Interactive central database of vaccinations and Hepatitis B prevention - Iceland -

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Chief of National Vaccination Program
Registration of vaccinations

• Vaccination sites
  – Health centers
  – Hospitals
  – Private physicians/subspecialists
  – Other

• Chief Epidemiologist
  – Decides the form of registration
  – No central register until 2007
Vaccination register

- Since 2007
- Electronic real time interactive central database
Central vaccination database

- All vaccinations since 2002
- Personal identifiers
- Date and Place of vaccination
- Connected with all HCC and hospitals
- Not yet connected with
  - Private offices
Central vaccination database

• **Utilization**
  – Can be linked to other databases
    • Adverse effects (ICD-10 diagnosis registers)
    • Coverage
    • Vaccine effectiveness

• **International collaboration**
  – Individual privacy issues
### National Childhood Vaccination Program
- Iceland 2012 -

<table>
<thead>
<tr>
<th>Age</th>
<th>Vaccination</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 + 5 + 12 months</td>
<td>DTaP-IPV-Hib</td>
</tr>
<tr>
<td>3 + 5 + 12 months</td>
<td>Conj. Pn</td>
</tr>
<tr>
<td>6 + 8 months</td>
<td>Conj. Men C</td>
</tr>
<tr>
<td>18 months + 12 years</td>
<td>MMR</td>
</tr>
<tr>
<td>4 years</td>
<td>dtap</td>
</tr>
<tr>
<td>12 years</td>
<td>HPV</td>
</tr>
<tr>
<td>14 years</td>
<td>dtap-IPV</td>
</tr>
</tbody>
</table>

No hepatitis B or hepatitis A vaccinations
Hepatitis prevention and control

• Hepatitis A vaccination
  – Recommendations
    • Travellers
    • IVDA
    • Homosexuals
  – Number vaccinated

<table>
<thead>
<tr>
<th>Year</th>
<th>Vaccinees</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>8.288</td>
</tr>
<tr>
<td>2008</td>
<td>7.349</td>
</tr>
<tr>
<td>2009</td>
<td>3.697</td>
</tr>
<tr>
<td>2010</td>
<td>3.879</td>
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</tbody>
</table>

Central database
Hepatitis prevention and control

• Hepatitis B active surveillance (chronic)
  – Immigrants
    • Outside EU
  – Pregnancy
    • ~25% participation
    • 3-8 HBsAg pos. per year
  – Blood donors
    • 100% participation
  – Drug abusers
    • ?participation
Hepatitis prevention and control

• Hepatitis B vaccination
  – Recommendations
    • HCW
    • Blood recipients
    • Households of hepatitis B pos. individuals
    • Travellers
    • IVDA
    • Homosexuals
<table>
<thead>
<tr>
<th>Year</th>
<th>Vaccinees</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>4.494</td>
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<tr>
<td>2008</td>
<td>4.583</td>
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<tr>
<td>2009</td>
<td>2.711</td>
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<td>2010</td>
<td>2.971</td>
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</tbody>
</table>

Central database
Hepatitis B prevention and control

• Universal childhood vaccination?
• Needle exchange program
• Improve active screening
  – Pregnant women
  – Immigrants
  – IVDA
• Improve diagnosis and registration of acute disease
• Treatment
  – Centralised
Hepatitis prevention and control

• **Hepatitis C active surveillance (chronic)**
  – Immigrant children ?
  – Pregnancy ?
  – Blood donors
  – Drug abusers

• **Needle exchange program**

• **Treatment**
  – Centralised
Thank you