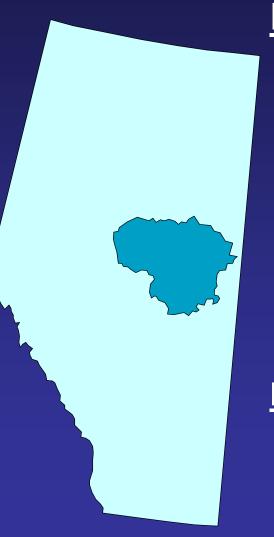
Cost of FASD

Amy Salmon, Egon Jonsson, Institute of Health Economics, Edmonton, Alberta, Canada



Comparing Lithuania and Alberta in Canada



<u>Lithuania</u> <u>Alberta</u>

Population

3 million 4 million

Area

65,000 km² 660,000

Health expenditure per capita USD 2012

860 6,000

Prevalence of FASD

For a long time it has been assumed that the prevalence is 1% of the population, and that we have about 350.000 people living with FASD in Canada

Recent research show that the prevalence is 2 - 5% in some countries

The prevalence is even higher in populations living with challenging social determinants of health

Types of costs of FASD

- Health care
- Social services
- Educational
- Legal
- Correctional services
- Out of pocket costs
- Productivity losses

Percent distribution of cost of FASD

Health care	30
Educational services	24
Social services	19
Correctional services	13
Other	14

Examples of costly health interventions for newborns with FASD

From Abel 1987, 1991; Harwood 1985; Klug 2003; Stade 2006, 2009,2009; Fuchs 2009; Thanh/Jonsson/Jacobs 2009, Jonsson 2010

- Neonatal intensive care
- Heart defects
- Spinal cord defects
- Cleft palate
- Hearing loss
- Hernia

- Kidney failure
- Hypospadias
- Hospitalizations
- Emergency room visits
- Specialist visits
- Other health care visits
- Prescription drugs

Cost of FASD in Canada 2009

In CAD

Total annual cost7.6 billion*

Life time cost per case1.8 million

Annual cost per case of FASD25,000

^{*}Source: Clarren, Salmon, Jonsson; Prevention of FASD –who is responsible? Wiley Blackwell 2011 Includes cost of health, education, social and correction services, but excludes other cost of the legal system

Annual direct cost of <u>healthcare only</u> for selected diseases and FASD in <u>Canada 2009</u>

Annual direct healthcare cost	CAD
Respiratory diseases	4.8 billion
All forms of cancer	4.7 billion
FASD	2.1 billion

Includes cost of hospitalization, physicians, and drugs.

Source: Patra J. et al., 2010 (discounted to 2009) and Clarren, Salmon, Jonsson 2010

Direct annual cost of <u>health care only</u> for selected diseases and of FASD in Alberta, 2009

CAD

Cardiovascular diseases CVD 774 million

FASD 230 million

Type 2 diabetes
156 million

Lung cancer 122 million

Source: Patra et al. 2010 (discounted to 2009) and Clarren, Salmon, Jonsson 2010

Cost of FASD in Alberta 2014

- Total cost 820 million dollars per year.
 - = 205 million dollars per million population

Total cost per individual over life time is 1.8 million dollars.

Annual cost per individual with FASD is 25,000 dollars.

The incremental life time cost is 800,000 dollars

What is the net social return on investment in prevention of FASD?

\$800,000 for each prevented case

This is what is called the opportunity cost, which demonstrates lost opportunities of investing in other needed areas.