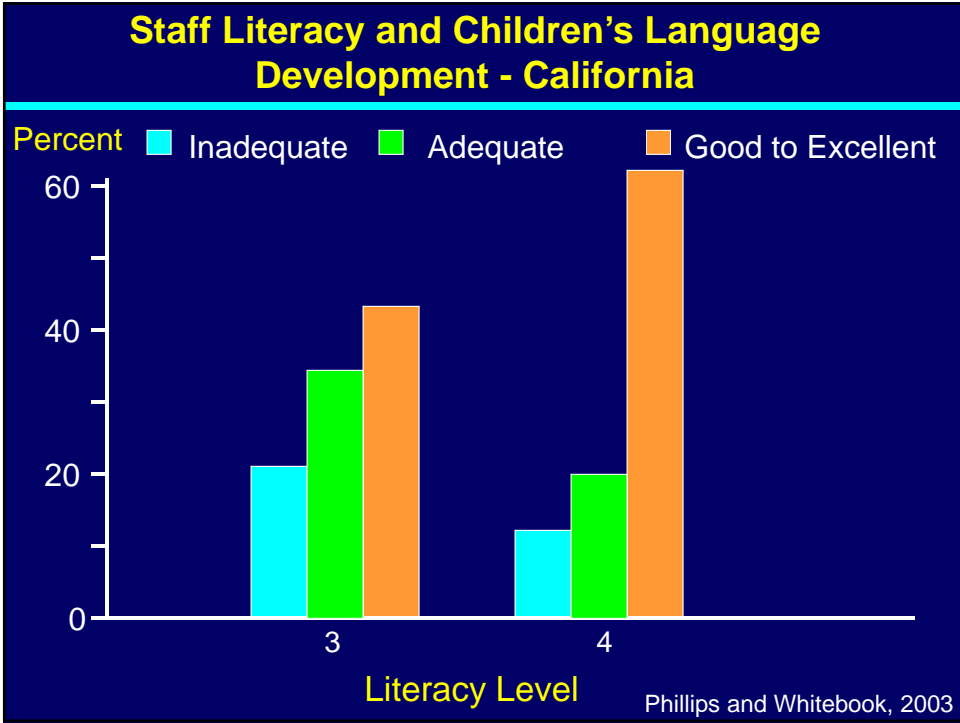
- 65% of kindergarten children are ready to start school
- 35% are vulnerable



Fonds pour le développement des jeunes enfants (financed by Govt of Québec and Fondation Chagnon) focuses on partnering family resource centres, child care, schools, health, social services, and municipalities

Day Care - Quebec

- Regulated spaces increased from 78,000 (1997) to 190,000
- Quality
 - 27% good to excellent
 - 12% inadequate
 - 61% met criteria for minimum quality



The Social Determinants of Human Development

Affects:

- Health (physical and mental)
- Learning
- Behaviour

Nature and Nurture determine development

Human Development

Scandinavian Countries

and

Cuba

Scandinavian 0-6 Programs

- Paid parental leave
- Centre-based programs
- Well trained (50% - 4 years university) and financed staff
- Publicly financed

Scandinavia and Canada

	0-6 %GDP	Parental Leave income support (months)	Govt. Ministry
Finland	1.7	12	Social Affairs and Health
Norway	1.7	12	Education
Sweden	1.9	16	Education
Canada	0.4	12	Fragmented

Scandinavia and Canada

	Child Poverty %	Adult Literacy (16-25) Level 4&5
Finland	2.8	
Norway	3.4	36%
Sweden	4.2	
Canada	15.0	23%

Sweden ECD (Preschool) and Education Expenditure

	Cost/Child	Enrollment
Preschool* (age 1-6)	\$16,500 US	2+ yrs >86% (not compulsory)
Compulsory Education (age 7-16)	\$10,500 US	Compulsory

* Maternal and parental paid leave 1-1/2 years

Skolverket 2006

Cost of a Universal ECD-P Centre Program in Canada (conception to Grade 1)

Conception to age 6

Universal (2,100,000 children)
Not compulsory

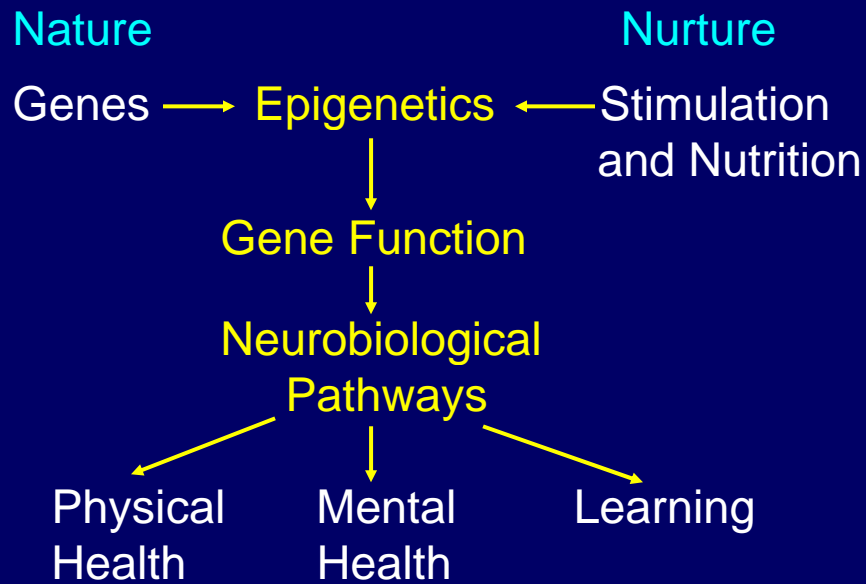
Cost about \$22.0 Billion per year (1.5%
of GDP)
(80 to 90% participation)

Present Expenditure 0.4% of GDP

Conception to adolescence

Experienced-based
neurobiological development
affects health, learning, and
behaviour throughout the life
course.

Human Development



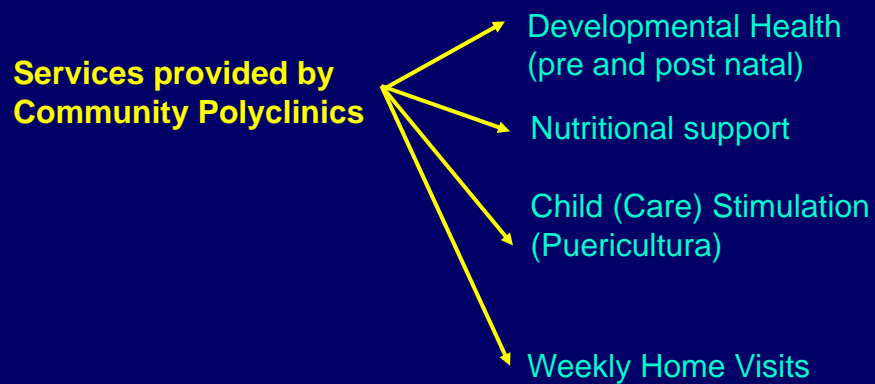
Early human development has major effects on health and learning.

Why not integrate government departments (health, education, and social services) into a ministry of human development – based on the recent neurobiological evidence.

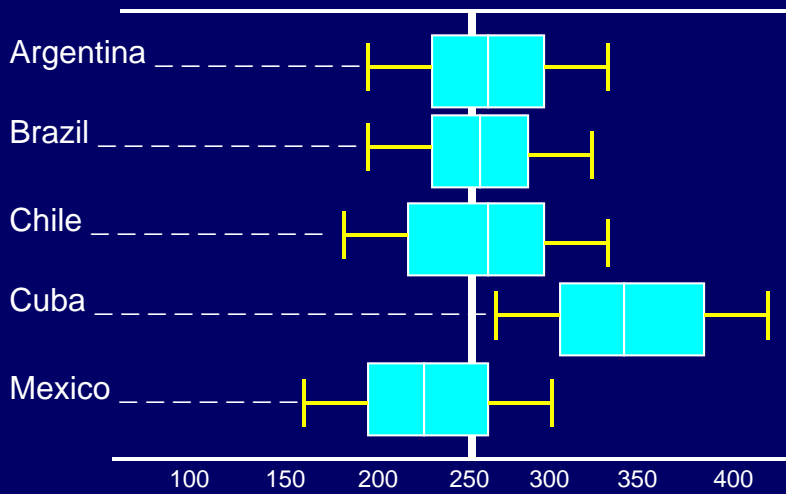
Cuba

- Developed a more integrated structure for health and early development – the polyclinics
- In terms of the health and learning of children, Cuba is outstanding

Community Polyclinics Pregnancy to Age 6

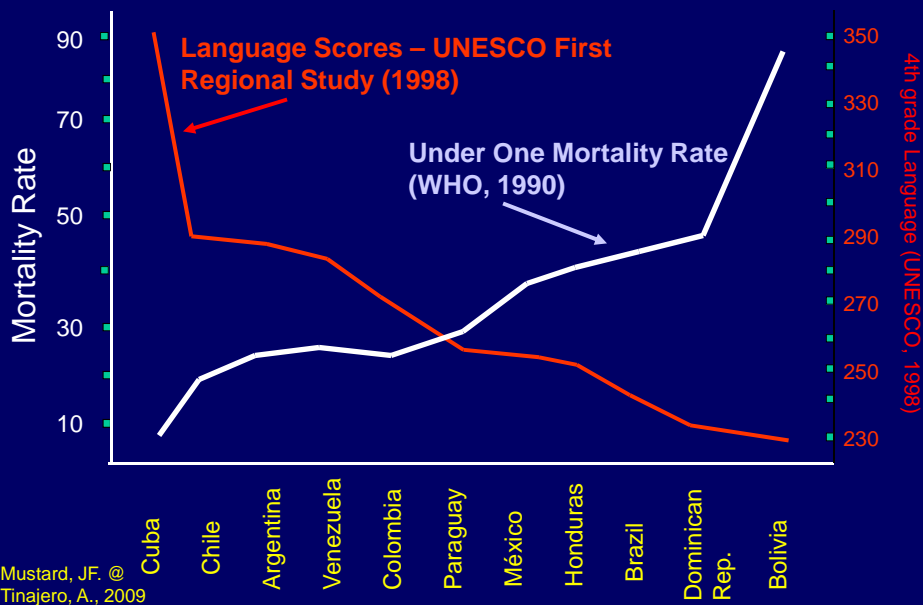


Grade 3 Language Scores



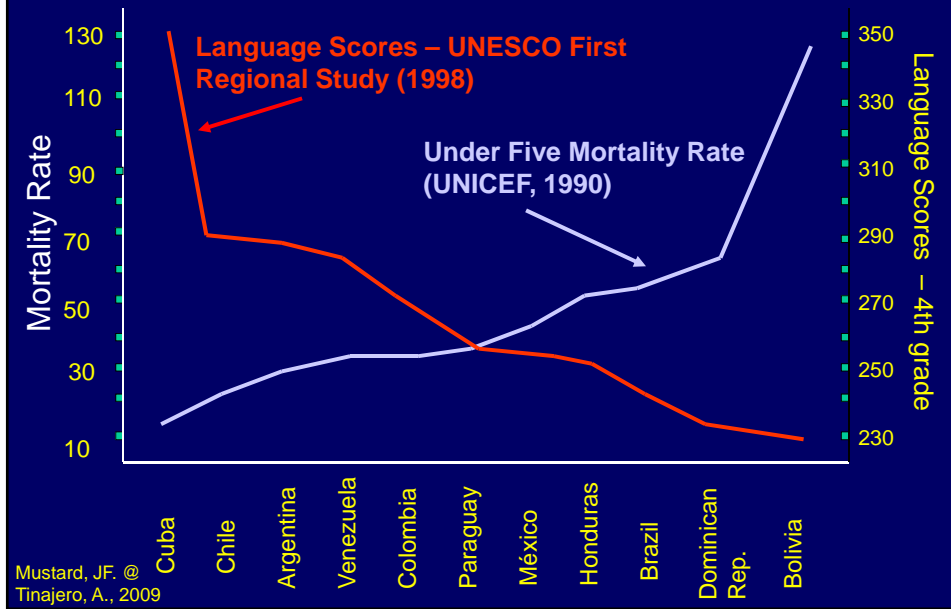
UNESCO, 1998

Health and Language Scores

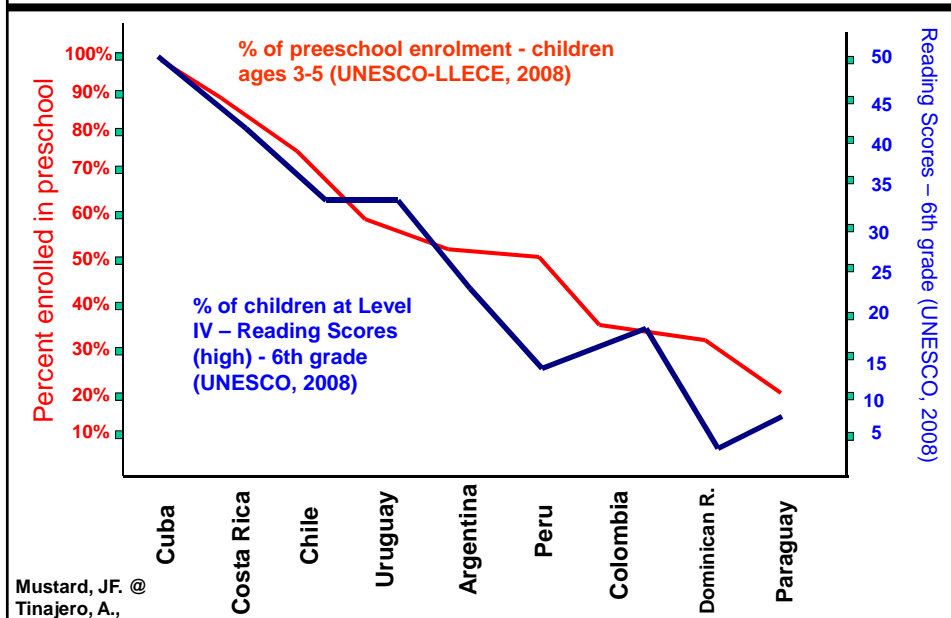


Mustard, JF. @
Tinajero, A., 2009

Health and Language Scores



Association Between Preschool Attendance and Learning



Ludwig and Sawhill – Early Child Development

- Intervene:
 Early,
 Often, and
 Effectively

Brookings Institution, 2006

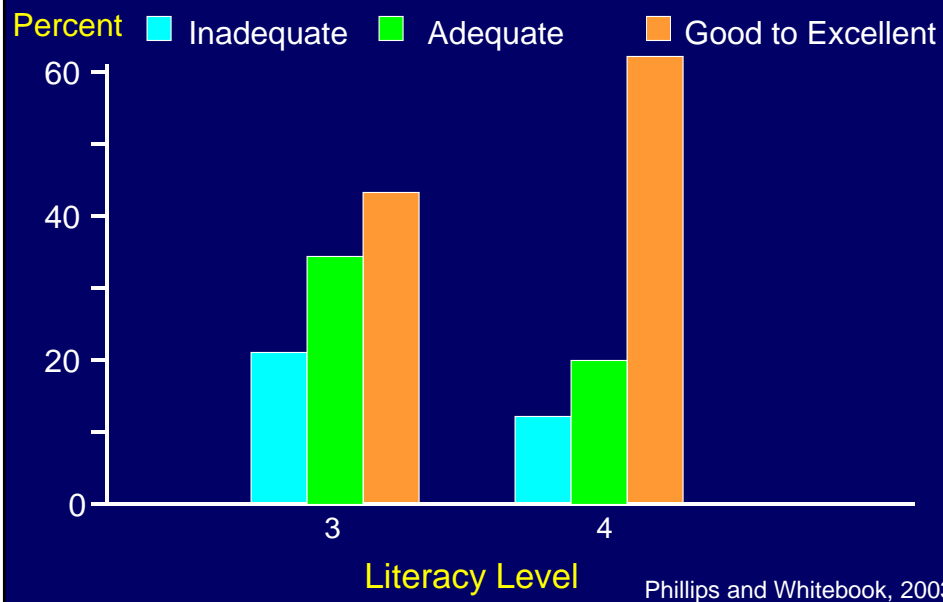
Early Child Development and Parenting Centres

- Available from pregnancy to school entry
- Provide support for parents (centres and home visits)
- Learning parenting by doing
- Provide non-parental care
- Nutrition and stimulation
- Stage 1 of human development (conception to age 6)

Qualified Competent Staff

Sweden - 50% in preschool program have 4 years university education

Staff Literacy and Children's Language Development - California



Need integrated human development education for staff in the conception to 6 age group and in primary education.

25% of education should be in developmental neurobiology (experience and epigenetics).

Cost to Individuals and Canadian Society of Poor Early Child Development (estimates)

Crime and Violence \$120 Billion/year

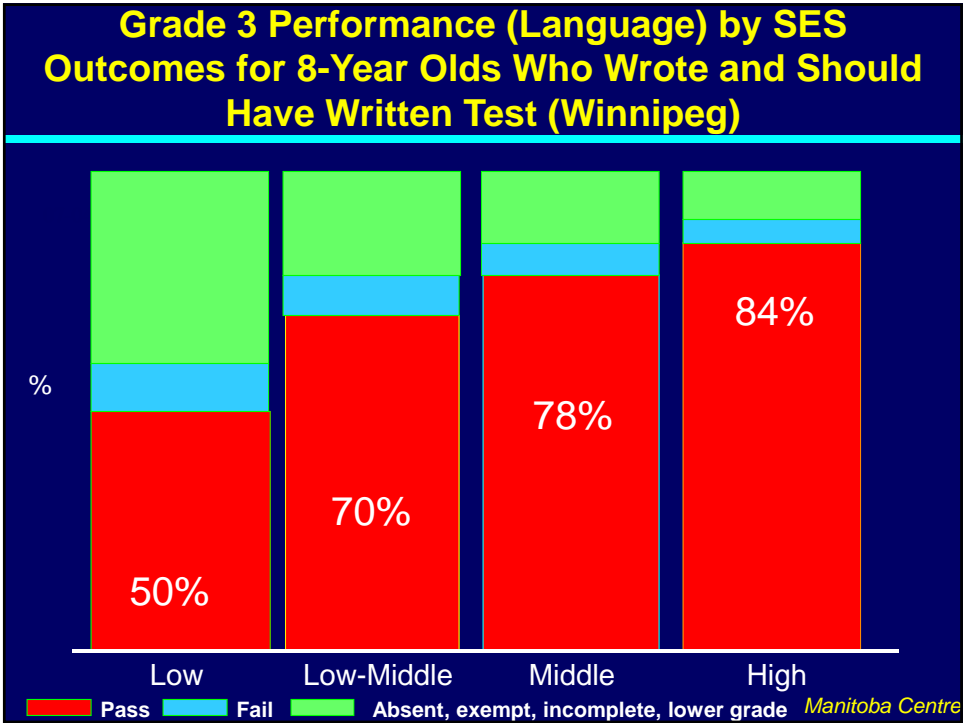
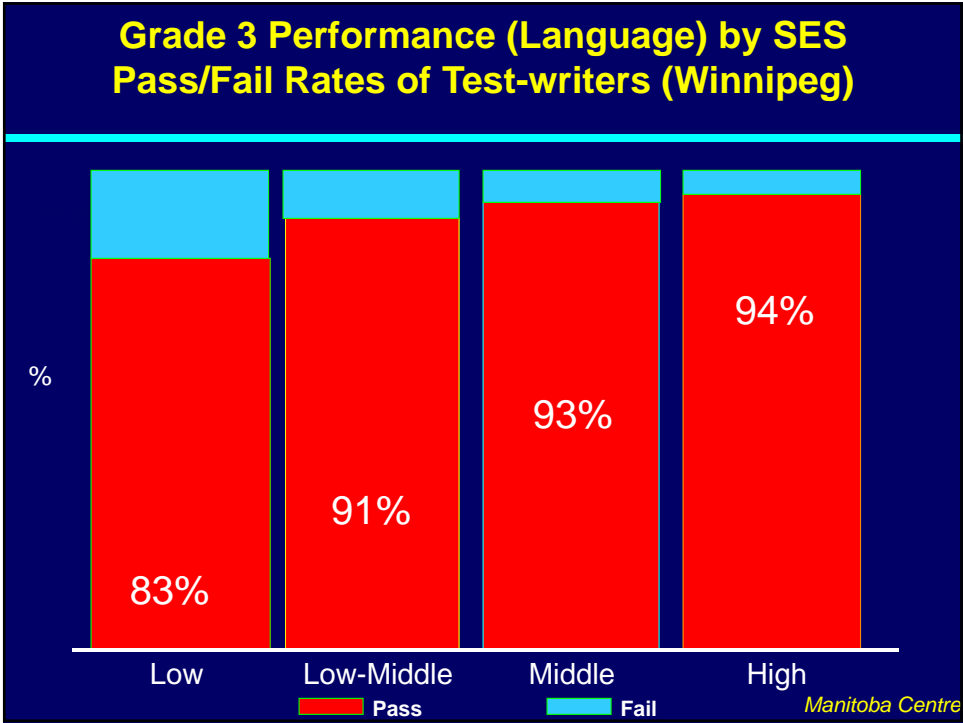
Mental Health \$100 Billion/year
Behaviour and
Alcohol and Drug Addiction

Cost of universal high quality ECD program – about \$22 billion per year (1.5% of GDP)

Creating ECD Infrastructure

- Centres as part of primary schools.
- Training staff in developmental neurobiology and developmental health and learning.
- Establish leaders (principals for integrated ECD programs and primary schools).
- Pay equity.
- Paternal paid leave.
- Publicly financed.

Integrated health and
education data system,
e.g. Manitoba



Decrease in the % of vulnerable children as a result of improved ECD in Western Australia

	Year	
	2003	2006
Floreat	47.22%	14.3%
Wembley	47.11%	11.8%

AEDI

With Our Best Future in Mind – Pascal report - Ontario

Recommendation 1:

The province should create a continuum of early learning, child care, and family supports for children from the prenatal period through to adolescence, under the leadership of the Minister of Education.

Pascal, 2009

Establish a Ministry of Human Development

- Integrate Education, Public Health, and Social programs
- Post secondary educational institutions and human development – 25% of education in developmental neurobiology

References

Mustard, J.F. Early child development and experience-based brain development: the scientific underpinnings of the importance of early child development. Washington: The Brookings Institution. 2006. Available at: wwwFOUNDERS.net

Mustard, J.F. Early human development – Equity from the start – Latin America. Latin American Journal of Social Sciences, Childhood and Youth, vol. 7, #2, July-Dec 2009. Available at: wwwFOUNDERS.net

Mustard, J.F. Early brain development and human development. In: Tremblay RE, Barr RG, Peters RDeV, Boivin M, eds. *Encyclopedia on Early Childhood Development* (online). Montreal, Quebec: Centre of Excellence for Early Childhood Development; 2010:1-5. Available at <http://www.child-encyclopedia.com/documents/MustardANGxp-Importance.pdf>.

Mustard, J.F. The effects of nature and nurture on early human development and health, behaviour and learning. Presentation at the First International Symposium in Puebla, Mexico. January 27, 2010. Available at: wwwFOUNDERS.net

www.founders.net

To download this presentation, go to:
Slides - Slide Shows