

82-558

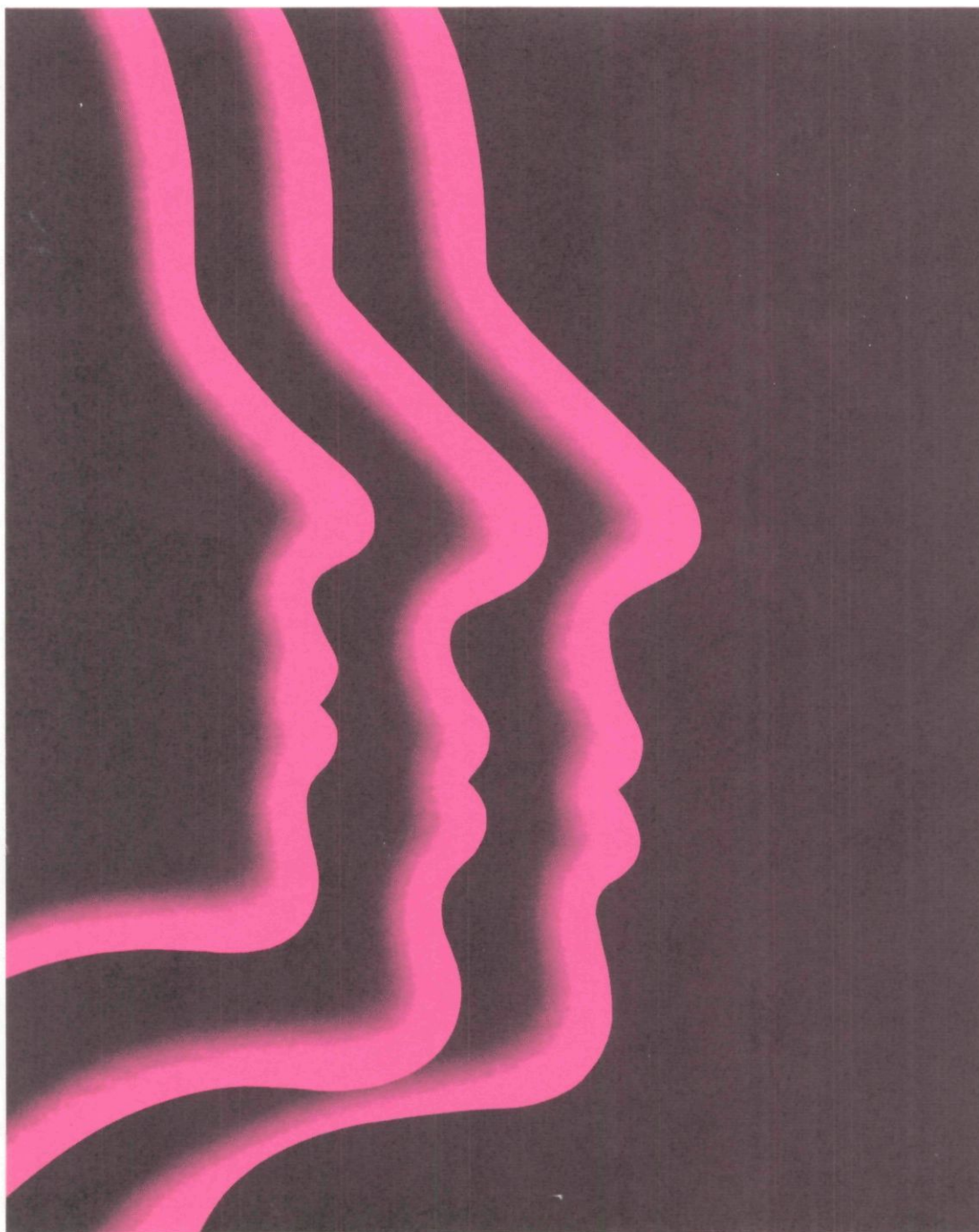
c. 3

Occupational and Environmental
Health Research Section

Canadian Centre
for Health
Information

Section de la recherche
sur l'hygiène du travail
et de l'environnement
Centre canadien
d'information
sur la santé

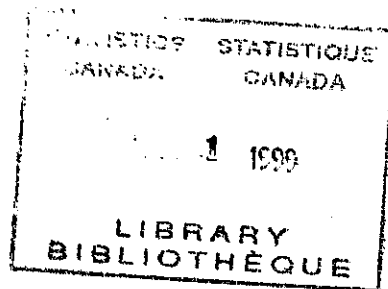
STUDIES AND REFERENCES RELATING TO USES OF THE CANADIAN MORTALITY DATA BASE JUNE 1992



Statistics
Canada

Statistique
Canada

Canada



STUDIES AND REFERENCES
RELATING TO USES OF THE
CANADIAN MORTALITY DATA BASE
MAY 1992

Occupational and Environmental Health Research Section
Canadian Centre for Health Information
R.H. Coats Building, 18th Floor,
Tunney's Pasture
Ottawa, Ontario
K1A 0T6

12.
OEHRs-No. 11

INTRODUCTION

There is a growing interest in the delayed effects of occupational, lifestyle and socio-economic factors on the health of individuals. In response to the demands for statistical data, the objectives of the Occupational and Environmental Health Research Section are:

- . to follow up selected populations for delayed health effects caused by exposure to hazardous environmental agents;
- . to improve scientific knowledge regarding health hazards and identify areas of risk;
- . to assist health promotion activities to improve quality of life;
- . to provide information for the setting of safety standards and other regulatory programs;
- . to assist task forces, enquiry boards and other decision-makers in the assessment of occupational and environmental risk factors; and
- . to improve computer methods as well as reduce the cost and response burden in carrying out health research studies.

The section maintains the Canadian Mortality Data Base, develops record linkage methodology to address new health information requirements; develops and recommends better data collection procedures; identifies data gaps, and finds solutions to these where possible, particularly with the use of record linkage.

Many studies are being conducted in collaboration with other departments and agencies. The following gives a brief description of the studies that have been completed as well as those currently on-going and then lists the references to papers that have been produced as a result of the record linkage process.

STUDIES RELATING TO USES OF THE CANADIAN MORTALITY DATA BASE FILE

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
1. ALBERTA DEATH CLEARANCE DR. G. HILL ALBERTA CANCER BOARD	180,000 MALES AND FEMALES; DEATH YEARS 1953-1981	THIS WAS A PILOT STUDY TO DEVELOP THE METHODOLOGY OF LINKING THE CANADIAN MORTALITY DATA BASE TO CANCER REGISTRY RECORDS AND TO USE THE RESULTS OF THE LINKAGE TO ASSESS VARIOUS FACTORS IN CANCER SURVIVAL. A PAPER HAS BEEN ACCEPTED FOR PUBLICATION BY CMAJ. A DEATH SEARCH UPDATE IS BEING PLANNED.	COMPLETED	A15-A18, A31,85
2. INFANT DEATH BIRTH LINKAGE JOHN SILINS STATISTICS CANADA	8400 INFANT DEATHS FOR 1978-80 LINKED TO BIRTH RECORDS IN 1978-1980	THE OBJECTIVE OF THIS PROJECT WAS TO PROVIDE INFORMATION ON RISK FACTORS FOR INFANT DEATHS AND PERINATAL MORTALITY IN CANADA. AN ATTEMPT WAS MADE TO IDENTIFY ALL INFANT DEATHS IN CANADA FOR THE YEARS 1978 TO 80 AND TO MATCH THE DEATH RECORD WITH THE BIRTH RECORD FOR THE SAME YEARS. THE RESULTING LINKED FILE CAN BE USED TO EVALUATE CAUSE OF DEATH AND MORTALITY RATES IN TERMS OF WEIGHT, GESTATION PERIOD, AGE, MARITAL STATUS, ETC., OF THE MOTHER. THESE ITEMS ARE ON THE BIRTH FILE.	COMPLETED	A24
3. THE NUTRITION CANADA STUDY DR. D. WIGLE HEALTH AND WELFARE CANADA	20,000 MALES AND FEMALES; DEATH YEARS 1970-1981	THE AIM WAS TO STUDY NUTRITIONAL FACTORS WHICH MAY BE ASSOCIATED WITH MORTALITY.	COMPLETED	
4. NUTRITION CANADA DR. D. WIGLE HEALTH AND WELFARE CANADA	20,000 MALES AND FEMALES; UPDATE 1982-1985 FOR TOTAL DEATH YEARS 1971-1985	THE PURPOSE OF THIS STUDY WAS TO EXAMINE CANADIAN NUTRITIONAL RISKS AND/OR BENEFITS PROSPECTIVELY AND THE RELATIONSHIPS OF MORTALITY RATES IN RELATION TO A VARIETY OF PREDISPOSING FACTORS. IN 1987/88 AN UPDATE TO THE PREVIOUS LINKAGE WAS DONE RESULTING IN A FINAL FILE COVERING DEATHS FROM 1971-1985.	COMPLETED	B3

* SEE REFERENCE LIST ATTACHED.

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
5. CANADA HEALTH SURVEY DR. D. WIGLE HEALTH AND WELFARE CANADA	30,000 MALES AND FEMALES; DEATH YEARS 1978-1985	THE STUDY INVOLVED LINKING INFORMATION COLLECTED BETWEEN MAY, 1978 AND MARCH, 1979 AS PART OF THE CANADA HEALTH SURVEY TO DEATH RECORDS CONTAINED IN THE MORTALITY DATA BASE TO INVESTIGATE THE MORTALITY EXPERIENCE OF CHS PARTICIPANTS.	COMPLETED	B7
M. FAIR STATISTICS CANADA	DEATH YEARS 1986-1989	A FOLLOW-UP LINKAGE IS BEING UNDERTAKEN IN 1992.	ONGOING	
6. ATLANTIC FISHERMEN STUDY DR. I. NEUTEL HEALTH AND WELFARE CANADA	33,000 MALES; DEATH YEARS 1975-1983	THE PURPOSE OF THIS STUDY WAS TO DETERMINE THE POSSIBLE HEALTH EFFECT OF CONSUMING FISH FROM POLLUTED WATERS AND TO INVESTIGATE THE ACCIDENT RATE OF FISHERMEN. ANALYSIS OF THE DATA HAS BEEN CARRIED OUT BY HEALTH AND WELFARE.	COMPLETED	K3
M. FAIR STATISTICS CANADA				
7. FARMERS STUDY DR. L. RITTER HEALTH AND WELFARE CANADA	366,000 MALES AND FEMALES; DEATH YEARS 1971-1986	THE AIM OF THE PROJECT IS TO INVESTI- GATE MORTALITY AMONG FARMERS, PARTIC- ULARLY IN RELATION TO USE OF PESTICIDES AND HERBICIDES. FILES OF THE 1971 CENSUS OF POPULATION, 1971 CENSUS OF AGRICULTURE, 1971 AND 1981 CENTRAL FARM REGISTERS AND THE CMDB ARE BEING USED FOR THE STUDY. THIS PROJECT STARTED IN 1985/86 AND IS EXPECTED TO END IN 1992/93.	ONGOING	A39,A43, A44
M. FAIR STATISTICS CANADA				
8. SARCOMA IN FARMERS DR. D. WIGLE HEALTH AND WELFARE CANADA		THE AIM WAS TO INVESTIGATE OCCUPATION IN RELATION TO RISK OF DEVELOPING CANCER (IN PARTICULAR SARCOMA IN FARMERS). THIS STUDY LOOKED AT METHODS TO ADDRESS THIS PROBLEM USING EXISTING DATA SOURCES. A REPORT DISCUSSING VARIOUS ALTERNATIVE METHODS OF DETERMINING ANY EXCESS RISK OF SOFT TISSUE SARCOMAS IN FARM OPERATORS WAS PREPARED BY STATISTICS CANADA.	COMPLETED	B6

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
9. NEWFOUNDLAND FLUORSPAR MINERS DR. H. STOCKER ATOMIC ENERGY CONTROL BOARD DR. D. WIGLE HEALTH AND WELFARE CANADA M. FAIR STATISTICS CANADA	2,000 MALES; DEATH YEARS 1933-1984 DEATH YEARS 1985-1990	THE PURPOSE OF THE PROJECT WAS TO ASSESS THE POTENTIAL OCCUPATIONAL HEALTH RISKS THAT EXIST AMONG NEWFOUNDLAND FLUORSPAR MINERS. ANALYSIS OF THE DATA SHOWS THAT RISK OF DYING OF LUNG CANCER IS STRONGLY ASSOCIATED WITH CUMULATIVE RADON DAUGHTER EXPOSURE. AN UPDATE TO THIS LINKAGE IS BEING UNDERTAKEN.	COMPLETED ONGOING	B1, B2, B4 U6
10. NATIONAL DOSE REGISTRY K.P. HO ATOMIC ENERGY CONTROL BOARD DR. P. ASHMORE HEALTH AND WELFARE CANADA M. FAIR/M. WERNER STATISTICS CANADA	300,000 MALES AND FEMALES; DEATH YEARS 1950-1988	THE PURPOSE OF THIS PROJECT IS TO INVE- TIGATE THE EFFECTS OF LOW LEVEL RADIA- TION ON THE CANADIAN WORK FORCE WHO PARTICIPATE IN THE NATIONAL DOSE REGISTRY. THIS IS A MULTI-LINKAGE PROJECT. THE FIRST STEP WAS TO INTERNALLY LINK THE MASTER IDENTIFICATION FILE TO REDUCE IT FROM 450,000 RECORDS TO ABOUT 300,000 INDIVIDUALS. INTERNAL LINKAGE HAS BEEN COMPLETED. THE NEXT STEP WAS TO LINK WITH THE CMDB AND ADD THE DOSE INFORMATION. AN ANALYSIS TEAM HAS BEEN SET UP INCLUDING HEALTH AND WELFARE CANADA AND STATISTICS CANADA.	ONGOING	U6
11. AECB ALIVE FOLLOW-UP STUDY DR. H. STOCKER ATOMIC ENERGY CONTROL BOARD M. FAIR/P. LALONDE STATISTICS CANADA	30,000 MALES	THE AIM WAS TO INVESTIGATE AND DEVELOP METHODS TO DO AN 'ALIVE' FOLLOW-UP OF COHORT FILES TO COMPLEMENT DEATH SEARCHES AND TO TEST THE PROCEDURES USING THE ONTARIO MINERS' FILE.	COMPLETED	U2
12. AECB SIN EVALUATION STUDY DR. H. STOCKER ATOMIC ENERGY CONTROL BOARD M. FAIR STATISTICS CANADA	30,000 MALES; DEATH YEARS 1964-1977	THE PURPOSE OF THE PROJECT WAS TO EVALUATE THE USE OF THE SOCIAL INSURANCE NUMBER INDEX TO FACILITATE DEATH SEARCHES PERTAINING TO ONTARIO MINERS. THE RESULTS INDICATE A SUBSTANTIAL DEGREE OF IMPROVEMENT IN THE COMPLETENESS AND ACCURACY OF THE DEATH SEARCHES WHEN SIN IDENTI- FIERS ARE EMPLOYED.	COMPLETED	U1

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
13. HEALTH RECORD KEEPING PROCEDURES K.P. HO ATOMIC ENERGY CONTROL BOARD M. FAIR/M. CARPENTER STATISTICS CANADA		THE AIM OF THE PROJECT WAS TO DEVELOP AND MARKET A RECOMMENDED STANDARD IDENTITY SUMMARY QUESTIONNAIRE AND ACCOMPANYING DOCUMENTATION FOR KEEPING COMPUTERIZED HEALTH RECORDS BY INDUSTRY AND AGENCIES WITHIN CANADA TO IMPROVE LONG TERM HEALTH MONITORING AND EPIDEMIOLOGICAL FOLLOW-UP STUDIES. A STANDARD QUESTIONNAIRE AND DATA COLLECTION PACKAGE WAS DEVELOPED AND TESTED.	COMPLETED	A33,A38, A48,U4
14. STANDARDIZATION OF DATA COLLECTION FOR HEALTH RECORD KEEPING M. FAIR/M. CARPENTER STATISTICS CANADA		A FRENCH VERSION OF THE DATA COLLECTION PACKAGE HAS BEING PRODUCED. ALSO A PC SOFTWARE VERSION FOR ENTERING THE DATA HAS BEEN DEVELOPED IN BOTH ENGLISH AND FRENCH.	COMPLETED	A34,A35 A36
15. NAME ENCODING SCHEMES K.P. HO ATOMIC ENERGY CONTROL BOARD M. SMITH/P. LALONDE STATISTICS CANADA	SUBSET OF DEATH FILE; DEATH YEARS 1970-79	THE PURPOSE OF THE PROJECT WAS TO MODIFY AND IMPROVE THE NEW YORK STATE IDENTIFICATION AND INTELLIGENCE SYSTEM (NYSIIS) SURNAME ENCODING SCHEME USED AT STATISTICS CANADA, TO DEVELOP ROUTINES FOR MATCHING FORENAMES, AND TO EVALUATE THE ADVANTAGES OF USING ALTERNATIVE SEQUENCING ITEMS FOR POCKET IDENTIFIERS. THE OVERALL AIM WAS TO IMPROVE THE ACCURACY OF MATCHING AND LINKING RECORDS FOR EPIDEMIOLOGICAL STUDIES.	COMPLETED	U5
16. MORBIDITY FEASIBILITY STUDY K.P. HO ATOMIC ENERGY CONTROL BOARD M. FAIR/M. CARPENTER STATISTICS CANADA		THE PURPOSE OF THE PROJECT WAS TO DETERMINE THE FEASIBILITY OF USING MORBIDITY DATA IN CANADA FOR EPIDEMIOLOGICAL STUDIES TO COMPLEMENT AND SUPPLEMENT MORTALITY DATA AVAILABLE THROUGH THE CANADIAN MORTALITY DATA BASE. A REPORT HAS BEEN PREPARED FOR AECB.	COMPLETED	U3
17. ATOMIC ENERGY OF CANADA LTD MORTALITY STUDY DR. J. WEEKS ATOMIC ENERGY OF CANADA LTD	17,000 MALES AND FEMALES; DEATH YEARS 1950-1980	THE PURPOSE WAS TO INVESTIGATE THE LONG-TERM HEALTH EFFECTS OF LOW LEVEL RADIATION ON HUMAN POPULATIONS. NO EXCESS DEATHS WERE DISCOVERED.	COMPLETED	D3-D12

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
18. ATOMIC ENERGY OF CANADA LTD MORTALITY STUDY - UPDATE DR. J. WEEKS ATOMIC ENERGY OF CANADA LTD. M. FAIR/M. CARPENTER STATISTICS CANADA	14,300 EMPLOYEES; DEATH YEARS 1950-1985	THIS UPDATED STUDY HAS INVESTIGATED THE RELATIONSHIP BETWEEN CAUSES OF DEATH AND OCCUPATIONAL EXPOSURE TO IONIZING RADIATION. THE MORTALITY LINKAGE HAS BEEN COMPLETED AND THE ANALYSIS IS BEING CARRIED OUT BY NCIC.	ONGOING	
19. THE WCB/ENL INTERNAL LINKAGE DR. J. ABBATT ELDORADO RESOURCES LIMITED	43,000 MALES	THE PURPOSE OF THE STUDY WAS TO DERIVE MORE COMPLETE EXPOSURE HISTORIES FOR MINERS - ESPECIALLY URANIUM MINERS.	COMPLETED	E6
20. ELDORADO NUCLEAR - 1982 DR. J. ABBATT ELDORADO RESOURCES LIMITED	20,765 MALES; DEATH YEARS 1950-1980	THE AIM WAS TO STUDY THE CAUSES OF DEATH OF URANIUM MINING, MILLING AND REFINERY WORKERS.	COMPLETED	E1-E9, F10,F12, F14
21. TB, ISONIAZID AND CANCER STUDY DR. GEOFF HOWE, NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO	64,037 MALES AND FEMALES; DEATH YEARS 1950-1973; CANCER INCIDENCE 1969-1973	THE PURPOSE OF THE STUDY WAS TO DETERMINE WHETHER ISONIAZID IS CARCINOGENIC. 12,498 DEATHS AND 793 CASES OF CANCER WERE IDENTIFIED, BUT NO SIGNIFICANT EXCESS OF ANY CANCER SITES SUSPECTED TO BE ASSOCIATED WITH ISONIAZID WERE FOUND.	COMPLETED; TO BE UP- DATED	F1
22. CANADIAN LABOUR FORCE 10% SAMPLE DR. GEOFF HOWE, NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO J. LINDSAY STATISTICS CANADA	700,000 MALES AND FEMALES; DEATH YEARS 1965-1979	THE PURPOSE OF THE STUDY WAS TO ESTABLISH A MONITORING SYSTEM TO DETECT ASSOCIATIONS BETWEEN SPECIFIC OCCUPATIONS AND CAUSES OF CANCER MORTALITY FOR GENERATING AND TESTING HYPOTHESES. SO FAR ANALYSIS HAS IN- CLUDED ONLY MALES; MORTALITY IS STILL LOW SINCE THE COHORT IS STILL YOUNG, BUT INTERESTING ASSOCIATIONS ARE STARTING TO APPEAR.	1965-73 COMPLETED; 1965-79 UPDATE COMPLETED	D1,F2, F6,F8
23. CNR RAILWAY WORKERS DR. GEOFF HOWE, NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO	43,826 MALES; DEATH YEARS 1965-1977	THE CAUSE OF DEATH OF 17,838 PENSIONERS WAS ASCERTAINED. THE MAIN FINDING WAS AN ELEVATED RISK OF LUNG CANCER FOR THOSE EMPLOYED IN OCCUPATIONS INVOLVING EXPOSURE TO DIESEL FUMES AND COAL DUST, WITH HIGHLY SIGNIFICANT DOSE-RESPONSE RELATIONSHIPS.	COMPLETED	F9

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
24. FLUOROSCOPY AND CANCER IN TUBERCULOSIS PATIENTS DR. G.R. HOWE & DR. A.B. MILLER NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO	90,000 MALES AND FEMALES; DEATH YEARS 1940-1980	ANALYSIS HAS FOCUSED ON THE RELATIONSHIP BETWEEN AGE AT FIRST EXPOSURE TO RADIATION AND DEVELOP- MENT OF BREAST CANCER IN FEMALES AS WELL AS EXAMINING THE DOSE RESPONSE RELATIONSHIP BETWEEN AMOUNT OF RADIATION RECEIVED AND DEVELOPMENT OF BREAST CANCER. IT IS PLANNED TO ANALYZE THE RELATIONSHIP BETWEEN OTHER TYPES OF CANCER AND RADIATION.	COMPLETED; TO BE UPDATED	D2,F5
25. FLUOROSCOPY AND CANCER IN TUBERCULOSIS PATIENTS DR. G. HOWE NATIONAL CANCER INSTITUTE OF CANADA, EPIDEMIOLOGY UNIT, UNIVERSITY OF TORONTO M. CARPENTER STATISTICS CANADA	90,000 TB PATIENTS MALE AND FEMALE; DEATH YEARS 1950-1987; CANCER YEARS 1975-1983	THIS IS A FOUR PHASE RESEARCH PROJECT. ONE PURPOSE OF THIS PROJECT IS TO DEVELOP A SUITABLE DATA BASE TO ENABLE THE COMPUTERIZED LINKAGE OF CANCER INCIDENCE AMONG CANADIANS WITH VARIOUS RISK FACTORS TO ENABLE THE ANALYSIS OF RESULTS WITH THE AIM OF IMPROVING RISK ESTIMATES FOR VARIOUS CANCERS. PHASE I INITIATED IN 1987/88 AND PHASE II COMPLETED 1988/89 STANDARDIZED THE CANCER FILES FOR ALL PROV- INCES AND TERRITORIES EXCEPT ONTARIO (1975-84). PHASE III COMPLETED THE CANCER DATA BASE AND PERFORMED A DEATH UPDATE AND CANCER LINKAGE OF THE FLUOROSCOPY COHORT. ANALYSIS WAS UNDERTAKEN AT NCIC EPIDEMIOLOGY UNIT, UNIVERSITY OF TORONTO	COMPLETED	U7
26. FLUOROSCOPY & CANCER IN TB PATIENTS DR. G. HOWE NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO M. CARPENTER STATISTICS CANADA	CANCER YEARS 1970-1987	AN EXTENSION OF THE CANCER LINKAGE FOR THE YEARS 1970-1987 (18 YEARS).	ONGOING	
27. ONTARIO MINERS STUDY DR. J. MULLER ONTARIO MINISTRY OF LABOUR B. HOLDEN ONTARIO WORKERS' COMPENSATION BOARD	57,000 MALES; DEATH YEARS 1955-1977 DEATH YEARS 1978-1981 (URANIUM MINERS ONLY)	THE AIM OF THE PROJECT WAS TO INVESTIGATE OCCUPATIONAL HAZARDS OF MINERS AND OTHER HIGH RISK GROUPS. THE RESULTS HAVE BEEN PUBLISHED BY THE ONTARIO MINISTRY OF LABOUR.	COMPLETED; TO BE UPDATED	R1,R2 G1-G6

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
28. ONTARIO MINERS STUDY R. KUSIAK ONTARIO MINISTRY OF LABOUR ONTARIO WORKERS' COMPENSATION BOARD	92,000 MALES; DEATH YEARS 1950-1986	THIS IS AN EXTENSION OF PREVIOUS STUDIES. IT IS INTENDED TO INVESTI- GATE OCCUPATIONAL HAZARDS OF MINERS AND OTHER HIGH RISK GROUPS. DEATH LINKAGE OF THE FILES IS CURRENTLY IN PROGRESS.	ONGOING	
29. ONTARIO MINERS 'ALIVE' FOLLOW-UP FEASIBILITY STUDY DR. H. STOCKER ATOMIC ENERGY CONTROL BOARD		THIS STUDY EXAMINES THE FEASIBILITY OF USING AVAILABLE DATA SOURCES FOR 'ALIVE' FOLLOW-UP TO COMPLEMENT MORTALITY SEARCHES. THE RESULTS OF THE STUDY ARE EXPECTED TO IMPROVE THE QUALITY OF DEATH SEARCHES IN OCCUPATIONAL MORTALITY	COMPLETED	U2
30. BRITISH COLUMBIA BREAST CANCER STUDY DR. K. STAVRAKY UNIVERSITY OF WESTERN ONTARIO	325,000 FEMALES; DEATH YEARS 1950-1980	THIS STUDY INVESTIGATED THE AGE AT WHICH WOMEN BEAR THEIR FIRST FULL TERM BIRTH AND RISK OF BREAST CANCER. A COHORT OF 1946-73 B.C. FIRST BIRTHS WAS LINKED TO THE DEATH FILE FOR 1950-1980.	COMPLETED	
31. BENDIX - SRI DR. S. KAPLAN STANFORD RESEARCH INSTITUTE DR. M. FINKELSTEIN ONTARIO MINISTRY OF LABOUR	1,700 MALES AND FEMALES; DEATH YEARS 1950-1979	THE STUDY INVESTIGATED THE MORTALITY OF ASBESTOS WORKERS. MONSON ROUTINE RUNS WERE CARRIED OUT WHICH TAKE INTO ACCOUNT THE POSSIBLE LATENCY PERIOD FOR DEVELOP- MENT OF SPECIFIC CANCERS.	COMPLETED	
32. INCO-FALCONBRIDGE INTERNAL LINKAGE R. ROBERTS MCMASTER UNIVERSITY	62,000 INCO WORKERS; 11,500 FALCONBRIDGE WORKERS	THE AIM WAS TO DERIVE MORE COMPLETE EXPOSURE HISTORIES OF NICKEL WORKERS.	COMPLETED	
33. INCO DEATH SEARCH R. ROBERTS MCMASTER UNIVERSITY	62,000 MALES; DEATH YEARS 1940-1949	THE AIM WAS TO INVESTIGATE THE MORTALITY OF INCO NICKEL WORKERS IN THE 1940-49 PERIOD.	COMPLETED; TO BE UPDATED	12,13,16
34. INCO NICKEL WORKERS R. ROBERTS OCCUPATIONAL HEALTH PROGRAM MCMASTER UNIVERSITY	54,000 MALES; DEATH YEARS 1950-1976	THE PURPOSE OF THE STUDY WAS TO INVEST- IGATE THE MORTALITY AMONG NICKEL WORKERS INCLUDING A COMPREHENSIVE STUDY OF SUSPECTED DANGERS AT LOWER EXPOSURE LEVELS.	COMPLETED; TO BE UPDATED	16

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
35. INCO STUDY R. ROBERTS MCMASTER UNIVERSITY	62,000 MALES; DEATH YEARS 1977-1984	THE AIM OF THIS PROJECT WAS TO UPDATE A PREVIOUS STUDY WHICH EXAMINED THE MORTALITY OF NICKEL WORKERS IN THE INCO WORK FORCE IN SUDBURY AND PORT COLBORNE, ONTARIO. THE EFFECTS OF NICKEL AND ITS POTENTIAL CARCINOGENESIS ARE CURRENTLY THE FOCUS OF MUCH INTERNATIONAL INTEREST. THIS STUDY WILL CONSTITUTE A MAJOR SOURCE FOR AN INTERNATIONAL GROUP OF EPIDEMIOLOGISTS WHO WILL COMBINE DATA FROM A NUMBER OF RELEVANT NICKEL STUDIES INTO A SINGLE ANALYSIS. THE DATA ARE CURRENTLY BEING ANALYZED AT MCMASTER.	ONGOING	
36. FALCONBRIDGE NICKEL WORKERS DR. H. SHANNON OCCUPATIONAL HEALTH PROGRAM MCMASTER UNIVERSITY	FALCONBRIDGE: 11,500 MALES; DEATH YEARS 1950-1976	THIS STUDY WAS TO INVESTIGATE MORTALITY AMONG NICKEL WORKERS IN SUDBURY, ONTARIO.	COMPLETED;	11,15,17
	FALCONBRIDGE: 11,500 MALES; DEATH YEARS 1976-1984	AN UPDATE OF THE PREVIOUS STUDY.	COMPLETED	19
37. FIBREGLAS CANADA DR. H. SHANNON MCMASTER UNIVERSITY	FIBREGLAS: 2,600 MALES; DEATH YEARS 1950-1977	THIS STUDY WAS TO INVESTIGATE MORTALITY AMONG GLASS FIBRE WORKERS IN SARNIA, ONTARIO.	COMPLETED	14,18
	FIBREGLAS: 2,600 MALES; DEATH YEARS 1977-1984	AN UPDATE OF THE PREVIOUS STUDY.	COMPLETED	
38. RALSTON MORTALITY SEARCH DR. FRANK WHITE DALHOUSIE UNIVERSITY	1,700 MALES AND FEMALES; DEATH YEARS 1958-1981	THE PURPOSE OF THE STUDY WAS TO DETERMINE IF THERE WAS AN EXCESS OF CANCER DEATHS IN A SPECIFIC BUILDING, THE RALSTON BUILDING. 76 DEATHS WERE FOUND AND THE ANALYSIS OF THE STUDY DID NOT INDICATE AN EXCESS OF CANCER DEATHS.	COMPLETED	J1
39. NOVA SCOTIA/SASKATCHEWAN CARDIOVASCULAR DISEASE PROJECT HEALTH AND WELFARE CANADA STATISTICS CANADA DALHOUSIE UNIVERSITY NOVA SCOTIA AND SASKATCHEWAN PROVINCIAL DEPARTMENTS OF HEALTH UNIVERSITY OF SASKATCHEWAN	HOSPITAL MORBIDITY FILES 1974-76; DEATH YEARS 1977-1981	THIS PROJECT WAS UNDERTAKEN TO ASSESS THE FEASIBILITY OF USING EXISTING DATA SETS (HOSPITAL ADMISSION-SEPARATION AND MORTALITY DATA) TO EXPLAIN OBSERVED DIFFERENCES OF ACUTE MYOCARDIAL INFARCTION MORTALITY ACROSS CANADA, IN PARTICULAR TO INVESTIGATE THE QUESTION OF AMI INCIDENCE AND PROGNOSIS IN SASKATCHEWAN AND NOVA SCOTIA IN 1977.	COMPLETED	J3,J4

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
40. NOVA SCOTIA-SASKATCHEWAN HEALTH STUDY COLLABORATIVE HWC; STATISTICS CANADA; PROVINCES; UNIVERSITIES;	HOSPITAL MORBIDITY FILES: 1974-1985; DEATH YEARS 1981-85	THE INCIDENCE OF ACUTE MYOCARDIAL INFARCTION AND RELATED MORTALITY IN NOVA SCOTIA AND SASKATCHEWAN DURING 1981 AND 1985 IS BEING INVESTIGATED USING HOSPITAL ADMISSION SEPARATION RECORDS. PRIOR HOSPITAL ADMISSIONS ARE BEING SEARCHED BACK TO 1974.	ONGOING	
41. ST. REGIS INDIAN STUDY DR. NERI UNIVERSITY OF OTTAWA	3,500 MALES AND FEMALES; DEATH YEARS 1959-1967	THE PROJECT STUDIES THE MORTALITY OF ST. REGIS INDIANS TO INVESTIGATE THE HEALTH STATUS IN RELATION TO LEVELS OF FLUORIDE EXCEEDING THE ALLOWABLE STANDARDS FOR THE PERIOD 1959-67.	COMPLETED	K1
42. OTTAWA UNIVERSITY RADIATION STUDY DR. S. RAMAN UNIVERSITY OF OTTAWA	3,000 MALES; DEATH YEARS 1953-1981	A COHORT OF ARMY PERSONNEL CONSISTING OF A POPULATION EXPOSED TO ATOMIC BOMB TESTING AND TO CHALK RIVER NUCLEAR REACTOR CLEAN-UPS, AND TWO CONTROLS PER EXPOSED INDIVIDUAL WERE LINKED TO MORTALITY DATA. THE PURPOSE WAS TO INVESTIGATE A POSSIBLE EXCESS OF CANCER DEATHS. THE STUDY DID NOT INDICATE AN EXCESS OF CANCERS IN THE EXPOSED POPULATION.	COMPLETED	K2
43. MORTALITY OF ONTARIO UNDERTAKERS R. LEVINE CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY	1,500 MALES; DEATH YEARS 1928-1977	THE OBJECTIVE OF THIS STUDY WAS TO EXPLORE THE POSSIBLE CARCINOGENIC EFFECT OF EXPOSURE TO FORMALDEHYDE IN HUMANS. SINCE MORTICIANS HAVE A HIGH EXPOSURE TO FORMALDEHYDE THE MORTALITY OF THIS POPULATION WAS INVESTIGATED. THE RESULTS OF THE STUDY DID NOT SHOW AN EXCESS OF CANCERS.	COMPLETED	Q1-Q3
44. SPINA BIFIDA FOLLOW-UP DR. P. BAIRD UNIVERSITY OF BRITISH COLUMBIA	100 MALES AND FEMALES	THE AIM WAS TO STUDY SURVIVAL FOR SPINA BIFIDA PATIENTS IN B.C. THE SEARCH WAS DONE MANUALLY.	COMPLETED	
45. SHELL OIL WORKERS		THE AIM WAS TO STUDY MORTALITY IN A CANADIAN OIL REFINERY IN EAST MONTREAL. IT WAS A SMALL MANUAL SEARCH FOR DEATHS.	COMPLETED	
46. FURRIERS STUDY DR. J. SIEMIATYCKI INSTITUT ARMAND FRAPPIER		THE AIM WAS TO INVESTIGATE THE MORTALITY OF INDIVIDUALS INVOLVED IN THE FUR INDUSTRY. IT WAS A SMALL MANUAL SEARCH FOR DEATHS.	COMPLETED	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
47. THUNDER BAY GRAIN HANDLERS STUDY DR. I. BRODER GAGE RESEARCH INSTITUTE	500 MALES; DEATH YEARS 1969-1980	THE AIM WAS TO INVESTIGATE MORTALITY AMONG GRAIN HANDLERS. THE SEARCH WAS A MANUAL SEARCH OF THE DEATH MICROFICHE	COMPLETED	
48. U OF TORONTO BREAST CANCER STUDY DR. M. HALLIDAY UNIVERSITY OF TORONTO	1,020 FEMALES; DEATH YEARS 1968-1981	THE AIM OF THIS PROJECT WAS TO STUDY MORTALITY AMONG WOMEN WHO RECEIVED MAMMOGRAPHY TREATMENT. A MANUAL DEATH FOLLOW-UP WAS COMPLETED.	COMPLETED	
49. MORTALITY AFTER THE DEATH OF A SPOUSE MRS. G. JOHNSTON U. OF ALBERTA	1,018 MALES AND FEMALES MARRIED BETWEEN 1946-1973; DEATH YEARS 1950-1981	THE AIM OF THE PROJECT WAS TO STUDY MORTALITY PATTERNS AFTER THE DEATH OF A SPOUSE. THIS WAS A PILOT STUDY TO INVESTIGATE THE FEASIBILITY OF USING B.C. MARRIAGE RECORDS FOR THE STUDY. THE SEARCH WAS DONE MANUALLY. THE RESULTS OF THE STUDY SHOWED THAT A COMPUTERIZED STUDY IS TECHNICALLY POSSIBLE.	COMPLETED	
50. ARMY CLEAN UP AND BOMB TESTS COLONEL BARNES DEPARTMENT OF NATIONAL DEFENCE	1,000 MALES; DEATH YEARS 1953-1981	THE AIM OF THIS PROJECT WAS TO STUDY THE LONG TERM EFFECTS OF RADIATION TO ARMY PERSONNEL INVOLVED IN THE 1953 AND 1958 CHALK RIVER REACTOR CLEAN-UP AND THE AUSTRALIA AND NEVADA BOMB TESTS. THE SEARCH WAS DONE MANUALLY. OVERALL THE STUDY INDICATED NO EXCESS DEATHS OBSERVED FOR DISEASES ASSOCIATED WITH RADIATION.	COMPLETED	A26
51. PLUMBERS AND WELDERS STUDY DR. I. BRODER THE GAGE RESEARCH INSTITUTE	5,500 MALES; DEATH YEARS 1950-1983	THE AIM OF THIS PROJECT WAS TO INVESTI- GATE THE OCCUPATIONAL RISKS TO PLUMBERS AND WELDERS, IN PARTICULAR THE POSSIBLE EXCESS OF LUNG DISEASE. ANALYSIS OF THE DATA WAS CARRIED OUT BY THE GAGE RESEARCH INSTITUTE.	COMPLETED	
52. DOWN SYNDROME FOLLOW-UP DR. P. BAIRD UNIVERSITY OF BRITISH COLUMBIA	1,000 MALES AND FEMALES	A MANUAL SEARCH OF 1,000 DOWN SYNDROME CASES WAS CARRIED OUT TO FIND DEATHS OCCURRING OUTSIDE B.C.	COMPLETED	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
53. IMPERIAL OIL MORTALITY SEARCH DR. H. W. SHEWCHUK IMPERIAL OIL LIMITED	17,500 MALES AND FEMALES; DEATH YEARS 1964-1983	THE OBJECTIVE OF THE STUDY IS TO QUANTIFY THE HEALTH RISKS TO IMPERIAL OIL EMPLOYEES AS A RESULT OF THEIR EXPOSURE TO VARIOUS INDUSTRIAL PROCESSES ASSOCIATED WITH THE OIL INDUSTRY. THE RESULTS WERE ANALYZED BY IMPERIAL OIL LTD. A FOLLOW-UP CASE CONTROL STUDY IS BEING UNDERTAKEN	COMPLETED	T1, T2
54. SHERRITT GORDON MINES STUDY DR. R. EGEDAH CONSULTANT	1,644 MALES; DEATH YEARS 1954-1984 DEATH YEARS 1985-89	THE PURPOSE OF THE STUDY IS TO EXAMINE THE OCCUPATIONAL RISKS ASSOCIATED WITH WORKING IN THE NICKEL REFINING INDUSTRY. A DEATH SEARCH UPDATE IS IN PROGRESS.	COMPLETED ONGOING	V1, V2
55. DOW CHEMICAL MORTALITY SEARCH DR. R. EGEDAH DOW CHEMICAL CANADA INC	2,736 MALES AND FEMALES; DEATH YEARS 1950-1983	THE PURPOSE OF THE STUDY WAS TO EXAMINE THE MORTALITY PATTERNS OF EMPLOYEES IN THE SARNIA PLANT OF DOW CHEMICAL. EMPLOYEES WERE EXPOSED TO VINYL CHLORIDE MONOMER, ETHYLENE OXIDE, BENZENE, ASBESTOS AND VARIOUS SOLVENTS. AN INCREASED RISK OF MORTALITY WAS NOT FOUND FOR THIS COHORT. A PAPER HAS BEEN PUBLISHED IN CJPH.	COMPLETED	S1
56. INFANT DEATH LINKAGE FOR ONTARIO DR. C. BUCK UNIVERSITY OF WESTERN ONTARIO	6,073 MALES AND FEMALES; 1970-73 INFANT DEATHS LINK TO APPROXIMATELY 400,000 BIRTHS OCCURRING IN 1970-72.	THE PURPOSE OF THIS PROJECT WAS TO INVESTIGATE THE VARIANCE OF THE QUALITY OF PRENATAL AND POSTNATAL CARE BETWEEN REGIONS AND OVER TIME. INFANT DEATHS WERE LINKED TO BIRTHS OCCURRING IN 1970 TO 1972. STATISTICS WERE COMPARED TO THOSE FROM A PREVIOUS LINKAGE OF INFANT DEATHS RESULTING FROM BIRTHS IN 1978-79.	COMPLETED	
57. CENSUS SEARCH DR. C. BUCK UNIVERSITY OF WESTERN ONTARIO	250 STILLBIRTHS, 300 INFANT DEATHS, 350 LIVE BIRTHS RESULTING FROM BIRTHS IN 1971 TO BE LINKED TO THE 1971 CENSUS	SAMPLES OF LIVE BIRTH, STILLBIRTH AND INFANT DEATH CERTIFICATES ARE BEING LINKED TO 1971 CENSUS FORMS TO DETERMINE SOCIO-ECONOMIC FACTORS ASSOCIATED WITH THE FAMILY.	COMPLETED	
58. B.C. CANCER CONTROL AGENCY R. GALLAGHER CANCER CONTROL AGENCY OF BRITISH COLUMBIA	20,000 MALES AND FEMALES; NON-SKIN CANCER PATIENTS; DEATH YEARS 1950-1975	PATIENTS TREATED AT THE CANCER CONTROL AGENCY WERE LINKED TO THE MORTALITY DATA BASE TO ASSESS THE EFFICIENCY OF PASSIVE FOLLOW-UP VERSUS ACTIVE FOLLOW-UP BY PATIENT CONTACT.	COMPLETED	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
59. MANITOBA ELDERLY BETJE JACOBS MANITOBA DEPT OF HEALTH	350 RESPONDENTS FROM A SURVEY; DEATH YEARS 1971-1985	THE OBJECTIVE OF THE STUDY WAS TO DETER- MINE THE MORTALITY OF A COHORT OF ELDERLY MANITOBIANS TO EXAMINE A) THE FACTORS WHICH MAY SIGNAL IMPENDING DEATH AND B) THE RELATIONSHIPS WHICH EXIST BETWEEN CAUSE AND LOCATION OF DEATH AND FACTORS SUCH AS AGE, SEX AND HEALTH STATUS.	COMPLETED	
BETTY HAVENS MANITOBA DEPARTMENT OF HEALTH	350 RESPONDENTS; DEATH YEARS 1983-1990	A DEATH SEARCH UPDATE IS IN PROGRESS.	ONGOING	
60. ALBERTA MENTAL HEALTH AFFECTIVE DISORDERS DR. S. NEWMAN	4,600 PATIENTS; DEATH YEARS 1976-1985	THIS STUDY WAS UNDERTAKEN TO EXAMINE THE RISK FACTORS AND MORTALITY EXPERIENCE AMONG PATIENTS DIAGNOSED AS HAVING AN AFFECTIVE DISORDER.	COMPLETED	
61. ALBERTA MENTAL HEALTH SCHIZOPHRENIC PATIENTS DR. S. NEWMAN	4,200 PATIENTS; DEATH YEARS 1976-1985	THIS STUDY WAS UNDERTAKEN TO EXAMINE THE RISK OF MORTALITY PARTICULARLY THE RISK OF SUICIDE FOR SCHIZOPHRENIC PATIENTS. FACTORS WHICH MAY INFLUENCE SURVIVAL SUCH AS MARITAL STATUS, EDUCATION, OCCUPATION AND MEDICAL HISTORY WILL ALSO BE EXAMINED.	COMPLETED	
62. NORTHERN TELECOM DR. LOUISE DE GUIRE HOPITAL DU SACRE- COEUR DE MONTREAL	575 EMPLOYEES; DEATH YEARS 1976-1983	THIS PROJECT IS PART OF A THREE-PHASE RESEARCH PROJECT. PHASE ONE WAS AN INCIDENCE STUDY OF THE EMPLOYEES IN THE MONTREAL PLANTS OF NORTHERN TELECOM COMPANY. THIS REVEALED A HIGH RISK OF MALIGNANT SKIN MELANOMA. PHASE TWO EXAMINED THE STAND- ARDIZED MORTALITY RATE FOR THE COHORT. PHASE THREE WILL EXAMINE THE RISK FACTORS THAT CONTRIBUTED TO THE DEVELOPMENT OF MALIGNANT SKIN MELANOMAS.	COMPLETED	
63. INDIAN STUDY DR. D. WIGLE HEALTH AND WELFARE	3,000 MALES AND FEMALES; DEATH YEARS 1981-1983	THIS PROJECT IS BEING UNDERTAKEN TO DETERMINE THE AREAS OF RISK FOR CANADIAN INDIANS SO THAT APPROPRIATE CHANGES CAN BE MADE TO THE NATIVE INDIAN POLICY AND PROGRAM DEVELOPMENT. A PILOT PROJECT HAS BEEN COMPLETED WHICH WAS TO A) DEVELOP THE APPROPRIATE METHODOLOGY, B) DETERMINE THE COST OF A FULL STUDY AND C) ESTIMATE THE LEVEL OF ACCURACY FOR ASCERTAINMENT OF DEATHS.	COMPLETED	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
64. CELANESE CANADA MORTALITY STUDY DR. G. THERIAULT, M. GOLDBERG MCGILL UNIVERSITY	12,000 MALES AND FEMALES; DEATH YEARS: 1947-1986	THIS STUDY WILL EVALUATE THE OCCUPATIONAL HEALTH RISKS OF THE EMPLOYEES AND FORMER EMPLOYEES OF THE CELANESE SYNTHETIC TEXTILES PLANT AT DRUMMONDVILLE, QUEBEC. THE DATA ARE BEING ANALYZED AT MCGILL.	COMPLETED	M1
65. DOFASCO MORTALITY STUDY DR. E.S. GIBSON, W. TERRY DOFASCO INC	4,000 MALES; DEATH YEARS: 1974-86	THIS STUDY IS TO EVALUATE THE OCCUP- ATIONAL HEALTH RISKS FOR CURRENT AND FORMER FOUNDRY WORKERS AT THE DOFASCO STEEL COMPANY AT HAMILTON, ONTARIO, ESPECIALLY THE EFFECTS OF SILICA. THE ALIVE STATUS OF THE COHORT HAS FIRST BEEN ASCERTAINED. EXPOSURE AND SMOKING HISTORIES ARE AVAILABLE. ANALYSIS USING THE MONSON ROUTINE WILL BE UNDERTAKEN.	ONGOING	
66. ALBERTA FIREFIGHTERS T. GUIDOTTI UNIVERSITY OF ALBERTA	3,300 MALES-176 FROM CALGARY AND 392 FROM EDMONTON. DEATH YEARS: 1926-86	THIS STUDY WAS TO EXAMINE THE LONG-TERM HEALTH RISKS OF LOST-TO-FOLLOW-UP FIRE- FIGHTERS, DERIVED PRIMARILY FROM THE CUMULATIVE EFFECTS OF REPEATED SHORT BUT INTENSE EXPOSURES TO A GREAT VARIETY OF TOXIC SUBSTANCES ARISING OUT OF THE COMBUSTION OF AN EVER-CHANGING SPECTRUM OF CONSTRUCTION AND HOUSEHOLD MATERIALS.	COMPLETED	
67. MATERNAL DEATHS DR. PHIL BANISTER HEALTH AND WELFARE	1978-1981 BIRTH RECORDS; DEATH YEARS 1980-1981	THIS STUDY WAS UNDERTAKEN TO DETERMINE THE NUMBER OF MATERNAL DEATHS, "LATE" MATERNAL DEATHS AND ASSOCIATED RISK FACTORS.	COMPLETED	
68. NATIONAL BREAST SCREENING DR. CORNELIA BAINES DR. A.B. MILLER CLAUS WALL NCIC EPIDEMIOLOGY UNIT UNIVERSITY OF TORONTO MAUREEN CARPENTER STATISTICS CANADA	90,000 FEMALES AGED 40-59. DEATH YEARS: 1981-1988	THE NBSS RANDOMIZED CONTROL TEST STUDY GROUP IS BEING LINKED TO THE SUMMARY TAX FILES AND THE CMDB TO DETERMINE VITAL STATUS AND THE CAUSES OF DEATH FOR THOSE NBSS WOMEN WHO HAVE DIED. THE STUDY IS TO ASSESS THE EFFICIENCY OF MAMMOGRAPHY AND PHYSICAL EXAM- INATION IN SCREENING FOR BREAST CANCER. THE LINKAGE IS COMPLETED AND THE DATA IS BEING ANALYZED	ONGOING	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
69. CANADA FITNESS DR. YANG MAO HEALTH AND WELFARE CANADA CORA CRAIG CANADIAN FITNESS & LIFESTYLES RESEARCH INSTITUTE	23,400 MALES & FEMALES. DEATH YEARS: 1981-1988	THE 1981 NATIONAL SURVEY ON FITNESS IS BEING LINKED TO THE CMDB TO ASCERTAIN MORTALITY RATES BY AGE & SEX FOR DIFFERENT DISEASES TO EXAMINE THE POSSIBLE RELATION- SHIPS BETWEEN FITNESS AND ACTIVITY LEVELS AND THE RISK OF PREMATURE DEATH, OR DEATH DUE TO CARDIOVASCULAR DISEASE OR CANCER.	ONGOING	
70. METRO TORONTO FIREFIGHTERS DR. KRISTAN L'ABBE INDUSTRIAL DISEASE STANDARDS PANEL	6100 MALES & FEMALES. DEATH YEARS: 1940-1988	THE PURPOSE OF THIS STUDY WAS TO DETERMINE IF PROFESSIONAL FIREFIGHTERS HAVE AN EXCESS RISK OF MORTALITY FROM ANY SPECIFIC CAUSE OF POLICY DECISIONS CONCERNING COMPENSATION FOR DEATH AND TO PROVIDE A SCIENTIFIC BASIS FOR FIREFIGHTERS, OR THEIR DEPENDENTS, FOR AN OCCUPATIONALLY RELATED CAUSE OF DEATH.	COMPLETED	
71. PEARSON AIRPORT PCB EXPOSURE MR. M.W. BUDARICK TRANSPORT CANADA	41 INDIVIDUALS. DEATH YEARS: 1977-1989. ONTARIO CANCER REGISTRY: 1977-1988.	THIS STUDY IS A MANUAL LINKAGE OF INDIV- IDUALS INVOLVED IN THE CLEAN-UP OF PCB MATERIALS FOLLOWING AN ELECTRICAL TRANS- FORMER EXPLOSION AND FIRE IN 1977 AT PEARSON AIRPORT. THE LINKAGE IS COMPLETED. THE ANALYSIS IS IN PROGRESS AT H&WC, LCDC.	ONGOING	
72. FEASIBILITY STUDY OF MORTALITY AND CANCER BY OCCUPATION AND OTHER SOCIO-ECONOMIC CHARACTER- ISTICS DR. LORRAINE MARRETT ONTARIO CANCER TREATMENT AND RESEARCH FOUNDATION	10,000 MALES & FEMALES AGED 25-64 SELECTED FROM 1986, 20% SAMPLE CENSUS DATA FOR ONTARIO. DEATH YEARS: 1986 - ?	FEASIBILITY STUDY FOR FOLLOWING A CENSUS BASED COHORT FOR CANCER AND DEATH, IN ORDER TO EXAMINE EFFECTS OF INDIVIDUAL, FAMILY AND HOUSEHOLD SOCIO-ECONOMIC VARIABLES INCLUDING OCCUPATION AND INDUSTRY.	ONGOING	
73. POLYSAR NI JADON JIM JULIEN MCMASTER UNIVERSITY	6100 MALE EMPLOYEES. DEATH YEARS: 1950-1987.	THIS STUDY WAS UNDERTAKEN TO EXAMINE RISK FACTORS AND MORTALITY EXPERIENCE OF POLYSAR EMPLOYEES IN SARNIA.	COMPLETED	
74. PCB MANITOBA DR. ANNALEE YASSI UNIVERSITY OF MANITOBA	2200 MALE EMPLOYEES. DEATH YEARS: 1950-1989.	THIS STUDY WAS UNDERTAKEN TO EXAMINE THE RISK FACTORS AND MORTALITY EXPERIENCE OF EMPLOYEES WHO WERE EXPOSED TO PCB'S WHILE WORKING FOR FEDERAL PIONEER IN WINNIPEG.	COMPLETED	

NAME OF PROJECT AND CONTACT PERSON	NO. OF INDIVIDUALS AND DEATH YEARS SEARCHED	DESCRIPTION OF PROJECT	LINKAGE STATUS	REFERENCES
<p>75. STIRLING COUNTY MORTALITY STUDY</p> <p>DR. JANE MURPHY PSYCHIATRIC EPIDEMIOLOGY UNIT, MASSACHUSETTS GENERAL HOSPITAL</p>	<p>2400 MALES & FEMALES DEATH YEARS: 1970-1989</p>	<p>TO PROVIDE MORTALITY INFORMATION TO HELP DETERMINE THE EPIDEMIOLOGY OF PSYCHIATRIC DISORDERS, TO INVESTIGATE PREDICTOR VARIABLES FOR MORTALITY RISK WITHIN A LARGE LONGITUDINAL STUDY IN PSYCHIATRIC EPIDEMIOLOGY (INVOLVING THE U.S. AND CANADA WHICH BEGAN IN 1948). THE OVERALL STUDY IS TO PROVIDE A BETTER UNDERSTANDING TO HELP LEAD TO IMPROVED TREATMENT AND REDUCED MORTALITY</p>	<p>ONGOING</p>	<p></p>

SELECTED REFERENCES PERTAINING TO RECORD LINKAGE AND USES OF THE MORTALITY DATA BASE

A. STATISTICS CANADA

- A1. Fellegi IP, Sunter AB.
A theory of record linkage.
J Am Stat Assoc 1969; 64: 1183-1210.
- A2. Smith ME.
Methods for computer linkage of hospital admission-separation records into cumulative health histories.
Meth Inf Med 1975; 14: 118-125.
- A3. Smith ME, Newcombe HB.
Accuracies of computer versus manual linkages of routine health records.
Meth Inf Med 1979; 18: 89-97.
- A4. Smith ME.
Automated medical follow-up and delayed industrial risks.
In: Gentner NE, Unrau P, eds.
Proceedings of the first international conference on health effects of energy production.
Chalk River, Ontario: Chalk River Nuclear Laboratories, 1979: publication no. AECL-6958, 125-132.
- A5. Smith ME.
The present state of automated follow-up in Canada. Part I: Methodology and files.
J Clinical Computing 1980; 9: 1-18.
- A6. Smith ME, Silins J, Lindsay JP.
The present state of automated follow-up in Canada. Part II: The products.
J Clinical Computing 1980; 19-30.
- A7. Smith ME, Newcombe HB.
Automated follow-up facilities in Canada for monitoring delayed health effects.
Am J Public Health 1980; 70: 1261-1268.

A8. Hill T.

Generalized iterative record linkage system: GIRLS. (Glossary, Concepts, Strategy Guide, User Guide)
Ottawa: Statistics Canada, 1981; report from the Research and General Systems, Informatics Services and Development Division, Tunney's Pasture, Ottawa K1A 0T6

A9. Smith ME.

Long-term medical follow-up in Canada.
In: Peto R, Schneiderman M, eds. Quantification of occupational cancer. Banbury Report 9. Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory, 1981: 675-688.

A10. Smith ME, Silins J.

Generalized iterative record linkage system.
In: Social Statistics Section, Proceedings of the American Statistical Association, 1981: 128-137.

A11. Smith ME.

Health hazards in mining: the files and facilities.
In: Gomez M, ed. Radiation hazards in mining: control, measurement, and medical aspects. Kingsport, Tennessee. Kingsport Press, Inc., 1981; 836-841.

A12. Smith ME.

Value of record linkage studies in identifying populations at genetic risk and relating risk to exposures.
In: Bora KC, Douglas GR, Nestmann ER, eds. Chemical metagenesis, human population monitoring and genetic risk assessment. Progress in Mutation Research Vol. 3. Amsterdam Elsevier Biomedical Press, 1982; 85-98.

A13. Smith ME, Newcombe HB.

Use of the Canadian Mortality Data Base for epidemiological follow-up.
Can J Public Health 1982; 73: 39-46.

- A14. Smith ME.**
Development of a national record linkage program in Canada.
In: Survey Research Methods Section, Proceedings of the American Statistical Association, 1982: 303-308.
- A15. Smith ME, Newcombe HB, Dewar R.**
Proposed procedures for the Alberta Cancer Registry death clearance.
Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada, 1983; publication OEHRU - No. 1.
- A16. Smith ME, Newcombe HB, Dewar R.**
The use of diagnosis in cancer registry death clearance.
Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada, 1983; publication OEHRU - No. 2.
- A17. Smith ME, Newcombe HB, Dewar R.**
Future linkages involving cancer records and death clearance, plus detailed recommendations for data collection in the future.
Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada, 1983; publication OEHRU - No. 3.
- A18. Smith ME, Newcombe HB, Dewar R.**
Automated nationwide death clearance of provincial cancer registry files.
In: Section on Survey Research Methods. Proceedings of the American Statistical Association, 1983: 300-305.
- A19. Smith ME, Newcombe HB.**
Looking for delayed harm in a mobile population.
(A discussion of the opportunities for improved assessment of occupational and environmental health problems.)
Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada, 1983; publication OEHRU - No. 4.

A20. Smith ME.

Record linkage: organizing the facts together.

In: Bennett EM and Trunte B. eds.
Mental health information systems:
problems and prospects.
Edwin Mellen Press, (P.O. Box 450,
Lewiston, New York) 1983; 263-281.

A21. Smith ME.

Record linkage: present status and methodology.

J Clinical Computing 1984; Vol XIII:
52-69.

A22. Smith ME.

Record keeping and data preparation practices to facilitate record linkage.

In: Kilss B, Alvey W, eds.
Record linkage techniques - 1985.
Proceedings of the workshop on exact matching methodologies.
Washington: Department of the Treasury, Internal Revenue Service, Statistics of Income Division, 1985: 321-326.

A23. Hill T, Pring-Mill F.

Generalized iterative record linkage system.

In: Kilss B, Alvey W, eds.
Record linkage techniques - 1985.
Proceedings of the workshop on exact matching methodologies.
Washington: Department of the Treasury, Internal Revenue Service, Statistics of Income Division, 1985: 327-333.

A24. Silins J, Semenciw R, Morrison H, Lindsay J, Sherman G, Mao Y, Wigle D.

Risk factors for perinatal mortality in Canada.

Can Med Assoc J 1985; 133: 1214-1219.

A25. Lindsay J.

Health applications of record linkage - facilities and methods.

Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada 1984.

- A26. Smith M. Lalonde P.
Mortality follow-up of canadian servicemen involved in decontamination duties at Chalk River and observation of nuclear bomb tests.
Ottawa: Occupational and Environmental Health Research Unit, Statistics Canada. 1984.
- A27. Fair ME, Lalonde P.
Missing identifiers and the accuracy of individual follow-up.
Proceedings of the symposium on Statistical Uses of Administrative Data.
Ottawa: Statistics Canada 1988: 95-107.
- A28. Newcombe HB, Fair ME, Lalonde P.
Concepts and practices that improve probabilistic linkage.
Proceedings of the symposium on Statistical Uses of Administrative Data.
Ottawa: Statistics Canada 1988: 127-138.
- A29. Eagen M, Hill T.
Record linkage-methodology and its application.
Proceedings of the symposium on Statistical Uses of Administrative Data.
Ottawa: Statistics Canada 1988: 139-150.
- A30. Fair ME.
Radiation studies in Canada: the national files and facilities needed.
In Termarsh DJ and Myersdk, eds.
Proceedings at the Workshop/Symposium on Radiation Protection: Past and Future held in 1989 March 20-22 at AECL, Chalk River, Ontario.
AECL-9959, 1989: 61-69
ISSN 0067 - 0367
- A31. Fair ME, Newcombe HB.
Internal linkages of the Alberta Cancer Registry.
Ottawa: Occupational and Environmental Health Research Section, CCHI, Statistics Canada, 1989.
OEHRs-No. 5.
- A32. Fair ME, Newcombe HB.
Death clearance in provincial cancer registries.
Ottawa: Occupational and Environmental Health Research Section, CCHI, Statistics Canada, 1989.
OEHRs-No. 6.

A33. Statistics Canada.

Data collection package.

Available from: Occupational and Environmental Health Research Section CCHI, Statistics Canada, Stn. 18Q, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario K1A 0T6, 1990; Publication No. OEHR5-7(E).

A34. Statistique Canada.

Trousse sur la collecte des donnees.

Section de la recherche sur l'hygiene du travail et de l'environnement, CCIS Statistiques Canada 18 etage, Edifice R.H. Coats, Parc Tunney, Ottawa, Ontario, K1A 0T6, 1990: Publication No. OEHR5-7(F).

A35. Statistics Canada.

Data collection package/ PC installation guide and user's manual. Version 1.5.

Available from: Occupational and Environmental Health Research Section, CCHI Statistics Canada, Stn. 18Q, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario K1A 0T6, 1990; Publication No. OEHR5-8(E).

A36. Statistique Canada

Trousse sur la collecte des donnees (DCP/CP). Ordinateurs personnels IBM ou compatibles. Version 1.5.

Section de la recherche sur l'hygiene du travail et de l'environnement, CCIS Statistique Canada 18 etage, R.H. Coats Edifice, Parc Tunney, Ottawa, Ontario, K1A 0T6 November 1990; Publication No. OEHR5-8(F).

A37. Fair ME, Lalonde P, Newcombe HB.

Tables of odds for partial agreements of male given names used in linking records.

Available from: Occupational and Environmental Health Research Section, CCHI Statistics Canada Stn. 18Q, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario K1A 0T6, 1990; Publication No. OEHR5-9.

A38. Carpenter M, Fair ME.

A standard data collection package for medical follow-up studies/ Trousse de collecte de donnees pour les etudes de suivi medical.

Ottawa: Statistics Canada, Canadian Centre for Health Information. Health Reports, 1990; CAT. 82-003, 2(2); 157-173

- A39. Jordan-Simpson DA, Fair ME, Poliquin C.**
Canadian farm operators study: methodology.
Health Reports, 1990; Cat. No. 82-003, 2(2); 141-155.
- A40. Fair ME, Lalonde P, Newcombe HB.**
Applications of exact ODDS for partial agreements of names in record linkage.
Computers and Biomedical Research 1991; 24; 58-71.
- A41. Newcombe HB, Fair ME, Lalonde P.**
Discriminating powers of partial agreements on names for linking personal records. Part I: the logical basis.
Meth. Inform. Med. 1989; 28; 86-91.
- A42. Newcombe HB, Fair ME, Lalonde P.**
Discriminating powers of partial agreements of names for linking personal records. Part II: the empirical test.
Meth. Inform. Med. 1989; 28; 92-96.
- A43. Dobson D, Buzdygan K.**
Brief notes on the farm study bibliographic data base.
Occupational and Environmental Health Research Section, Stn. 18Q, R.H. Coats Building, Statistics Canada, Ottawa, Ontario K1A 0T6; September 1990.
- A44. Occupational and Environmental Health Research Section.**
Farmer's bibliographic data base.
Available from: Occupational and Environmental Health Research Section, Stn. 18Q, R.H. Coats Building, Statistics Canada, Ottawa, Ontario; March 1991.
- A45. Fair ME.**
Health of the rural population: occupational mortality patterns.
Presented at conference on Rural and Small Town Canada: Economic and Social Reality. Organized by Statistics Canada in co-operation with Agriculture Canada and the Agriculture and Rural Restructuring Group, Ottawa Congress Centre, Oct 17-19, 1990. (Proceedings in press).
- A46. Fair ME.**
Looking for delayed harm in a mobile population in the 1990's.
Paper presented at Workshop on Environmental Health Status; March 5-6, 1990; Statistics Canada, Ottawa, Ontario. (Proceedings in press).

- A47. Fair ME, Poliquin C, Dobson D.**
Regional variations in heart disease: the methodology developed for the Nova Scotia-Saskatchewan heart study.
Paper regarding implementation of the cardiovascular disease data incidence conference; Halifax, Nova Scotia; April 26, 1990.
- A48. Carpenter M, Fair ME.**
A data collection package for occupational health studies.
Medical Post, Liaison, Occupational Medical Association of Canada; July 1990; 1-9.
- A49. Lalonde P.**
Availability tables for the Canadian Mortality Data Base (CMDB). 1950-1989
Available from: Occupational and Environmental Health Research Section, 18Q, R.H. Coats Building, Statistics Canada, Tunney's Pasture, Ottawa, Ontario K1A 0T6; 1991. OEHS - No. 10.
- A50. Fair M, Carpenter M, Lalonde P.**
Long-term medical follow-up studies.
Poster presentation at 2nd Canadian Epidemiology Conference, Edmonton, Alberta; May 1991.
- A51. Carpenter M, Cyr P, Fair ME, Lalonde P.**
National breast screening mortality study.
Poster presentation at 2nd Canadian Epidemiology Conference, Edmonton, Alberta; May 1991.
- A52. Wilkins R, Sherman GJ, Best PAF.**
Births outcomes and infant mortality by income in urban Canada, 1986.
Health Reports, 1991; Cat. No. 82-003, 3(1); 7-31.
- A53. Wilkins R, Sherman GJ, Best PAF.**
Issues de grossesse et mortalité infantile selon le revenu dans les régions urbaines du Canada en 1986.
Rapports sur la Santé 1991; Cat. No. 82-003, 3(1); 7-31.
- A54. Wilkins R, Adams O, Brancker A.**
Changes in mortality by income in urban Canada from 1971 to 1986.
Health Reports 1989; Cat. no. 82-003, 1(2); 137-174.

- A55. Wilkins R, Adams O, Brancker A.**
*Evolution de la mortalite selon le revenu
dans les regions urbaines du Canada entre
1971 et 1986.*
Rapports sur la Sante, 1989; Cat. no. 82-003,
1(2); 137-174.
- A56. Dowler JM, Jordan-Simpson DA.**
*Participation of people with disabilities
in selected activities.*
Health Reports, 1990; Cat. No. 82-003, 2(3); 269-277.
- A57. Dowler JM, Jordan-Simpson DA.**
Canada's disabled population in institutions.
Health Reports, 1990; Cat. No. 82-003, 2(1);
27-36.
- A58. Lalonde P, Buzdygan K.**
*The Historic Canadian Cancer Data Base (CCDB):
Availability of Information by Province of Residence
and Year of Diagnosis, 1970-1987.*
Available from Occupational and Environmental Health
Research Section, Canadian Centre for Health Information,
Statistics Canada, 18th Floor, R. H. Coats Building,
Tunney's Pasture, Ottawa, Ontario, K1A 0T6; 1992.
Publication OEHRs-No. 11

**B. HEALTH AND WELFARE (INCLUDING ATOMIC
ENERGY CONTROL BOARD)**

- B1. Morrison HI, Wigle DT, Stocker H,
deVilliers AJ.**
*Lung cancer mortality and radiation exposure
among the Newfoundland Fluorspar miners.*
In: Gomez M, ed. Radiation hazards in mining:
control, measurement and medical aspects.
Proceedings of the international conference
at Golden, Colorado.
New York: Society of Mining Engineers,
of American Institute of Mining,
Metallurgical, and Petroleum Engineers,
Inc., 1981; 372-376.
- B2. Morrison HI, Semenciw RM, Mao Y, Corkill DA,
Dory AB, deVilliers AJ, Stocker H, Wigle DT.**
*Lung cancer mortality and radiation exposure
among the Newfoundland fluorspar miners.*
In: Stocker H, ed. Occupational radiation
safety in mining. Proceedings of the
International Conference, Vol 1.
Toronto: Canadian Nuclear Association,
1985: 365-368.
- B3. Johansen H, Semenciw R, Morrison H, Mao Y,
Verdier P, Smith ME, Wigle DT.**
*Important risk factors for death in adults:
a 10-year follow-up of the Nutrition Canada
Survey cohort.*
CMAJ 1987; Vol 136: 823-828.
- B4. Morrison HI, Semenciw RM, Mao Y, Wigle DT.**
*Cancer mortality among a group of
fluorspar miners exposed to radon progeny.*
Amer J of Epid, 1988; Vol 128, no 6:
1266-1275.
- B5. Mao Y, Semenciw R, Morrison H, Koch M,
Hill G, Fair M, Wigle D.**
*Survival rates among patients with cancer in
Alberta in 1974-78.*
CMAJ 1988; Vol 138: 1107-1113.
- B6. Wigle DT, Semencew RM, Wilkins K, Riedel D,
Ritter L, Morrison HI, Mao Y.**
*Mortality study of canadian male farm operators:
non-hodgkin's lymphoma mortality and agricultural
practices in Saskatchewan.*
J Nat'l Cancer Instit 1990: Vol 82(7): 575-582.

**B7. Wigle DT, Arraiz G, Mao Y.
"Morality Follow-UP Study of
the Canada Health Survey Cohort"
In: Carpenter M. and Fair ME, eds.
Proceedings of the Record Linkage
Sessions and Workshop. Canadian
Epidemiology Research Conference,
August 1989. Available from
Occupational and Environmental
Health Research Section, CCHI
Statistics Canada, 18th Floor,
R.H. Coats Building, Tunney's Pasture,
Ottawa, Ontario, K1A 0T6.**

C. MEDICAL RESEARCH COUNCIL

- C1. MRCC Committee on the Implications of Record Linkage for Health-Related Research.**
Health research uses of record linkage in Canada.
Ottawa: Medical Research Council, 1968;
MRC report no.3.

D. ATOMIC ENERGY OF CANADA LIMITED

- D1. Newcombe HB.**
A method of monitoring nationally for possible delayed effects of various occupational environments.
Ottawa: Environmental Secretariat,
National Research Council of Canada,
1974; publication NRCC No. 13686.
- D2. Newcombe HB.**
Cancer following multiple fluoroscopies.
Chalk River, Ontario: Chalk River
Nuclear Laboratories,
1975; publication no. AECL-5243.
- D3. Newcombe HB.**
A plan for a continuing follow-up of persons exposed to radiation in the Canadian nuclear power industry.
Chalk River, Ontario: Chalk River
Nuclear Laboratories,
1976; publication no. AECL-5538.
- D4. Weeks JL.**
A registry for the study of the health of radiation workers employed by Atomic Energy of Canada Limited.
Pinawa, Manitoba: Whiteshell Nuclear Research
Establishment, 1978; publication no.
AECL-6194.
- D5. Weeks, JL.**
A study of the health of the employees of Atomic Energy of Canada Limited.
I. Setting up the study.
Pinawa, Manitoba: Whiteshell Nuclear Research
Establishment, 1981; publication no.
AECL-6813.

- D6. Werner MM, Myers DK, Morrison DP.**
Follow-up of CRNL employees involved in the NRX reactor clean-up.
Chalk River, Ontario: Chalk River Nuclear Laboratories, 1982; publication no. AECL-7760.
- D7. Werner MM, Myers DK, Morrison DP.**
Follow-up of AECL employees involved in the decontamination of NRU in 1958.
Chalk River, Ontario: Chalk River Nuclear Laboratories,
1982; publication no. AECL-7901.
- D8. Myers DK, Werner MM, Cowper G, Morrison DP, Holford RM, Smith ME.**
Follow-up of past employees of Chalk River Nuclear Laboratories.
In: *Proceedings, 3rd International Symposium of the Society for Radiological Protection (U.K.), Vol I.*
Inverness, Scotland, 1983: 332-340.
- D9. Werner MM, Myers DK, Morrison DP.**
Updated follow-up of long-term Chalk River employees.
Chalk River, Ontario: Chalk River Nuclear Laboratories,
1983; publication no. AECL-8183.
- D10. Weeks JL, Johnston LH.**
A study of the health of the employees of Atomic Energy of Canada Limited.
II. Implementing the study.
Pinawa, Manitoba: Whiteshell Nuclear Research Establishment,
1984; publication no. AECL-7828.
- D11. Johnston LH, Werner MM.**
A study of the health of the employees of Atomic Energy of Canada Limited.
III. Upgrading the data base.
Pinawa, Manitoba: Whiteshell Nuclear Research Establishment,
1987; publication no. AECL-8408.

**D12. Howe GR, Weeks JL, Miller AB, Chiarelli AM,
Etazadi-Amoli J.**

*A study of the health of the employees of
Atomic Energy of Canada Limited.
IV. Analysis of mortality during the period
1950-1981.*

**Pinawa, Manitoba: Whiteshell Nuclear Research
Establishment,
1987; publication no. AECL-9442.**

D13. Werner MM, Myers DK.

*Record linkage and epidemiological follow-up
of radiation workers in Canada.*

**Presented at the International Conference on
Risk Assessment of Energy Production and
Modern Technology, Kyoto, Japan, 1988
April 25-26.**

D14. Myers D, Werner MM.

*Relative risks and occupational exposure to
radiation.*

**Presented at Workshop/Symposium on Radiation
Protection: Past and Future, AECL,
Chalk River, Ontario, 1989 March 20-22.**

**E. ELDORADO RESOURCES LIMITED (FORMERLY ELDORADO
NUCLEAR LIMITED)**

- E1. Abbatt JD, Newcombe HB.**
Eldorado Nuclear retrospective epidemiology project: A retrospective study of uranium workers from mines, mills and refinery.
In: Gomez M, ed.
Radiation hazards in mining: control, measurement, and medical aspects.
Proceedings of the international conference at Golden, Colorado.
New York: Society of Mining Engineers, of American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc., 1981: 369-371.
- E2. Newcombe HB, Smith ME, Abbatt JD.**
Linkage procedures for the Eldorado mortality searches -- ENL-LINK-2.
Ottawa: Eldorado Nuclear Limited, and Statistics Canada, 1982.
- E3. Abbatt JD, Hamilton TR, Weeks JL.**
Epidemiological studies in three corporations covering the Canadian nuclear fuel cycle.
In: Biological effects of low-level radiation.
Vienna: International Atomic Energy Agency, 1983; publication no. IAEA-SM-266/9: 351-361.
- E4. Newcombe HB, Strugnell A, Smith ME, Lalonde P, Poliquin C.**
Correcting for correlated disagreements of identifying information -- ENL-LINK-2 supplement no. 1.
Ottawa: Eldorado Nuclear Limited, and Statistics Canada, 1983.
- E5. Newcombe HB, Smith ME, Poliquin C, Lalonde P, Abbatt JD.**
Final computer procedures for the Eldorado mortality searches -- ENL-LINK-2.
Ottawa: Eldorado Nuclear Limited, and Statistics Canada, 1983.
- E6. Newcombe HB, Lalonde P, Smith ME, Poliquin C, Strugnell A, Abbatt JD.**
Computer procedure for the Eldorado nominal roll internal links -- ENL-INTERNAL-LINK program description.
Ottawa: Eldorado Nuclear Limited, and Statistics Canada, 1983.

- E7. Newcombe HB, Abbatt JD.
*Probabilistic record linkage in
epidemiology - principles employed.*
Ottawa: Eldorado Nuclear Limited, 1983.
- E8. Abbatt JD, Newcombe HB.
*Personal privacy concerns threaten
epidemiology.*
Community Med 1983; 5: 321-326.
- E9. Newcombe HB.
Strategy and art in automated death searches.
Am J Publ Health 1984; 74: 1302-1303.
- E10. Abbatt JD, Newcombe HB
*The Eldorado Epidemiology Project - Health Follow-Up
of Eldorado Uranium Miners,*
Eldorado Resources Limited, Ottawa, December 1985 (18 pages).

**F. NATIONAL CANCER INSTITUTE OF CANADA, AND
COLLABORATING ORGANIZATIONS (INCLUDING
HEALTH AND WELFARE CANADA, STATISTICS CANADA,
ATOMIC ENERGY OF CANADA LIMITED AND ELDORADO,
WHERE THERE IS OVERLAPPING AUTHORSHIP)**

F1. Howe GR, Lindsay J, Coppock E, Miller AB.

*Isoniazid exposure in relation to cancer
incidence and mortality in a cohort of
tuberculosis patients.*

Int J Epidemiol 1979; 8: 305-312.

F2. Howe GR, Lindsay J, Miller AB.

*Cancer incidence and mortality in
relation to occupation in 700,000
members of the Canadian labour force.*

Det Prev Cancer 1980; 3: 487-497.

F3. Howe GR, Sherman GJ.

*Radiation hazards: Genetic and
epidemiologic evidence and control
measures.*

Det Prev Cancer 1981; 4: 9-13.

F4. Howe GR, Lindsay J.

*A generalized iterative record linkage
computer system for use in medical
follow-up studies.*

Comput Biomed Res 1981; 14: 327-340.

F5. Howe GR, Miller AB, Sherman GJ.

*Breast cancer mortality following
fluoroscopic irradiation in a cohort of
tuberculosis patients.*

Det Prev Cancer 1982; 5: 175-178.

F6. Wigle DT, Mao Y, Howe GR, Lindsay, J.

*Comparison of occupation on survey and
death records in Canada.*

Can J Publ Health 1982; 73: 242-247.

F7. Miller AB, Howe GR, Wall C.

*The national study of breast cancer
screening.*

Clin Investlg Med 1981; 4: 227-258.

F8. Howe GR, Lindsay JP.

*A follow-up study of a ten-percent
sample of the Canadian labour force:
Cancer mortality in males, 1965-1973.*

J Natl Cancer Inst 1983; 70: 37-44.

F9. Howe GR, Fraser D, Lindsay J, Presnal B, Yu SZ.

Cancer mortality (1965-77) in relation to diesel fume and coal exposure in a cohort of retired railway workers.

J Natl Cancer Inst 1983; 70: 1015-1019.

F10. Newcombe HB, Smith ME, Howe GR, Mingay J, Strugnell A, Abbatt JD.

Reliability of computerized versus manual death searches in a study of the health of Eldorado uranium workers.

Computers Biol Med 1983; 13: 157-169.

F11. Howe GR.

The epidemiology of radiogenic breast cancer.

In: Boice JD Jr, Fraumeni JF Jr, eds.

Radiation carcinogenesis: Epidemiology and biological significance.

New York: Raven Press, 1984: 119-129.

F12. Nair RC, Abbatt JD, Howe GR, Newcombe HB, Frost SE.

Mortality experience among workers in the uranium industry.

In: Stocker H, ed.

Occupational radiation safety in mining.

Proceedings of the International Conference, vol. 1.

Toronto: Canadian Nuclear Association, 1985: 354-364.

F13. Howe GR.

Use of computerized record linkage in follow-up studies of cancer epidemiology in Canada.

In: NCI Monograph no 67.

Bethesda, Maryland: National Cancer Institute. 1985: 117-121.

F14. Howe GR, Nair RC, Newcombe HB, Miller AB, Burch JD, Abbatt JD.

Lung cancer mortality (1950-80) in relation to radon daughter exposure in a cohort of workers at the eldorado port radium uranium mine: possible modification of risk by exposure rate.

JNCI 1987; Vol 79, No 6: 1255-1260.

F15. Miller AM

"The Canadian National Breast Screening Study"
in Day NE, Miller AB eds.
Screening for Breast Cancer, International Union
Against Cancer, Hans Huber Publishers,
1988; 51-58.
ISBN 0-920887-26-0

F16. Howe GR, Nair RC, Newcombe HB, Miller AB, Abbatt JD,

"Lung cancer mortality (1950-80) in relation to radon
daughter exposure in a cohort of workers at the Eldorado
Beaverlodge uranium mine," Journal of the (U.S.) National
Cancer Institute 77, 357-362.

**G. ONTARIO MINISTRY OF LABOUR -- ONTARIO
WORKERS' COMPENSATION BOARD -- ATOMIC ENERGY
CONTROL BOARD**

- G1. McCracken WJ.**
*Radon gas, bronchogenic carcinoma --
Ontario Experience.*
In: Gomez M, ed.
Radiation hazards in mining: control,
measurement, and medical aspects.
Proceedings of the international
conference at Golden, Colorado.
New York: Society of Mining Engineers,
of American Institute of Mining,
Metallurgical, and Petroleum Engineers,
1981; 819-822.
- G2. Finkelstein MM.**
*Mortality among long-term employees of an
Ontario asbestos cement factory.*
Br J Ind Med 1983; 40: 138-144.
- G3. Finkelstein MM.**
*Mortality among employees of an Ontario
asbestos cement factory.*
Am Rev Respir Dis 1984; 129: 754-761.
- G4. Muller J, Wheeler WC, Gentleman JF,
Suranyi G, Kusiak R, Smith ME.**
The Ontario miner's mortality study.
In: Gomez M, ed. Radiation hazards in mining:
control, measurement and medical aspects.
Proceedings of the international conference
at Golden, Colorado.
New York: Society of Mining Engineers, of
American Institute of Mining, Metallurgical
and Petroleum Engineers, Inc. 1981; 359-362.
- G5. Muller J, Wheeler WC, Gentleman JF,
Suranyi G, Kusiak RA.**
*Study of mortality of Ontario
miners, 1955-1977. Part I.*
Toronto: Ontario Ministry of Labour, 1983.
- G6. Muller J, Wheeler WC, Gentleman JF,
Suranyi G, Kusiak R.**
Study of mortality of Ontario miners.
In: Stocker H, ed. Occupational radiation
safety in mining.
Proceedings of the International Conference,
vol. 1. Toronto: Canadian Nuclear
Association, 1985: 335-343.

H. ONTARIO CANCER TREATMENT AND RESEARCH FOUNDATION

H1. Clarke EA, Spengler RF.

*Cancer incidence, mortality and treatment
in Ontario.*

In: Cancer in Ontario 1981.

**Toronto: Ontario Cancer Treatment
and Research Foundation, 1981: 71-95.**

H2. Clarke EA, Kreiger N, Marrett LD, Soskolne CL.

*Cancer incidence, mortality and treatment in
Ontario.*

In: Cancer in Ontario 1984.

**Toronto: Ontario Cancer Treatment
and Research Foundation, 1984: 157-186.**

H3. Parsons P, Broz T.

*Role of the computer in a combined "Man
and Machine" effort to improve the quality
of data in a large cancer registry.*

**In: Proceedings of the 11th Annual Symposium
on Computer Applications in Medical
Care(SCAME).**

Computer Society of the IEEE; November 1987.

I. MCMASTER UNIVERSITY

- 11. Shannon HS, Cecutti AG, Julian JA, Muir DCF, Roberts, RS.**
Mortality studies in Ontario nickel workers - The Falconbridge Project.
In: Brown SS, Sunderman FW Jr, eds. Nickel toxicology.
London: Academic Press, 1980: 23-26.
- 12. Roberts RS, Julian JA, Muir DCF.**
The JOHC-INCO mortality study. An analysis of mortality from cancer.
Hamilton, Ontario: Programme in Occupational Health, Faculty of Health Sciences, McMaster University, 1982.
- 13. Roberts RS, Julian JA, Muir DCF.**
A study of cancer mortality in workers engaged in the mining, smelting and refining of nickel.
Hamilton, Ontario: Programme in Occupational Health, Faculty of Health Sciences, McMaster University, 1982.
- 14. Shannon HS, Hayes M, Julian JA, Muir DCF.**
Mortality experience of glass fibre workers.
Br J Indust Med 1984; 41: 35-38.
- 15. Shannon HS, Julian JA, Roberts RS.**
A mortality study of 11,500 nickel workers.
J Natl Cancer Inst 1984; 73: 1251-1258.
- 16. Roberts RS, Julian JA, Muir DCF, Shannon HS.**
Cancer mortality associated with the high-temperature oxidation of nickel subsulfide.
In: Sunderman FW, et al, eds. Nickel in the Human Environment.
Lyon: International Agency for Research on Cancer, 1984: 23-35.
(IARC scientific publication no. 53).
- 17. Shannon HS, Jamieson E, Walsh C, Julian JA, Fair ME, Buffet A.**
Comparison of individual follow-up and computerized record linkage using the canadian mortality data base.
CJPH 1989; Vol 80: 54-57.

18. Shannon HS, Jamieson E, Julian JA, Muir DCF.

Mortality of glass filament (textile) workers.

Br J Indust Med 1990; 47: 533-536

19. Shannon HS, Walsh C, Jadon N, Julian JA,

Weglo JK, Thornhill PG, Cecutti AG.

Mortality of 11,500 nickel workers - extended follow-up and relationship to environmental conditions.

Tox & Indust Hlth 1991; Vol 7, No 4: 277-294.

J. DALHOUSIE UNIVERSITY

J1. White F, Dingle J, Heyge E.

The occurrence of cancer among office workers, Ralston Building, Halifax.

Vol. 1. A) Cohort study: Incidence and mortality compared with expected values for Nova Scotia and Canada. B) Case control study: Lengths of employment in the Ralston Building compared between age and sex stratified cases and controls.

Halifax, Nova Scotia: Department of Community Health and Epidemiology, Dalhousie University, 1984.

J2. White FMM.

Current topics in community health.

The Nova Scotia Medical Bulletin; Feb 1984.

J3. White FMM.

Computerized record linkage: A more efficient technique for carrying out large scale epidemiological studies.

The Nova Scotia Medical Bulletin; Feb 1984: 30.

J4. White FMM, Wynn L.

Ischemic heart disease mortality in Canada.

Regional differences in mortality.

In: Report of the Workshop on Directions for Research in the Epidemiology of Ischemic Heart Disease in Canada, Ottawa 1985.

(Mimeographed report.)

K. OTTAWA UNIVERSITY

**K1. Neri LC, Hammond EC, Shoe D, Collins D,
Raman S.**

Principal Investigator - Dr. J.J. Selicoff.

St. Regis indian health study final report.

**Ottawa: Department of Epidemiology and
Community Medicine, Faculty of Health
Sciences, University of Ottawa. August 1983.**

K2. Raman S, Dulberg CS, Spasoff RA.

*Mortality study of Canadian military
personnel exposed to radiation: atomic test
blasts and Chalk River nuclear reactor
clean-ups, 1950's.*

**Ottawa: Department of Epidemiology and
Community Medicine, Faculty of Health
Sciences, University of Ottawa, 1984.**

K3. Hasselback P. Neutel I.

**"The Case of the Missing Bodies": A
Significant Source of Bias in an Linkage
of a Cohort of Fisherman to the Canadian
Mortality Data Base." In: Carpenter M
and Fair ME eds. Proceedings of the Record
Linkage Sessions and Workshop, Canadian
Epidemiology Research Conference, August 1989.
Available from Occupational and Environmental
Health Research Section, CCHI, Statistics Canada,
18th Floor, R.H. Coats Building, Tunney's Pasture,
Ottawa, Ontario, K1A 0T6**

L. UNIVERSITY OF MANITOBA

L1. Roos LL, Nicol JP.

Building individual histories with registries: A case study.
Med Care 1983; 21: 955-969.

L2. Roos LL, Nicol JP.

Using large-scale data banks – Productivity and quality control.
In: Bennett EM, Trute B. eds. Mental health information systems: Problems and prospects. New York: Edwin Press, 1984: 81-98.

L3. Roos LL, Wajda A, Nicol JP.

The art and science of record linkage: Methods that work with few identifiers.
Comput Biol Med, 1986: 45-57.

M. MCGILL UNIVERSITY

- M1. Goldberg MS, Carpenter M, Theriault G, Fair ME.**
*The Accuracy of Ascertaining Vital Status
in a Historical Cohort Study of Synthetic
Textile Workers Using Computerized Record
Linkage to the Canadian Mortality Data Base.*
To be submitted to Canadian Journal of Public
Health, 1992.

Q. CHEMICAL INDUSTRY INSTITUTE OF TOXICOLOGY

- Q1. Levine RJ, Dragna A, Andjelkovich A, Shaw LK,
DalCorso RD.**
Mortality of Ontario undertakers.
CIIT Activities, 1982; Dec: 3-5.
(Research Triangle Park, North Carolina:
Chemical Industry Institute of Toxicology).
- Q2. Levine RJ, Andjelkovich DA, Shaw LK,
DalCorso D.**
*Mortality of Ontario undertakers: A first
report.*
In: Clary JJ, Gibson JE, Waritz RS, eds.
Formaldehyde toxicology, epidemiology and
mechanisms.
New York: Marcel Dekker, 1983.
- Q3. Levine RJ, Dragana A, Andjelkovich MD,
Shaw LK.**
*The mortality of Ontario Undertakers and a
review of formaldehyde-related mortality
studies.*
J Occ Med, 1984; 26: 740-746.

R. ROYAL COMMISSIONS

- R1. Ham JM.**
*Report of the Royal Commission on the health
and safety of workers in mines.*
Ministry of the Attorney General, Province of
Ontario, Toronto, Canada 1976.
- R2. Dupre J, Mustard JF, Uffen RJ.**
*Report of the Royal Commission on matters of
health and safety arising from the use of
asbestos in Ontario.*
Ministry of the Attorney General, Province of
Ontario, Toronto, Canada 1984, Vol 1-3.

R3. Royal Commission on New Reproductive Technologies
Child Health Data Base Catalogue, 1992
Royal Commission on New Reproductive Technologies
P.O. Box 1566, Stn. B, Ottawa, Ontario, K1P 5R5
In preparation.

S. DOW CHEMICAL

S1. Egedahl RD, Olsen GW, Coppock E, Young ML, Arnold IMF.
An historical prospective mortality study of the Sarnia division of Dow Chemical Canada Inc. Sarnia, Ontario (1950-1984).
Canadian Journal of Public Health, 1989; 80: 441-446.

T. IMPERIAL ESSO

T1. Hanis NM, Stavrakys KM, Fowler JL.
Cancer mortality in oil refinery workers.
J of Occup Medicine, 1979; Vol 21, No 3: 167-172.

T2. Schnatter AR, Acquavella JF
Thompson FS, Donaleski D, Theriault G. "An Analysis of Death Ascertainment and Follow-Up Through Statistics Canada's mortality Data Base System." Canadian Journal of Public Health, 1990; Vol. 81, January/February 1990: 60-65.

U. ATOMIC ENERGY CONTROL BOARD

U1. Fair ME, Newcombe HB, Lalonde P.
Improved mortality searches for Ontario miners using social insurance index identifiers.
Atomic Energy Control Board Research Report, 1988, Info-0264.

U2. Fair ME, Newcombe HB, Lalonde P, Poliquin C.
"Alive" searches as complementing death searches in the epidemiological follow-up of Ontario miners.
Atomic Energy Control Board Research Report, 1988, Info-0266.

U3. Carpenter M.
Morbidity follow-up feasibility study.
Atomic Energy Control Board Research Report, 1988, Info-0269.

U4. Carpenter M, Fair ME, Lalonde P, Scott T.

Standards for collection of identifying information for health record keeping.

Atomic Energy Control Board Research Report, 1988, Info-0289.

U5. Lalonde P, Fair ME, Carpenter M, Scott T.

Name encoding schemes.

A research report prepared for the Atomic Energy Control Board, Ottawa. Revised September 1991. Available from: Occupational and Environmental Health Research Section, Stn. 18Q, R.H. Coats Building, Statistics Canada, Tunney's Pasture, Ottawa, Ontario K1A 0T6. (Publication in press).

U6. Coppock E, Dobson D, Fair ME.

Occupational radiation exposure and mortality study: I. internal linkage of the canadian national dose registry.

A research report prepared for the Atomic Energy Control Board, Ottawa; Revised September, 1991. Available from: Occupational and Environmental Health Research Section, Stn. 18Q, R.H. Coats Building, Statistics Canada, Tunney's Pasture, Ottawa, Ontario K1A 0T6. (Publication in press - Info. 0417 - I).

U7. Howe, G. R.

Breast Cancer Incidence and Mortality in the Canadian Fluoroscopy Study: The Establishment of Computerized Record Linkage Facilities for the National Cancer Incidence Reporting System (1975-1983).

A research paper prepared for the Atomic Energy Control Board, Ottawa, October 1991 (Publication in press).

U8. Werner M, Pollquin C, Fair ME "Occupational and radiation exposure and mortality study: II. The National Dose Registry and Canadian Mortality Data Base Linkage : A research report prepared for the Atomic Energy Control Board. Ottawa, Available from: Occupational and Environmental Health Research Section, CCHI, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario K1A 0T6 Infor. - 0417 - II (Publication preparation).

V. SHERRITT GORDON LIMITED

V1. Egedahl RD, Coppock E.

Mortality experience at a hydrometallurgical nickel refinery in Fort Saskatchewan, Alberta between 1954 and 1984.

J. Soc. Occup. Med., 1991; 41:29-33.

V2. Egedahl RD, Fair M, Homik R.

Mortality among employees at a hydrometallurgical nickel refinery and fertilizer complex in Fort Saskatchewan, Alberta (1954-1984).

Accepted for publication in CJPH.

Z. OTHER RELATED PUBLICATIONS

- Z1. Lynch BT, Arends WL.**
Selection of a surname coding procedure for the SRS record linkage system.
Statistical Reporting Services, U.S.
Department of Agriculture, Washington, D.C., 1977.
- Z2. Bora KC, Douglas GR, Nestmann ER.**
Chemical metagenesis, human population monitoring and genetic risk assessment.
New York: Elsevier Biomedical Press
1982: 364.
- Z3. World Health Organization.**
IPCS environmental health criteria 27. Guidelines on studies in environmental epidemiology.
Geneva: WHO 1983; 351.
- Z4. World Health Organization.**
IPCS environmental health criteria 46. Guidelines for the study of genetic effects in human populations.
Geneva: WHO 1985; 126.
- Z5. Kilss B, Alvey W, eds.**
Statistical uses of administrative records: recent research and present prospects. Vols I and II.
Washington: Department of the Treasury, Internal Revenue Service, Statistics of Income Division, 1984; 682.
- Z6. Kilss B, Alvey W. eds.**
Record linkage techniques - 1985. Proceedings of the workshop on exact matching methodologies.
Washington: Department of the Treasury, Internal Revenue Service, Statistics of Income Division, 1985; 395.
- Z7. Caldwell GG, Kelley DB, Heath CW.**
Leukaemia among participants in military maneuvers at a nuclear bomb test.
JAMA, 1980; Vol 244, No 14: 1575-1578.
- Z8. Editorial.**
Individual privacy and health information: an ethical dilemma.
CJPH, 1986; Vol 77.

Z9. Newcombe HB

"Handbook of Record Linkage"
Oxford Medical Publications,
Oxford University Press, 1988
ISBN 0-19-261732-X.

Z10. Embree VC, Enarson DA, Hertzman C.

*Historical employment records as data bases
for occupational disease research - a case
study.*
CJPH 1989; Vol 80: 50-53.

**Z11. Occupational and Environmental Health Research
Section.**

Conversion of ICD to LCDC disease codes.
Available from: Occupational and Environmental Health
Research Section, Stn. 18Q, R.H. Coats Building,
Statistics Canada, Tunney's Pasture, Ottawa,
Ontario K1A 0T6.

Z12. De Guire L, Cyr D, Theriault G.

*Mortalite des travailleurs des usines de Montreal
de Northern Telecom (1976 a 1983).*
Hopital du Sacre-Coeur de Montreal; Fevrier 1990.

Z13. L'Abbe KA, Tomlinson G.

*Scientific Report: Mortality Study of Firefighters
in metropolitan Toronto Industrial Disease Standards
Panel, Occupational Pages. March 17, 1992.*

Z14. Newcombe HB,

*Handbook of Record Linkage:
Methods for Health and Statistical Studies,
Administration, and Business,
Oxford University Press, Oxford (210 pages).*

Z15. Newcombe HB, Fair ME, Lalonde P,


*"Concepts and practices that improve probabilistic
Linkage," Statistical Uses of Administrative Data:
An International Symposium, edited by Coombs JW, Singh MP,
pages 127-138, Statistics Canada, Ottawa, December 1988.*

Z16. Newcombe HB,

*"Design and future uses of national dose registers for
regulatory control and epidemiology,"
Health Physics 39, 783-796.*

Ca 003

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010278109

c.3

[illegible][illegible]

