

## EVIDENCE INFORMING DECISION-MAKING

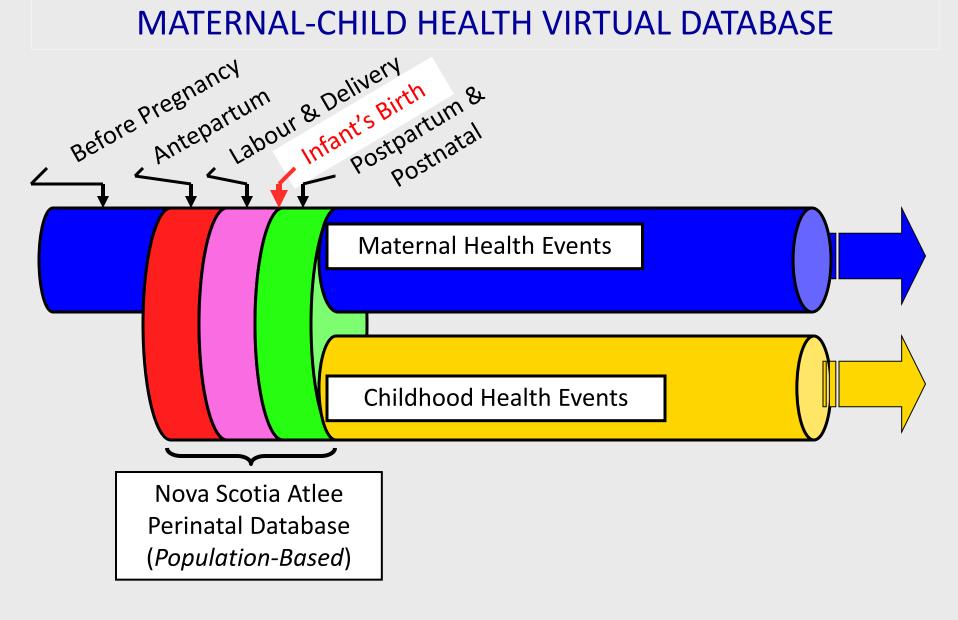
## **Focus**

STRENGTHENING LINKS REGISTRIES AND ADMINISTRATIVE HEALTH DATA

## PRESENTATION OUTLINE

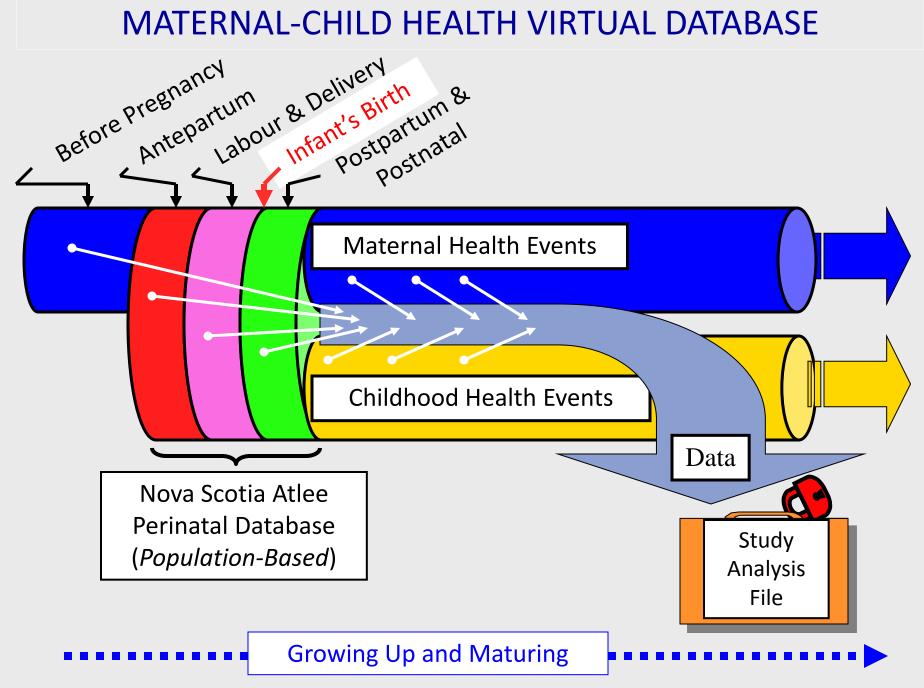
- NS Reproductive Care Program Atlee data base
- A PICTURE IS WORTH 1,000 WORDS
- Drug Safety and Effectiveness Network

## MATERNAL-CHILD HEALTH VIRTUAL DATABASE

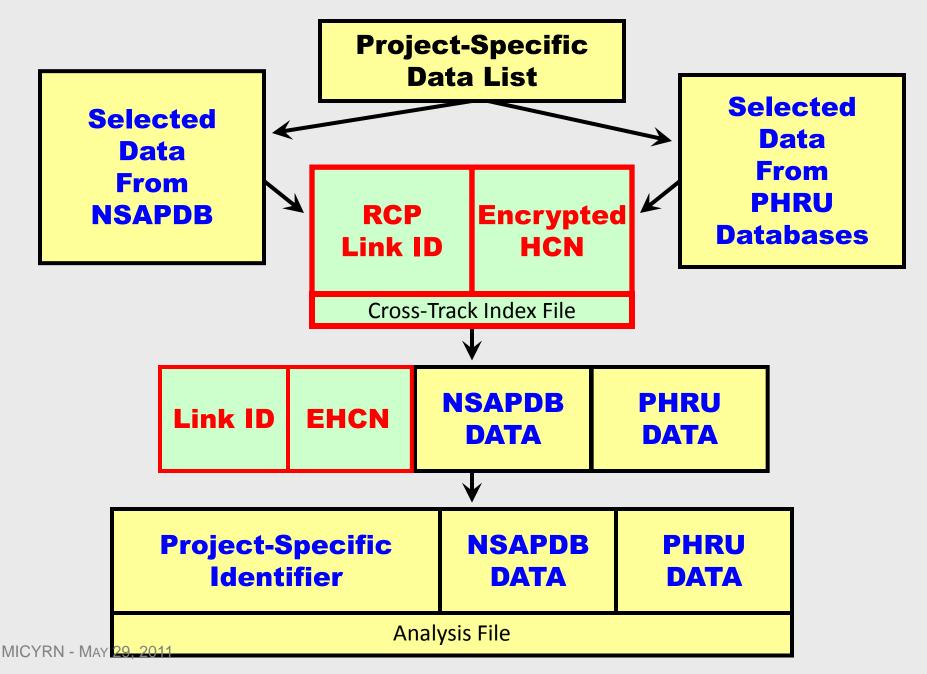


**Growing Up and Maturing** 

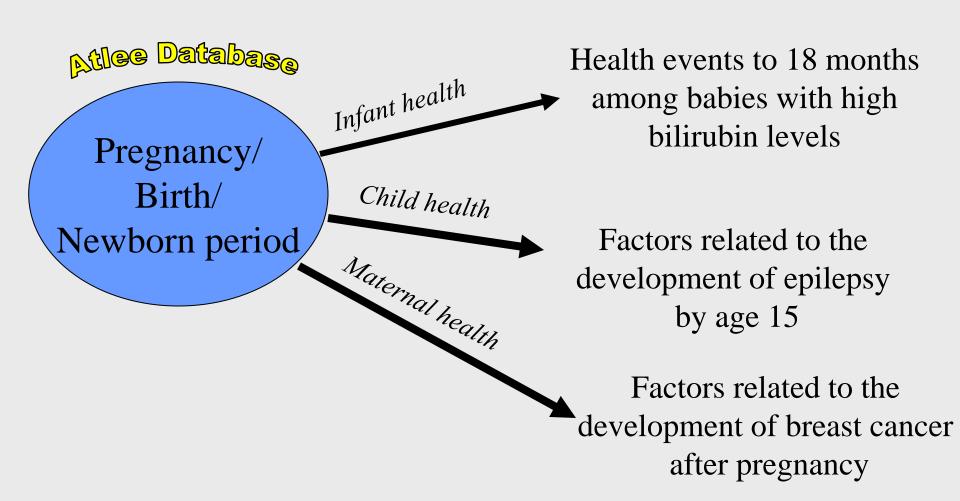
## MATERNAL-CHILD HEALTH VIRTUAL DATABASE



## **Maternal-Child Health Database**



# Maternal Child Health Database Examples of Research Projects



# OVER 80 PUBLICATIONS SINCE 1990

#### Publications Using the Nova Scotia Atlee Perinatal Database

Citation	Date Published
Allen VM, Baskett TF, O'Connell CM, McKeen D, Allen AC.	2009
Maternal and Perinatal Outcomes with Increasing Duration of	
the Second Stage of Labor. American College of Obstetrics and	
Gynecology 2009;11 3(6).	
Ferguson S, Allen VM, Craig C, Allen AC, Dodds L. Timing of	2009
Indicated Delivery After Antenatal Steroids in Preterm	
Pregnancies with Severe Hypertension. Hypertension in	
Pregnancy 2009;28(1):63-75.	
Liston FA, Allen VA, O'Connell CM, Jangaard KA. Neonatal	2008
outcomes with caesarean delivery at term. Arch Dis Child Fetal	
Neonatal Eld 2008;93:F176-F182.	
Russell KA, Allen VM, MacDonald ME, Smith K, Dodds L. A	2008
Population-Based Evaluation of Antenatal Diagnosis of	
Orofacial Clefts. Cleft Palate-Craniofacial Journal 2008;45(2).	
Baskett TF, Allen VM, O'Connell CM, Allen AC. Fetal Trauma in	2007
Pregnancy. Am J Obstet Gynecol 2007.	
Allen VM, O'Connell CM, Baskett TF. Cumulative Economic	2006
Implications of Initial Method of Delivery. American College of	
Obstetrics and Gynecologists 2006;108(3).	
Allen VM, O'Connell CM, Baskett TF. Maternal Morbidity	2006
Associated with Cesarean Delivery Without Labor Compared	
with Induction of Labor at Term. American College of Obstetrics	
and Gynecologists 2006:108(2).	
Basket TF, Allen V, O'Connell C, Allen A. Predictors of	2006
Respiratory Depression at Birth in the Term Infant. BJOG	
2006;113:769-774.	
Dodds L, Fell DB, Joseph KS, Allen VM, Butler B. Outcomes of	2006
Pregnancies Complicated by Hyperemesis Gravidarum	
American College of Obstetricians and Gynecologists	
2006;107(2).	
Dugandzic R, Dodds L, Stieb D, Smith-Doiron M. The	2006
Association between low level exposures to ambient air	
pollution and term low birth weight: a retrospective cohort	
study. Environment Health: A Global Access Science Source	
2006;5(3).	
Fell DB, Dodds L, Joseph KS, Allen VM, Butler B. Risk Factors	2006
for Hyperemesis Gravidarum Requiring Hospital Admission	
During Pregnancy. American College of Obstetricians and	
Gynecologists 2006;107(2).	
Joseph KS, Dodds L, Allen AC, Jones DV, Monterrosa L,	2006
Robinson H, Liston RM, Young D. Socioeconomic Status and	
Receipt of Obstetric Services in Canada. The American	
College of Obstetricians and Gynecologists 2006;107(3).	

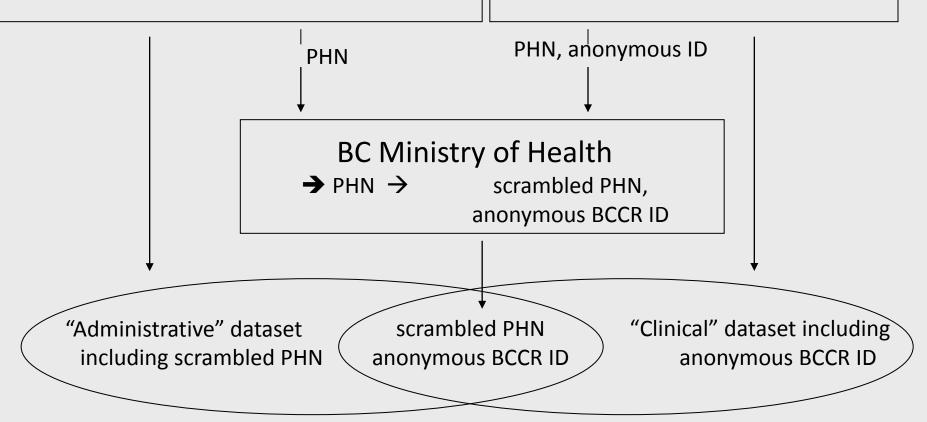
# **DATA LINKAGES**

#### BC Linked Health Database - BCLHD

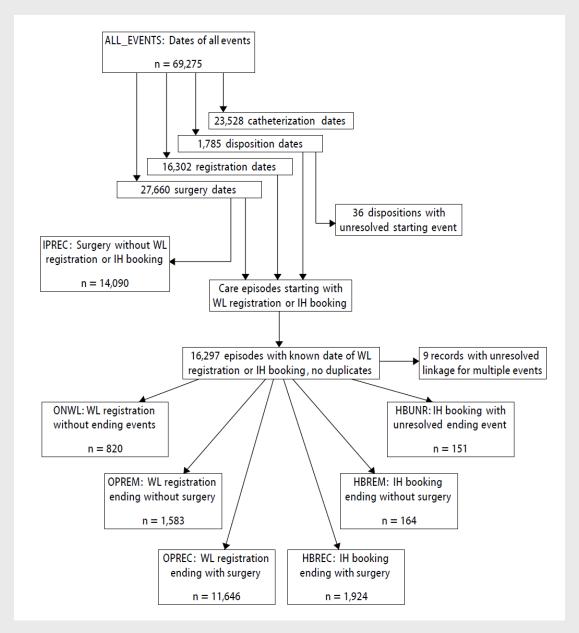
Sampling frame: All records of CABG in BC 1/04/1990 – 31/3/2006, hospital procedure codes & MSP billing codes

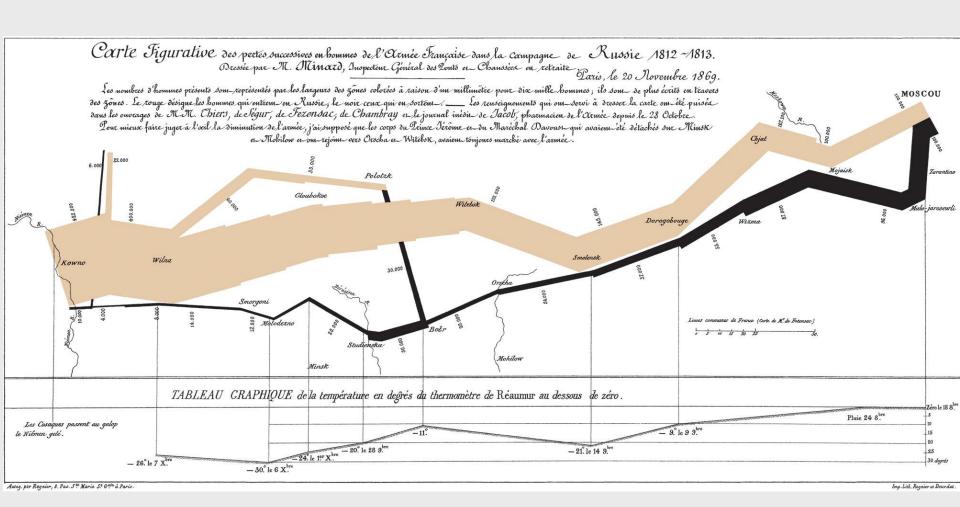
## BC Cardiac Registries - BCCR

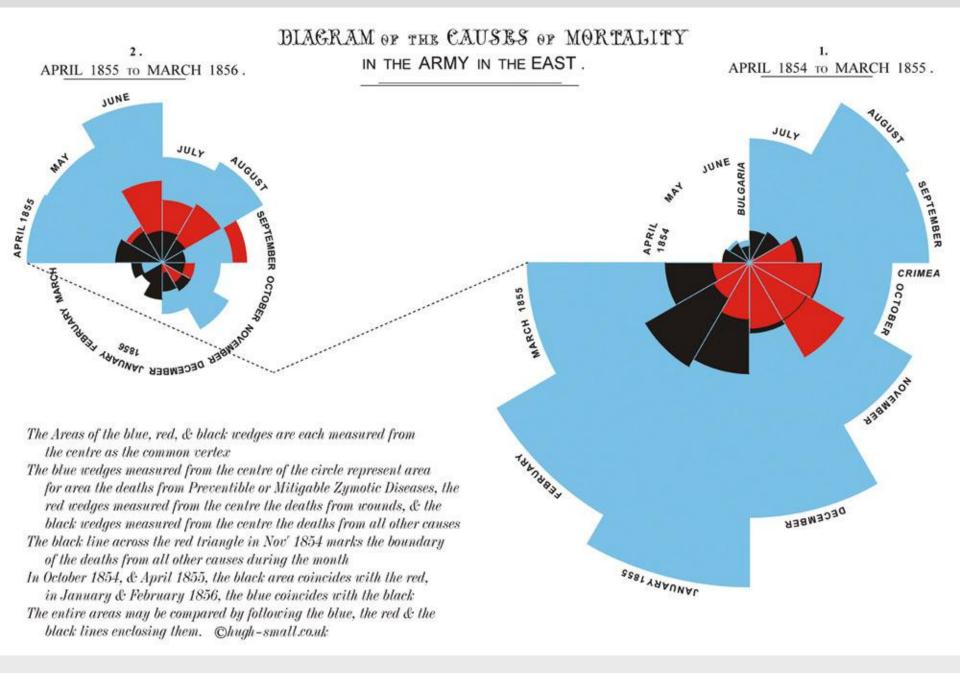
All operative records of CABG 1989 – 2006 done in BC. Created anonymous ID, PHN



# **DATA LINKAGES**







#### Drug Safety & Effectiveness Network - Program Objectives

#### Drug Safety and Effectiveness

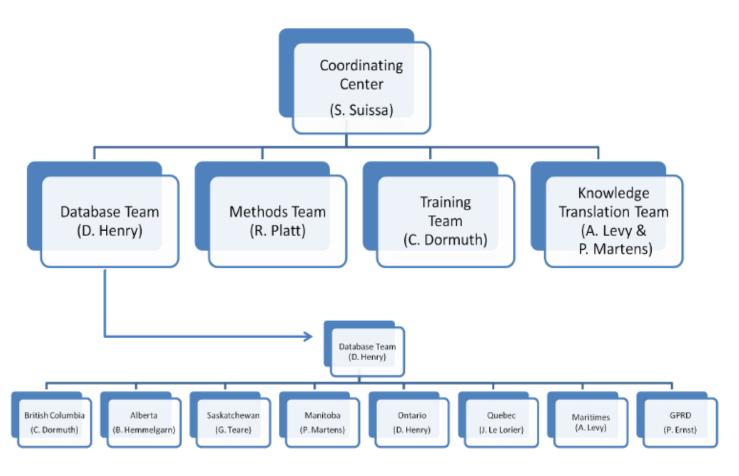
- Increase the evidence on drug safety and comparative effectiveness available to regulators, policy-makers, health care providers and patients
  - Fill gaps in knowledge required to make evidence-based decisions about drugs
- Increase capacity within Canada to undertake high-quality postmarket studies of drugs' safety and effectiveness
  - Leverage greater value from existing investments in post-market research within Canada
  - Strengthen training in appropriate research methodologies

### **DSEN**

- RETROSPECTIVE STUDIES
  - DATABASE ANALYSIS
  - SYSTEMATIC REVIEWS AND MIXED TREATMENT COMPARISONS
- Prospective studies
  - PRAGMATIC TRIALS
  - BAYESIAN ADAPTIVE TRIALS

#### APPENDIX 2 - Organization Chart

# Canadian Network for Observational Drug Effect Studies (cNODES)



#### **TEAM FUNCTIONING**

#### COORDINATING CENTRE

- Functions as Oversight for Network
- INTAKE POINT FOR ALL QUERIES
- ESTABLISHES APPLICATIONS TEAM FOR EACH QUERY FROM INVESTIGATIVE GROUP
- Leads Publication Committee
- COMMUNICATES WITH DSEN
- PLANNING MEETINGS FOR CNODES INVESTIGATORS
- COORDINATION FOR INVESTIGATOR MEETINGS, Mailings, Scheduling of conference calls

#### **APPLICATIONS**

- IDENTIFIES REQUIRES BIBLIOGRAPHICAL RESOURCES
- Develops software requirements for literature review
- Undertakes literature review
- Hires and supervises appropriate staff
- Develops and executes statistical analysis plan
- Leads dissemination including writing of publication and conference presentation

#### **TEAM FUNCTIONING**

#### **METHODS**

- CONTRIBUTES TO APPLICATIONS TEAM
- SITUATES APPLICATION INTO CORPUS OF METHODOLOGICAL LITERATURE
- IDENTIFIES NOVEL METHODOLOGICAL QUESTIONS
- Liaises with Coordinating office to decide which questions are developed
- DEVELOPS AND IMPLEMENTS STATISTICAL ANALYSIS PLAN FOR METHODS
- Manages sharing of results

#### KT

- PUBLICATION PLANS
- DISSEMINATION PLANS FOR CONFERENCE PRESENTATIONS
- DISSEMINATION PLANS FOR PUBLIC ANNOUNCEMENTS
- LIAISING WITH OTHER SIMILAR ORGANIZATIONS IN OTHER JURISDICTIONS
- LIAISING WITH FEDERAL REGULATORY AGENCIES AT HEALTH CANADA
- LIAISING WITH PROVINCIAL AND TERRITORIAL MINISTRIES OF HEALTH
- LIAISING WITH PHARMACY ORGANIZATIONS FOR DISSEMINATION OF INFORMATION

#### **TEAM FUNCTIONING**

#### **TRAINING**

- DEVELOPS AND OFFERS COURSES IN SYSTEMATIC REVIEWS, META-ANALYSIS AND MIXED TREATMENT COMPARISONS
- LINKS WITH OTHER DSEN NETWORKS AND OTHER EXISTING TRAINING GROUPS RELATED TO THE MISSION INCLUDING SYSTEMATIC REVIEWS, META-ANALYSIS AND MIXED TREATMENT COMPARISONS OTHER COURSES IN THE NETWORK, INCLUDING PHARMACOEPIDEMIOLOGY, ADAPTIVE TRIAL DESIGNS, AND OTHERS
- Develops "Brief Modules for Clinicians and Decision-Makers"
- OFFERS SUPPORT FOR GRADUATE STUDENTS ENGAGED IN NETWORK RELATED RESEARCH

