The economics of FASD

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Canada
Population 33 million
Alberta

Area: 660,000 Sq km
Population: 3.5 million

France

Area: 675,000 Sq km
Population: 65.5 Million
The economics of FASD

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Types of costs related to FASD

- Health care
- Social services
- Educational
- Legal
- Correctional services
- Out of pocket costs
- Productivity losses
Examples of cost items related to FASD in health care


- 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
Types of costs related to FASD

- Health care
- Social services
- Educational
- Legal
- Correctional services
- Out of pocket costs
- Productivity losses
Examples of FASD related costs in social, educational, and legal services

- Criminal justice average cost of crime: 15,000
- Shelter cost of homelessness: 14,400
- Educational cost of school disruption: 8,400
- Productivity loss; cost of unemployment: 7,200
Types of costs related to FASD

- Health care
- Social services
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- Legal
- Correctional services
- Out of pocket costs
- Productivity losses
Cost of FASD in Canada 2009

- Total annual cost: 7.6 billion*
- Life time cost per case: 1.8 million
- Annual cost per case of FASD: 25,000

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
*Direct translation to population of France $ 13.9 billion
Percent distribution of costs

<table>
<thead>
<tr>
<th>Service</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health care</td>
<td>30</td>
</tr>
<tr>
<td>Educational services</td>
<td>24</td>
</tr>
<tr>
<td>Social services</td>
<td>19</td>
</tr>
<tr>
<td>Correctional services</td>
<td>13</td>
</tr>
<tr>
<td>Other</td>
<td>14</td>
</tr>
</tbody>
</table>
Annual direct cost of selected diseases and FASD in Canada in 2009

Annual direct health care 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 for each item.
Source: Patra J. et al., 2010 (discounted to 2009)
<table>
<thead>
<tr>
<th>Disease</th>
<th>Cost (CAD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular diseases</td>
<td>774 million</td>
</tr>
<tr>
<td>FASD</td>
<td>230 million</td>
</tr>
<tr>
<td>Type 2 diabetes</td>
<td>156 million</td>
</tr>
<tr>
<td>Lung cancer</td>
<td>122 million</td>
</tr>
</tbody>
</table>

Source: Patra et al. 2010 (discounted to 2009)
What is the social return on investment in prevention of FASD?

$800,000 for each prevented case
www.fasdedmonton2013.ca
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