

Alberta Health Services
Population and Public Health
Examples of Practice

Dr. Gerry Predy

**Senior Medical Officer of Health
Senior Medical Director**

May 2, 2011

INTRODUCTION

-
- Prevention of Invasive Bacterial Infections
 - Food Safety
 - Building Community Capacity to Address Addictions

INVASIVE BACTERIAL INFECTIONS IN CHILDREN

- Hemophilus influenza b
- Meningococcal
- Streptococcus Pneumonia



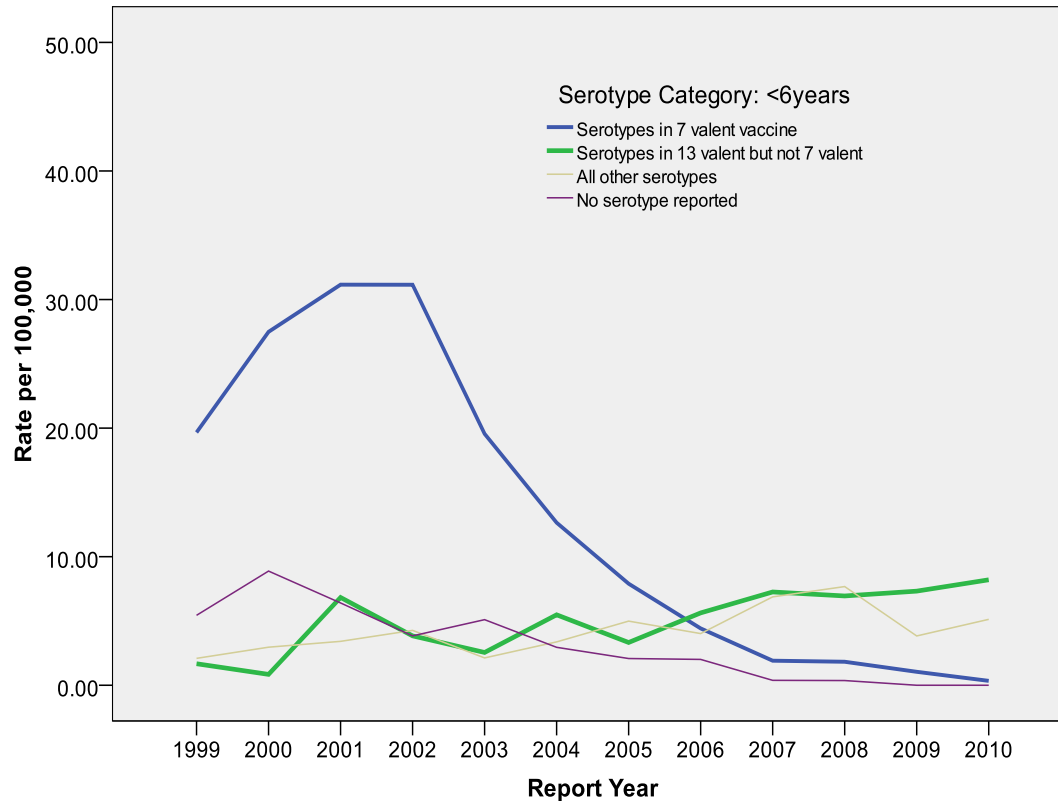
INVASIVE PNEUMOCOCCAL DISEASE

- Causes serious infections such as meningitis, blood infections and pneumonia (Many children with these infections require intensive care)
- Also common cause of ear infections in children

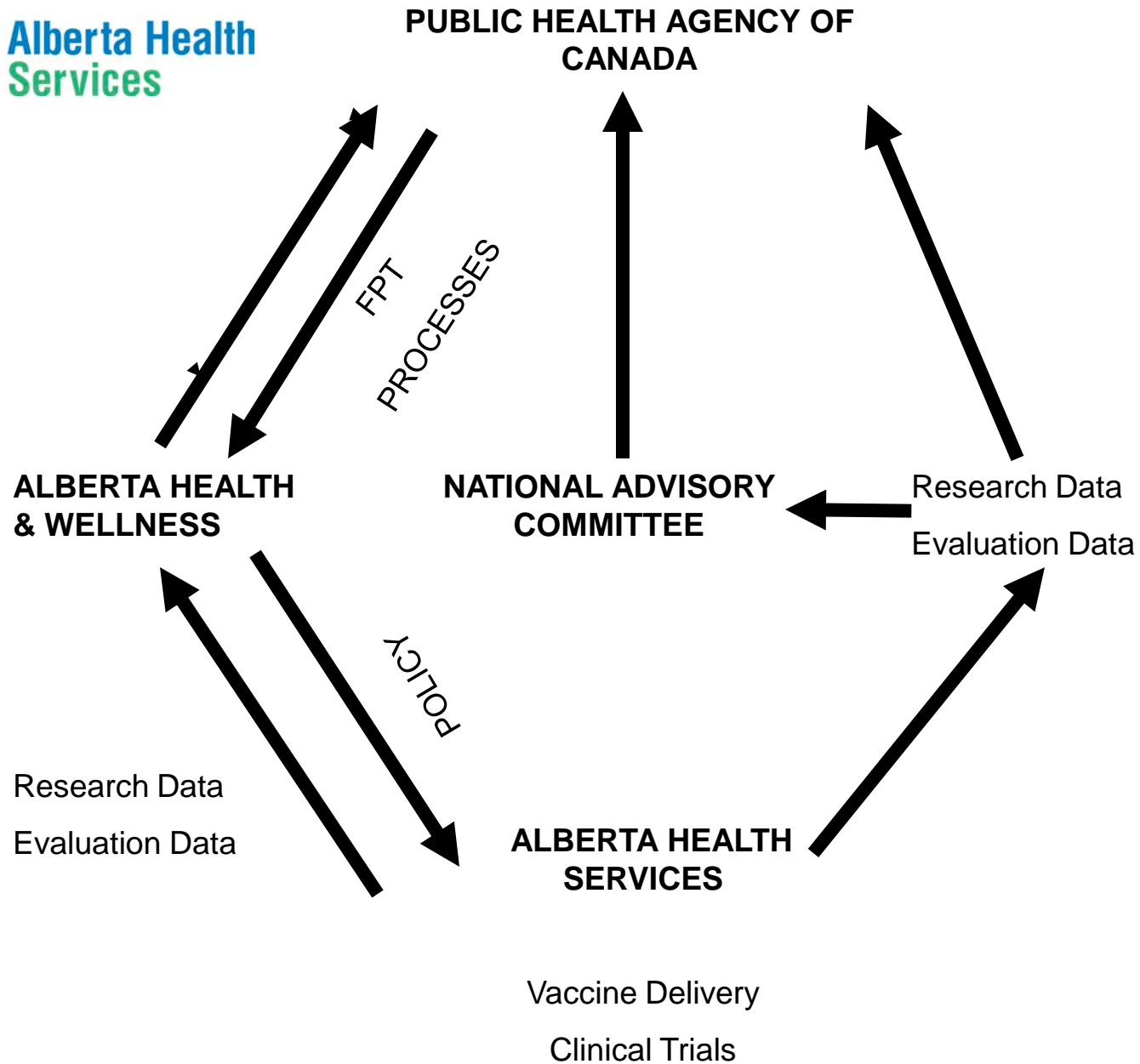
PNEUMOCOCCAL VACCINE

- Introduced in 2002
- Originally protected against 7 different strains

Table 2: Incidence rate of serotypes in Alberta by vaccine coverage category: <6 years



Since the introduction of the 7-valent vaccine in 2002, the incidence rate of serotypes covered by the 7-valent vaccine in the <6 age group have decreased from 31.5/100000 to 0.3/100000. Since 2005 there has been an increase in the incidence rate of additional serotypes not covered in the 7-valent but would have been covered by the 13-valent. These rates are expected to decrease following the introduction of the 13-valent vaccine in July 2010 as part of the routine immunization schedule. In 2010, serotype 3 and 19A exhibited the highest incident rates among those under the age of 6 years. Both of these serotypes are covered by the 13-valent vaccine.



Food Safety

- Recent Outbreak

Outcome of Investigation

- Solid epi evidence associates 51 Salmonella cases with crab cakes
- Likely contaminated at production facility
 - +ve samples from sealed boxes
 - Cross-contamination points identified
 - Inadequate cleaning/sanitation/cooking
 - Source ingredients-boiled for 10 minutes
 - Employee +ve with same Salmonella subtype as festival patrons

Outcome continued

- What went wrong?
- Two plausible theories
 - cross contamination of crab cake filling post –boiling in a meat grinder, crab cakes not thoroughly cooked afterwards
 - crab cakes contaminated by the Salmonella-infected employee

Food Safety

- Alberta Health Services
- Alberta Health & Wellness
- Alberta Agriculture and Rural Development
- Alberta Sustainable Resource Development
- Health Canada
- Public Health Agency of Canada
- First Nations and Inuit Health
- Canadian Food Inspection Agency
- Fisheries & Oceans

AHS Review of Food Safety Strategy

- Response to Auditor General Report
- Process:
 - Literature review
 - Comparison to guidelines/standards in other jurisdictions
 - Comparison of regulatory approach in other jurisdictions
 - Stakeholder interviews

Outcomes

- Auditor General Report 2005
 - only one of nine health regions meeting targets
overall provincial rate ~60%
- Performance Measure 2010
 - all zones in AHS met target with 88% of required inspections completed provincially

Community Capacity to Address Addiction

Addiction – Public Health Approaches

