

Department of Health



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Nova Scotia Department of Health Data Catalogue

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Introduction

This catalogue is designed to provide information about databases associated with the Nova Scotia health care system. The Department of Health maintains several of these databases, and, other organizations also hold important information sources. An overview of the types of information they contain, time periods covered, access processes, and whether there are regular reports associated with the database are included.

The information is presented in four main sections: Department of Health Administrative Databases organized by Branch, Departmental Survey Databases, Miscellaneous Databases, and Other Health Care System Databases.

- Department of Health Administrative Databases are used by those in the health care field to assess the use of specific services, help predict the need for services in the future, monitor the health of the population over time, assist in business planning, and to audit the money spent on health services in the province.
- Department of Health Survey Databases are separate databases generated by surveys that have been conducted by or for the Department. These tend to provide a snapshot of specific health indicators and health status measures.
- Miscellaneous Databases are other sources of data about the health of Nova Scotians, created and/or maintained by other government agencies (Statistics Canada) or not-for-profit organizations (Canadian Institute for Health Information), or compiled for special projects.
- Other Health Care System Databases are those databases created and housed by others in the health care system that track service

utilization and health statistics on an ongoing basis.

Time frames are given for when data collection began; however, concerns may arise regarding the quality and consistency of data. The type and amount of data collected in the beginning of a program/project can be different from that collected as time goes on, especially if the data have been collected over many years.

Department of Health Administrative Databases (By Branch)

Purpose:

Track resource utilization for budget and service planning, as well as provide information for population health indicators and health status measures.

Population Health and Primary Care

Database Cardiac Arrest Intubation Database (CAINT)

(formerly "CodeStat")

Time Frame 2003 to Present.

Purpose This database holds all information regarding Out-of-Hospital

Cardiac Arrests (Out-of-Hospital Cardiac Arrest is defined as any patient who has no pulse and is not breathing in the

pre-hospital setting) and attempted intubations

Brief
Description of
Contents

Cardiac Arrest PCRs are securely faxed to the EHSNS Burnside office within 24 hours of the event's occurrence, read for errors, and entered into CAINT manually. This data set and three others form the backbone of EHSNS reporting

and its supporting data and information system.

Who, Where and How...

Source: Cardiac Arrest Patient Care Reports (PCRs)
Owner: Emergency Health Services Nova Scotia,

Department of Health (DoH)

Custodian: Emergency Health Services Nova Scotia, DoH

Contact: Research and Statistics Officer, Medical

Oversight, Emergency Health Services (Burnside Office), DoH

Reports

This database is linked with the QA Database, Computer Aided Dispatch Database (CAD), and Paramedic Registry Database to produce reports on Survival of Out-of-Hospital Cardiac Arrests, Utstein Flow Diagrams, Provincial and

Regional Comparisons of Cardiac Arrest Rates, etc. via the QA Reportgenerator as well as reports on endotracheal intubations.

Comments

much better than the previous database (Codestat).

Database Paramedic Registration Database

Time Frame 1999 to Present.

Purpose The registration database exists primarily to house all

demographic and registration level information on paramedics.

Brief
Description of
Contents

All demographic and certification related information on currently registered paramedics serving within the Emergency Health Services Nova Scotia pre-hospital health care system. Fields include: name, address, paramedic identification number, and level of training (i.e. P-I, II, III, EMD, or CCP).

Who, Where and How...

Source: Paramedic Registrations

Owner: Emergency Health Services Nova Scotia,

Department of Health (DoH)

Custodian: Emergency Health Services Nova Scotia, DoH Contact: Registrar, Emergency Health Services (Bedford

Office), DoH

Reports

Reports the status of paramedics' registrations, as well as their on-going training. Linked with the QA Database, Computer Aided Dispatch Database (CAD), and CodeStat® Cardiac Arrest Database to produce reports on Intubation success by Paramedics, IV Access by Paramedics, Medication Usage,

Intubation by Paramedic Level, etc. via the QA

Reportgenerator.

Database Computer Aided Dispatch Database (CAD)

Time Frame 1999 to Present.

Purpose The CAD primarily aids in the dispatch of emergency vehicles

and personnel (assets) where needed in Nova Scotia as well as providing scripted instructions for management of medical

emergencies.

Brief Description of Contents

This database holds all the information from all dispatched calls for the entire EHS pre-hospital care system. It assigns each call a Master Incident Number (MIN), records and time stamps the system's operations, including: chief complaint of the patient(s), location of the call, times to the scene, patient, departure, and arrival at hospital. EHS receives quarterly reports as well as data 'dumps' which, in linking with other EHS data sets, provide the back bone for our continuous

quality reporting.

Who, Where and How...

Source: 911-E (ANI/ALI) and Direct Calls

Owner: Emergency Health Services Nova Scotia,

Department of Health (DoH)

Custodian: Emergency Medical Care, Inc.

Contact: Del Kenley, Emergency Medical Care, Inc.

Reports

The CAD produces operational reports including several that are used to measure compliance of the ground ambulance contractor with the performance contract. It also provides data for the Medical Director's Dispatch QA Quarterly Reports. The CAD database is linked with the QA Database, Cardiac Arrest and Intubation (CAINT) Database, and Paramedic Registry Database to produce reports, including: the

Continuous Quality Improvement (CQI) flow-chart via the QA

Reportgenerator.

Comments Has the ability to track outbreaks of specific medical

complaints essentially in real time.

Database Addiction Services

Time Frame Beginning in 1990, with varying levels of data collection.

Purpose Reports on client use of programs and services in each of the

DHA's.

Brief
Description of
Contents

Basic demographic information such as client ID, address, birth date, gender, and health card number, as well as clinical

information such as ongoing assessments and service

information (type of treatment program and type of addiction).

Who, Where and How...

Source: Intake workers

Owner: Department of Health (DoH)

Custodian: Capital District, Addiction Prevention and

Treatment Services

Access: Contact Director Addiction Services in each DHA

Reports Quarterly and annual reports.

Comments Regional information is uploaded to Capital District office

(Dartmouth) where complete information is stored.

Database Public Health - Enhanced Vision Screening

Program (EVSP)

Time Frame Will be collected from 2004 onward.

Records vision testing results for pre-school children at school **Purpose**

entry and tracks referred children.

Brief

Description of Contents

Basic demographic information such as client ID, address,

birth date, gender, and health card number as well as screening

results and follow up information.

Who, Where

Source: Owner: and How...

Public Health Nurses

Office of Health Promotion

Custodian: Public Health

Access: Contact Health Enhancement Coordinator, Public

Health

Reports To be determined.

Comments Written records data 1986 - 1996.

Data from 1997 - 2004 does not exist.

Financial Services Branch

Database Reciprocal Billing (Hospital services)

Time Frame 1989 to present.

Purpose Tracks financial payments for hospital and medical services

provided to Nova Scotia residents treated outside the province and country as well as recording the treatment of nonresidents

at Nova Scotia hospitals.

Brief Description of

Basic patient and provider information such as client ID, address, birth date, gender, and health card number as well as procedures, hospital services, costs, etc.

Who, Where and How...

Contents

Source: Hospital claims

Owner: Department of Health (DoH)
Custodian: Revenue Recovery Section, DoH

Access: Contact Director, Revenue Recovery, DoH

Reports Annual reports.

Database Canadian MIS Database

(formerly "Annual Hospital Survey")

Time Frame 1932 to present.

Description of

Contents

Purpose Financial, statistical and operational data for health service

organizations.

Brief An integrated database of financial, statistical, and operational

activity of health service organizations in Nova Scotia. The information is reported by service area. The financial data contained in these returns is post-audit and includes balance

sheet information.

Who, Where Source: District Health Authorities & IWK Health Centre

and How... Owner: Statistics Canada Custodian: CIHI, Ottawa

Access: MIS Advisor, Financial Services

Department of Health

Reports Specialized reports currently available from CIHI for a fee. See

CIHI catalogue or website http://www.cihi.ca/ for details.

Comments Data flows from the DHAs and IWK to the DoH MIS

Database to CIHI.

Database Management Information Systems (MIS)

Time Frame 2001/2002 Fiscal Year to present

Purpose Provides an integrated approach to managing financial,

statistical and operational activity related to the operations of health service organizations. Information is reported at a functional centre level, to be used for budgeting and planning purposes, assessing and monitoring health care expenditures to improve the effectiveness and efficiency of health service organizations through better information and measures of

productivity.

Brief
Description of
Contents

Provides detailed financial and statistical data on the nine District Health Authorities and the IWK. The database is based on CIHI's MIS Guidelines and will populate their Annual

Hospital Survey.

Who, Where and How...

Source: District Health Authorities & the IWK

Owner: Department of Health (DoH)
Custodian: Financial Services, DoH

Contact: MIS Advisor

Reports Reporting of Corporate Health Indicators; Provincial Comparative

Service Reports, Budget to Actual Variance Analyses,

Performance Indicators, Service Costing, Human Resource

Worked and Benefit Hours and Costs, etc.

Comments This is a re-developed version of the old MIS Form-12 Semi-

Annual Reporting System. The web based database includes edit

checks for data quality, and quarterly data submissions of financial/statistical accounts by month of the fiscal year.

Information Management Branch

Database Discharge Abstract Database (DAD)

(Inpatient and Day Surgery Hospital)

Time Frame DAD system: April 1995 to present.

A/S/D system: October 1991 - March 1995.

A/S system: 1979 - September 1991.

HIC system: 1970-78.

Purpose Tracks hospital utilization by reporting on inpatient and day

surgery hospitalizations.

Brief Description of

Contents

Basic demographic information such as client ID, address, birth date, gender, and health card number, as well as hospital of treatment, diagnoses and procedures, length of stay, admission

category, CMG, RIW etc.

See appendix for a more detailed list of data fields.

Who, Where and How...

Source: Hospitals

Owner: Department of Health (DoH)

Custodian: Canadian Institute for Health Information (CIHI)
Access: Written requests to Director, Information Analysis

and Reporting, DoH

Comments Data are used for multiple quarterly and annual reports on

hospital services utilization and health care indicators.

Database National Ambulatory Care Reporting System

(NACRS)

(Emergency Room and Ambulatory Hospital Data)

Time Frame IWK fiscal 2003/04 and DHA 1 October 2003 to March 31,

2004

Purpose Tracks hospital-based ambulatory care by reporting on

demographic data, clinical data, administrative data, financial

data and service-specific data elements for day surgery,

emergency and ambulatory clinics.

Brief
Description of
Contents

Basic demographic information such as health card number, postal code, residence code, gender, birth date, MIS functional centre, highest level of education, as well as hospital treatment such as arrival date and time, triage date and time, decision to admit date and time, main problem, intervention, disposition and

service provider, etc.

See appendix for a more detailed list of data fields.

Who, Where and How...

Source: Hospitals

Owner: Department of Health (DoH)

Custodian: Canadian Institute for Health Information (CIHI)
Access: Written requests to Director, Information Analysis

and Reporting, DoH

Comments Currently, data submission to NACRS has been mandated in

Ontario for ER, Day Surgery, Dialysis, Cardiac Catheterization and Oncology. Some facilities in B.C., the Yukon, P.E.I and

Nova Scotia are also submitting data.

Database Comparable Health and Health System Indicators

Time Frame

Bi-annual Federal/Provincial/Territorial initiative on comparable health

and health system reporting to the public

Purpose

Directed by the First Ministers' Accords of 2001 & 2003, comparable reporting on health and health system indicators across the country. Provinces, territories, Health Canada, Statistics Canada and Canadian Institute of Health Information work together to identify a set of common, comparable indicators for each jurisdiction to report on to its public. Provides common indicators of health status and health system

performance in each jurisdiction.

Brief Description of Contents

2002: 67 indicators thematically grouped by Health Status (life expectancy, infant mortality, etc.) Health Outcomes (mortality, incidence, survival, disease incidence) Quality of Service (access to 24/7 care, patient satisfaction)

2004: 125 indicators thematically grouped by Primary Health Care, Home Care, Catastrophic Drugs, Diagnostic & Medical Equipment, Healthy Canadians, Health Human Resources. Includes many of the original 67 areas plus new indicators and indicator areas.

Who, Where and How...

Data Source: Statistics Canada, CIHI, Health Canada, NS data - Cancer

Care Nova Scotia, Cardiac Care, Home Care

Report Source: NSDoH

Owner: Report: NSDoH Data: Original data sources
Custodian: Report: NSDoH Central Sites: CIHI, Stats Can

Access: Public Access

Reports

Central Data Sites:

http://www.statcan.ca/english/freepub/82-401-XIE/2002000/index.htm

http://secure.cihi.ca/cihiweb/dispPage.jsp?cw_page=prtwg_2004_e

Nova Scotia Reports:

2002: http://www.gov.ns.ca/health/pirc/Default.htm

2004: http://www.gov.ns.ca/health/reports.htm#measure

Comments

Data Sites provide comparable data from other jurisdictions. Free public access. Data currency dependant on data source. Nova Scotia 2004 Reports & 2002 Highlight reports are intended for broad public readership and information.

Medicare **Database**

Time Frame New MSI Information System began in July 1996 as the

> previous mainframe system was phased out. Some patient history (back to 1988) information exists in the new system*.

Purpose Database of medical service claims.

Brief Contents

Each insured service performed by a physician, optometrist or Description of prosthetist is captured. The service provided, diagnosis code,

service location, date, provider information, payment information, payment responsibility and beneficiary

demographics are recorded. Provider information includes client ID, type, number, age, address, payment amounts and

types, services performed, and business arrangements.

Who, Where and How...

Source: Physician/optometrist/prosthetist claims

Department of Health (DoH) Owner:

Custodian: Atlantic Blue Cross Care (ABCC)

Written requests to Twyla Taylor, ABCC Access:

Comments

*Data storage and retrieval systems have changed over time and access to historical data may be cumbersome. Data subsets include information on alternate funding arrangements and an

MSI provider list.

Mental Health and Insured Services

Database Denticare

Time Frame 1988* to present.

Purpose Tracks claims for children's oral health and dental surgery

services.

Brief Dentist's ID, address, gender, amount paid by service codes,

Description of number of services and units, remuneration method, etc.

Contents

Who, Where Source: Dentist and dental surgeon claims

and How... Owner: Department of Health (DoH)

Custodian: Atlantic Blue Cross Care (ABCC)/Quikcard

Access: Written requests to Twyla Taylor, ABCC

Reports Regular and ad hoc reports.

Comments *Data storage and retrieval systems have changed over time and

access to historical data may be cumbersome.

Database Health Card Registration

New Health Card numbers were issued beginning in April 1994 Time Frame

and the new Registration System came online in September

1995.

Purpose Maintains a list of Nova Scotia residents who are eligible* for

insured health care services (Medicare, Pharmacare, Denticare,

etc.). Identifies insured individuals and tracks beneficiary

movement throughout the province.

Brief

Contents

Basic demographic information such as client ID, address, birth Description of date, gender, health card number and status, program eligibility

(medicare, optometry, seniors & community services

pharmacare, denticare, prosthetics) and organ donor status

information.

Who, Where and How...

Eligible* Nova Scotian residents Source:

Owner: Department of Health (DoH)

Custodian: Atlantic Blue Cross Care (ABCC)

Access: Written requests to Twyla Taylor, ABCC

Comments

*Does not include 100% of Nova Scotian population: e.g.

RCMP and Armed Forces personnel are excluded. The health card number provides a unique lifetime identifier used whenever

insured health care services are provided.

Database Mental Health - Outpatient Information System

(MHOIS)

1993/94 to present. Time Frame

Tracks the client use of mental health outpatient services to **Purpose**

measure client-service needs and program priorities.

Brief Contents

Basic demographic information such as client ID, address, birth Description of date, gender, and health card number as well as information about their health care services, specialty care provider,

diagnoses, treatments and the episodes of care.

Who, Where and How...

Source: Clinicians (Primarily nurses, social workers,

psychologists, psychiatrists, occupational

therapists)

Owner: Department of Health (DoH)

Information Technology Section, DoH Custodian:

Access: Director, Mental Health, DoH

Reports Web based Cognos reporting for authorized users.

Database Pharmacare

Time Frame Mainframe 1974 - 1994*.

New online Pharmacare system from January 1995. Records of claims back to 1991/92 have been converted and uploaded to the

new system.

Purpose Tracks financial claims for prescription medications for seniors,

specific Department of Community Services clients, Cancer Society patients, as well as specific drug usage for these groups.

Brief
Description of
Contents

Information collected includes the Drug Identification Number (DIN), Anatomical Therapeutic Class Code, drug class, drug name, quantity, program involved with, date dispensed, date provider paid, prescriber, pharmacy, beneficiary demographics, generic or brand drug, trial DIN, refills allowed, days supply, drug cost, dispensing fees, co-payment arrangements, and exception drug information.

Who, Where Source: Pharmacist's claims

and How... Owner: Department of Health (DoH)

Custodian: Atlantic Blue Cross Care (ABCC)

Access: Written requests to Twyla Taylor, ABCC

Reports Regular and ad hoc reports.

Comments *Data storage and retrieval systems have changed over time and

access to historical data may be cumbersome.

Provincial Programs and Registries

Database Diabetes Care Program of Nova Scotia (DCPNS) Registry

Time Frame

April 1, 1994 to present.

Purpose

- To help determine the magnitude of diabetes mellitus and its related complications in Nova Scotia,
- To provide useful information to the Diabetes Centres (DC) staff, referring physicians, and district/facility administration,
- to allow for limited cross comparisons and an overview of provincial trends and practices in efforts to discover and apply best/better practice approaches.

Brief • Description of • Contents

- All new referrals to DCs since April 1, 1994,
- Information on follow-up cases prior to 1994 for DCs using the on-site registry,
- Newly diagnosed cases of diabetes in children < age 19 since 1992,
- IWK Health Centre Pregnancy and Diabetes Program data (new referrals from 1995-present),
- All DCs monthly statistics since 1998/99, (monthly statistics from 1992/93 to 1998/99 are housed in a separate database)
- Indicators of care (see attachment) on going collection for those DCs using onsite registry.

Who, Where and How...

Source: Diabetes Care Centres in the DHAs

Owner: Diabetes Care Program of Nova Scotia & District Health

Authorities

Custodian: Diabetes Care Program of Nova Scotia

Access:

- Through the DCPNS Data Access Policy and Procedure.
- Written requests to Coordinator (policy and application available on the DCPNS web-site http://www.diabetescareprogram.ns.ca).

Database National Diabetes Surveillance System (NDSS) Nova

Scotia Database

Time Frame 1995/1996 to 2001/2002.

Purpose A nationally (Health Canada) standardized database created to

facilitate diabetes surveillance and the monitoring of diabetes-

related complications across provinces and territories

Brief
Description of
Contents

• Incorporates provincial medicare registries, hospital discharge records and physician billings data

• Identifies the population with diabetes

• Flags diabetes-related complications and procedures for the Nova Scotia population as a whole

• Summarizes health services utilizations measures for the Nova Scotia population, such as the number and cost of physician visits, and total days care in hospital

• Retains individual's health card numbers allowing the database to be linked to other sources of data

Who, Where and How...

Source: Nova Scotia medicare registry, hospital discharge

and physician billing data

Owner: Diabetes Care Program of Nova Scotia

Custodian: Diabetes Care Program of Nova Scotia &

Population Health Research Unit, CH&E,

Dalhousie University

Access: Through the DCPNS Data Access Policy and

Procedure.

Database Cardiac Advisory Council / Improving

Cardiovascular Outcomes in Nova Scotia (ICONS)

Time Frame February 1997 to present.

Purpose The Cardiac Advisory Council is a provincial program with

mission to improve cardiovascular health and care in Nova Scotia. ICONS was a research project focusing on measuring and improving the quality of care provided to Nova Scotians with cardiovascular disease. ICONS's data are available at the

Cardiac Advisory Council.

Brief
Description of
Contents

Information collected on all admissions in Nova Scotia for acute myocardial infarction, congestive heart failure and unstable angina. Basic demographic information such as client ID, address, birth date, and gender as well as clinical data such as diagnosis, treatment, outcomes, etc.

Who, Where and How...

Source: Patient records

Owner: Department of Health

Custodian: Capital District Health Authority

Access: Program Manager, Cardiac Advisory Council

Database Multi-organ Transplant Program

Time Frame 1969 to present.

Contents

and How...

Purpose Contains statistics about medical treatment, waiting times, and

outcomes for kidney, liver and heart transplant patients.

Basic demographic information (donor and recipient), **Brief**

procedures, treatment, and outcomes, etc. **Description of**

Source: Capital District Health Authority (CDHA) Who, Where

Owner: **CDHA** Custodian: Multiple Organ Transplant Program, CDHA

> Coordinator, Multiple Organ Transplant Program, Access:

> > **CDHA**

Database Nova Scotia Cancer Registry

Time Frame 1970* to present.

Purpose Contains information on all Nova Scotians diagnosed with cancer.

Data is used to produce descriptive cancer statistics for Nova Scotia,

support cancer epidemiology work and approved research.

Brief Person oriented database that includes:

Description of Contents

Basic demographic information (e.g. Client ID, names, address at diagnosis, birth date, gender, health card number) as well as Disease information (e.g. diagnosis date, method of diagnosis, disease site,

disease stage)

Mortality data (e.g. date of death, cause of death)

Primary Cancer Treatment Data (e.g. type of treatment, dates of

treatment)

Who, Where and How...

Source: Hospital Health Information Departments, Nova Scotia

Vital Statistics, Hospital Laboratories (e.g. Pathology, Cytology), Provincial Cancer Centers in Halifax and

Sydney

Owner: Nova Scotia Department of Health/Cancer Care Nova

Scotia

Custodian: Surveillance & Epidemiology Unit, Cancer Care

Nova Scotia

Access: Director, Surveillance & Epidemiology Unit, Cancer

Care Nova Scotia

Reports Nova Scotia Cancer Registry: Annual Incidence Reports. Canadian

Cancer Registry: Annual Report and Statistical Tables.

Cancer In North America, Annual Report

WHO: Cancer Incidence Report on Five Continents (periodically).

*Information was collected as far back as the 1950s, but prior to

1970 the data are incomplete.

Database Nova Scotia Breast Screening Program

Time Frame June 1991.

Purpose Contains statistics regarding breast screening results from the

Nova Scotia Breast Screening Program (three mobile vans and

one metro clinic).

Brief
Description of
Contents

Basic demographic information such as client ID, address, birth date, gender, and health card number as well as screening site, screening, results and follow up, and patient report.

Who, Where and How...

Source: Client data

Owner: Department of Health (DoH)

Custodian: Nova Scotia Breast Screening Program

Access: Coordinator, Nova Scotia Breast Screening

Program

Database Nova Scotia Gynaecological Cancer Screening

Program

Time Frame Data collection with manual and electronic input began in May

1978.

Purpose Contains information on all PAP tests.

Brief
Description of
Contents

Basic demographic information such as client ID, postal code, birth date, and health card number, as well as which laboratory and physician was involved, prior history, test results, and

recommendations.

Who, Where and How...

Source: Seven cytology laboratories and colposcopy sites

Owner: Department of Health

Custodian: Cancer Care Nova Scotia, Margery MacIsaac Access: Cancer Care Nova Scotia, Margery MacIsaac

Reports 1997 Annual report.

Other reports forthcoming.

Database Reproductive Care Program (RCP) - H.B. Atlee Perinatal Database

Time Frame

1988 to present for Nova Scotia residents, women who delivered in NS or infants delivered in NS.

Purpose

- To assist with the development and monitoring of standards of care.
- To provide health care professionals and health care administrators with information required for surveillance of key health outcomes or specific clinical issues.
- To facilitate comparison of clinical indicators among groups of like heath care facilities or across geographic areas of the province.
- To assist with facility-level peer review activities.
- To focus programs in continuing professional education.
- To contribute to research related to perinatal care and outcomes.

Brief Description of Contents

Basic demographic data (e.g. unique ID, health card number birth date), behaviour and lifestyle information (e.g. smoking), labour and birth data, health outcomes, and information about maternal and infant diseases and procedures (e.g. pregnancy complications, congenital).

Who, Where and How...

Source: Hospitals

Owner: Nova Scotia health care facilities responsible and

accountable for data use.

Custodian: Reproductive Care Program (RCP)

Access: Written requests to Coordinator, RCP

Reports

Produces Annual reports and periodic reports for participating facilities. Specialized requests for aggregate data available following written request to RCP Co-ordinator. Requests may be submitted electronically via form on RCP website: http://rcp.nshealth.ca Other requests (e.g. database linkages) require additional authorization.

Medical Officer of Health

Database Anonymous HIV Test Site

Time Frame June 1994 to present.

Purpose Records questionnaire data of Nova Scotians requesting

anonymous testing for HIV/AIDS as per HIV Reporting and

Testing regulations to the Health Act.

Brief Description of Contents

Basic demographic information such as county of residence, birth year, and gender, as well as behavioural risk factors, reasons for testing, test history, results, and suggested community services contacts.

Who, Where and How...

Source: Survey data from Planned Parenthood Metro Clinic

Owner: Department of Health (DoH)

Custodian: Provincial Medical Officer (Dr. J. Scott)

Access: Provincial Medical Officer (Dr. J. Scott)

Database Hepatitis C and HIV/AIDS

Time Frame Hepatitis C: Fall 1994 to present.

HIV Infection/AIDS: January 1983 to present.

Purpose Surveillance for Hepatitis C and HIV/AIDS as per Notifiable

Diseases responsibilities under the Health Act

Brief Basic demographic information as well as risk factors, and date

Description of reported.

Contents

Who, Where Source: Regional Public Health Offices and

and How... Physicians

Owner: Department of Health (DoH)

Custodian: Provincial Medical Officer (Dr. J. Scott)

Access: Provincial Medical Officer (Dr. J. Scott)

Reports Annual Hepatitis C report; Annual HIV/AIDS

Database Notifiable Disease Registry

Time Frame 1983 to present.

Purpose Records incidence of communicable diseases (such as measles,

mumps, food poisoning, sexually transmitted diseases, etc.) that must be reported to the Department under *Health Act* legislation.

Brief
Description of
Contents

Basic demographic information such as address (county ± municipality), age, gender, diagnosis, and date reported.

Who, Where and How...

Source: Laboratory confirmed reports/Regional Public

Health Offices

Owner: Department of Health (DoH)

Custodian: Provincial Medical Officer (Dr. J. Scott)

Access: Provincial Medical Officer (Dr. J. Scott)

Reports Annual Surveillance Reports.

Comments Also used to report nationally notifiable diseases to Health

Canada.

Department of Health Survey Databases

Database Infant Feeding Survey

Time Frame Spring 1992 and 1994.

Purpose Investigate breastfeeding habits of mothers with babies 0 to 5

months of age.

Brief
Description of
Contents

Basic demographic information such as client ID, address, birth date and health card number as well as infant feeding history; breastfeeding information including intent, barriers, and practices; lifestyle risk behaviours; prenatal attendance; baby

information; number of siblings, etc.

Who, Where and How...

Source: Survey participants

Owner: Department of Health (DoH)

Custodian: Public Health and Health Promotion Section, DoH Access: Director, Public Health and Health Promotion, DoH

Reports A highlight document, a discussion document, and a technical

report were released in 1998.

Comments The intention is to do periodic surveys. The time frame is yet to

be determined.

Database Nova Scotia School Drug Survey

Time Frame Standardized questionnaire in 1996, 1998, 2002. Other surveys

have been done approximately every 5 years since the 1960's.

Purpose Provide estimates of rates of use of alcohol, tobacco, cannabis

and other drug use among junior and senior high school students.

Brief

Description of Contents

Anonymous self-reported use of licit and illicit drugs,

demographics, school performance, problems with drug use, and sexual activity. An open-ended question(s) allows students to

enter other information in their own words.

Who, Where and How...

Source: Survey participants

Owner: Department of Health (DoH)

Custodian: Community Health & Epidemiology, Dalhousie

University

Access: Director, Drug Dependency Services, DoH

Reports Nova Scotia Student Drug Use 1996

Nova Scotia Student Drug Use 1998

Nova Scotia Student Drug Use 2002

Comments The Standardized Student Drug Use Survey instrument is used by

all four Atlantic Provinces allowing interprovincial comparisons.

Other Data on the Health of Nova Scotians

Database Canadian Hospital Injury Reporting and Prevention

Program (CHIRPP)

Time Frame 1990

Purpose Surveillance of childhood injuries presented in Emergency

Department at the IWK Health Centre. In total, 15 centres across

Canada collect data (10 pediatric/5 general hospitals).

Brief
Description of
Contents

Basic demographic information such as name, address, birth date, and gender, description of injuries and how the injury occurred.

This database has its own coding system.

Who, Where and How...

Source: 15 Canadian Hospitals (primarily pediatric)

Owner: IWK Health Centre (each hospital owns their own

data)

Custodian: IWK Health Centre

Access: CHIRPP Information Officer at IWK Health Centre.

Database Canadian Study of Health and Aging (CSHA)

Time Frame February 1991 - December 2001: 3 cycles completed

Purpose Longitudinal, population-based study which allows researchers to

understand the clinical course of cognitive decline. Addresses the prevalence of cognitive impairment and cognitive loss that does not meet the criteria for dementia. The data was collected from 10,263 people, over the age of 65, who were followed up every five years until the completion of CSHA-3 in December

2001.

Brief
Description of
Contents

Captured information on measures of cognitive impairment and cognitive loss that did not meet criteria for dementia. Additional measures including functional impairment, emotional dysfunction, executive dysfunction, and social support were

collected.

Who, Where and How...

Source: Randomly selected participants from both the

community (n=9008) and institutions (n=1255).

Owner: Seniors' Independence Research Program

Custodian: National Health Research and Development

Program, Health Canada

Access: Local contact: Dr. Kenneth Rockwood

Reports Dr. K. Rockwood has produced various research papers from the

database. They range from prevalence, to symptoms and risk

factors, as well as the use of home care services.

Database CIVIC/ACCORD (Consortium to Investigate

Vascular Impairment of Cognition/ A Canadian

Collaborative Cohort of Related Dementias)

Time Frame July 1996 to October 1998- baseline visit and two yearly follow-

up visits.

Purpose CIVIC - a longitudinal cohort study of patients aged 65 years

and over with memory impairment in nine memory clinics across Canada selected to investigate vascular dementia. ACCORD - a longitudinal cohort study of subjects referred to eight Canadian dementia research centres for the evaluation of neurobehavioral

symptoms suggesting dementia.

Brief
Description of
Contents

These studies parallelled each other in data collection except for a few research scales. The CIVIC study had a baseline cohort of 1347 subjects and the ACCORD a baseline cohort of 1066 subjects. Both cover a large range of dementia types with Alzheimer's Disease accounting for the largest proportion. Subjects in clinics across the country were assessed in great detail. The data was collected and a database was developed and

statistically analysed.

Who, Where and How...

Source: Participants with memory problems, both in the

community and in institutions.

Owner: Dr. Kenneth Rockwood & Dr. Howard

Feldman

Custodian: Dr. Kenneth Rockwood, Halifax, NS &

Dr. Howard Feldman, Vancouver, BC

Access: Local contact: Dr. Kenneth Rockwood

Reports Research papers continue to be published and are providing

valuable information on dementia in Canada.

Database Healthy Heart Healthy Brain (H₃B) Core + Add-on

Time Frame September 2001- Present.

Purpose To collect data and examine the associations of traditional and

emerging cardiovascular risk factors with cognitive impairment and dementia; with cardiovascular and cerebrovascular disease; with other risk factors for cognitive impairment and dementia;

and with each other.

Brief
Description of
Contents

Characterization at baseline; one cohort will have 15 year follow-up, the other 5-6 year follow-up. The study is comprised of a screening interview, neuropsychological testing and clinical examination. Recruitment of 777 participants in the 1986 NS Heart Health Survey; aged 40+; 1,946 participants in the 1995 NS Health Survey; aged 40+. Fundamental variables of the Survey include: current cognitive function (all participants to be screened), cardiovascular health (current, past), other health (current, past), selected family health history, medications (current and some past), lifestyle/risk factors, socio-demographic, blood tests, subset of participants, detailed neuropsychological testing, and a clinical examination performed by a geriatrician. Final diagnosis is established with a consensus conference by a

geriatrician and a psychologist.

Who, Where and How...

Source: Community and institution

Owner: Dalhousie University

Custodian: Dr. Kathleen MacPherson

Access: Dr. Kathleen MacPherson, QEII HSC

Comments

Initial contact with potential participants is through Dr. David MacLean (Heart Health Program Principal Investigator).

Database Health Indicators

Time Frame Produced bi-annually (spring, winter) by Statistics Canada and

CIHI

Purpose Contains a collection of national and provincial information

Organized in a health indicator framework, which includes:

Health of Canadians – e.g., mortality, health problems; Determinants of Health – e.g., smoking, exercise, income; Health system performance – e.g., hospital re-admissions; and

community/health system characteristics

Set of indicators and information is intended to provide high level comparisons between Statistics Canada defined Health

Zones and peer groups.

Brief
Description of
Contents

Health status: life expectancy, potential years of life lost, mortality rates, morbidity rates, etc. Health determinants: population factors, fertility rates, births, smoking and drinking rates, exercise rates, etc. Health Resources and Utilization: health expenditures by category and sectors, number of professionals, bed occupancy rates, patient days, physician services, etc.

Who, Where and How...

Source: Various data sources
Owner: Statistics Canada
Custodian: Statistics Canada

Access: Director, Information Analysis and Reporting,

Department of Health

Reports Located on the Internet at:

http://www.statcan.ca/english/freepub/82-221-XIE/free.htm

Comments Quickly and easily accessed but data are intended for high level

comparisons between Statistics Canada peer groups. The

appropriateness of peer group assignments may be questionable.

Data are generally not current.

Database National Population Health Survey

Time Frame 1994/95, 1996/97, 1998/99, 2002/03-household component

Purpose Provide national and provincial health promotion information.

Brief Description of Contents

Longitudinal national survey on population health status, the use of health services, risk factors, demographic information and socio-economic status.

Who, Where and How...

Source: National survey results
Owner: Statistics Canada

Custodian: Statistics Canada

Access: Written request to the Information Analysis and

Reporting Section, Department of Health

Reports Public use micro data file.

Comments Approximately 1,100 Nova Scotians are included in this survey.

Interprovincial comparisons are possible but there is no regional

breakdown of data.

Database Canadian Community Health Survey

Time Frame 2001 to 2003

Purpose To provide timely cross-sectional estimates of health

determinants, health status and health system utilization at a

sub-provincial level.

Brief
Description of
Contents

National survey on health determinants, health status and health system utilization for 136 health regions across the country.

Who, Where and How...

Source: National survey results

Owner: Statistics Canada Custodian: Statistics Canada

Access: Written request to the Information Analysis and

Reporting Section, Department of Health

Reports Public use micro data file (released May 2002.)

Database Vital Statistics: Registry of Births, Deaths and

Marriages

Time Frame Births, 1925 to present; Deaths, 1926 to present.

Purpose Recording vital statistics such as marriages, births and deaths in

the province.

Brief
Description of
Contents

Details of births, deaths, and marriages in Nova Scotia as well as

next of kin information.

Who, Where and How...

Source: Birth, death and marriage registrations

Owner: Service Nova Scotia and Municipal Relations

(SNSMR)

Custodian: Vital Statistics Section, SNSMR Access: Vital Statistics Section, SNSMR

Reports Vital Statistics: *Annual Report*.

Comments Health card number not on certificates prior to early 1990s but

present on majority of death registrations since 1998.

Old data slowly being added to computer files. Electronic

information is stored in Ottawa.

Department of Health has a copy of all death data since 1990.

Database Canadian Tobacco Use Monitoring Survey (CTUMS)

Time Frame February - June, July - December and Annual 1999, 2000, 2001,

2002, 2003.

Purpose The Canadian Tobacco Use Monitoring Survey (CTUMS) has

been conducted for Health Canada since 1999, and provides data on tobacco use and related issues. The primary objective of the survey is to track changes in smoking status, especially for populations most at risk, such as the 15 to 24 year olds. The survey allows Health Canada to estimate smoking prevalence by

province-sex-age groups on a semi-annual basis.

Brief Nation

Description of Contents

National smoking rate age 15+

Smoking rate among youth (aged 15-19), young adults (20-24)

Consumption

Provincial smoking rates Quit smoking methods

Who, Where and How...

Source:

Owner: Health Canada Custodian: Statistics Canada

Access: For information on public use microdata files,

contact Client Services at 1-888-297-7355; (613) 951-7355; fax (613) 951-3012), Special Surveys

Division.

Reports Health Canada: web-based postings of annual results, and fact

sheets

Comments Annual Data is now available for 1999, 2000, 2001, 2002 and

2003, from the Canadian Tobacco Use Monitoring Survey (CTUMS). This Health Canada survey, conducted by Statistics Canada, provides timely, reliable and continual data on tobacco

use and related issues.

Appendices

Appendix A: Contact Addresses

Nova Scotia Government:

Nova Scotia Department of

Health

P.O. Box 488

Halifax, N.S.

B3J 2R8

Switchboard: (902) 424-5818

Capital District Health Authority Drug Dependency Services 3rd Simpson Hall

Dartmouth, N.S.

B2Y 3Z9

Phone: (902) 424-5623

Hospitals:

IWK Health Centre 5850/5980 University Avenue

P.O. Box 9700

Halifax, Nova Scotia

B3K 6R8

Switchboard: (902) 470-8888

QEII Health Sciences Centre Capital District Health Authority 1278 Tower Road

Halifax, N.S. B3H 2Y9

Switchboard: (902) 473-2700

Other:

CIHI Order Desk 200-377 Dalhousie St. Ottawa, ON K1N 9N8

Phone: (613) 241-7860

Atlantic Blue Cross Care (ABCC)/Quikcard P.O. Box 2200 Halifax, N.S. B3J 3C6

Phone: (902) 496-6624

Appendix B: Database Fields

Discharge Abstract Database - D.A.D.

Canadian Institute for Health Information (CIHI) Discharge Abstract Database - DAD for Inpatients, Day surgery and Chronic Rehabilitation Patients

Institution number, health card number, postal code, residence code, responsibility for payment code, birth date, age, gender, admission date and category, readmission code, discharge date, institution type, exit codes, patient service codes, weight for newborn and neonates, calculated length of stay, alternate level of care days, medical/surgical indicator, major clinical category (MCC), case mix group or day patient grouping (CMG or DPG), resource intensity weight (RIW), COPS physician number, most responsible diagnosis and up to twenty-four additional diagnoses and diagnosis types, principal intervention episode and intervention date, intervention provider's (s) number, anaesthetist and anaesthetic type, intervention location and up to 19 additional intervention episodes, special care unit codes, service transfers and days if any, abortion information, blood transfusions and special project fields defined by the Department of Health, CIHI, or individual hospitals including but not limited to lengths of stay on designated mental health units.

National Ambulatory Care Reporting System (NACRS)

Canadian Institute for Health Information (CIHI) National Ambulatory Care Reporting System (NACRS)

Facility number, health card number, postal code, residence code, gender, birth date, highest level of education, ambulatory registration number, responsibility for payment, MIS functional centre account code, visit type, arrival date and time, triage date and time, decision to admit date and time, prefix main problem, intervention code, duration and location, anaesthetic technique, date and time visit completed, out of hospital indicator, visit disposition, referred to, service provider and provider type, blood transfusion indicator, delivery/abortion information, Pediatric Canadian Triage Acuity Scale (PCTAS) indicator, seatbelt indicator, helmet indicator, special project fields, Major Ambulatory Cluster (MAC), Comprehensive Ambulatory Classification System (CACS), Ambulatory Cost Weight values (ACW), etc.

Appendix C: Population Health Research Unit

In addition to data held by the Nova Scotia Department of Health and related healthcare organizations, anonymous copies of the major databases have been made available for research purposes to the Population Health Research Unit (PHRU). This unit was established within Dalhousie University's Department of Community Health and Epidemiology in 1993 to meet the growing need for data and research support in population health, health services utilization, and their interrelationships. The Province of Nova Scotia has supplied PHRU with complete Medicare, Pharmacare and Discharge Abstract Database files suitable for research purposes. The Unit has also been supplied with Workers' Compensation records and has access to a variety of other data sources including clinical databases and large scale population surveys.

The individual databases have been linked to create a comprehensive data system which provides opportunities for research in the health and social sciences.

- · Evaluation studies
- · Needs assessments
- · Cost-benefit and cost-effectiveness analyses
- · Compliance studies
- · Determinants of health studies

- · Health status analyses
- · Patterns of care and practice

studies

· Service and technology

utilization studies

Use of PHRU's services

To ensure fair and equitable access to the databases and to preserve the integrity and confidentiality of the data, a number of policies have been adopted. Researchers are required to submit a written request indicating the nature of the data requested, its intended use and the extent to which it will be shared with others. All users are required to sign a confidentiality agreement and all access is governed by the pricing policies of the Unit.

Staff within PHRU will provide expert services for data interpretation and explanation on a cost recovery basis. Microdata in the form of customized research files may be released to researchers upon approval of the PHRU Management Committee. All such data files will be rendered anonymous and subjected to special release conditions.

For more information contact:

Population Health Research Unit
Department of Community Health & Epidemiology
Faculty of Medicine
Dalhousie University
Halifax, Nova Scotia
B3H 4H7

Phone: (902) 494-3860 Fax: (902) 494-1597