



NIOSH RESEARCH REPORT

A Retrospective Survey of Cancer in
Relation to Occupation

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE / CENTER FOR DISEASE CONTROL
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH**

A RETROSPECTIVE SURVEY OF CANCER
IN RELATION TO OCCUPATION

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PREFACE

Occupational cancer has become an important area of research within the total spectrum of occupationally related disease. The phenomenon of long delayed response from first exposure to carcinogenic agents and the high incidence of this class of diseases in the general population make the subject a challenging one for occupational health investigators. The identification of occupational groups at high risk of cancer is made difficult partly because of these factors.

To obtain information on the magnitude of cancer risks across a wide variety of occupational groups, the National Institute for Occupational Safety and Health initiated a study of an existing set of hospital data that was unique in having lifetime occupational histories recorded for all patients admitted for evaluation of a suspected tumor. The strategy employed in analyzing this data was one of starting with persons diagnosed with specific forms of cancer and examining their prior work histories to detect associations with particular occupations. This indirect or retrospective approach to the problem has advantages of economy of resources and breadth of scope, although it is only an approximation to the results of well-conducted cohort studies.

The methodology of the present report should be regarded as a screening device for identifying possible relationships between occupations and cancer. It is an example of a surveillance mechanism for occupational cancer.

ABSTRACT

Lifetime occupational histories of patients admitted to Roswell Park Memorial Institute (RPMI), Buffalo, New York between 1956 and 1965 were analyzed for specific forms of cancer and compared with those of patients diagnosed with non-neoplastic conditions. Relative risk estimates for different cancers within a variety of occupational groups were computed according to classic case-control methodology to indicate the degree of association between an occupation and cancer. The results are presented separately for men and women and refer to persons ever employed in an occupation as well as those employed for five or more years. Risk estimates for certain cancers were adjusted for differences in smoking habits between cancer cases and controls.

Among the many comparisons shown in the report, selected possible high-risk occupations are pointed out as examples of findings which are consistent with prior observations and others that warrant further follow-up. Among these are bladder cancer in leather workers and dairy farmers, lung cancer in brickmasons and smeltermen, and oral cancer in printing workers. Instances of unusual cancer experience in some occupational groups where the numbers of cases are too small for definitive conclusions are pointed out for future reference.

TABLE OF CONTENTS

Abstract	iv
Acknowledgments	vi
Introduction	1
Description of Data Base	2
Method of Study	2
Results	3
Discussion	4
Statistical Tables	
Section I: Summary Relative Risks and Associated Probabilities for Cancer Sites Having 5 or More Cases, by Occupation	14
A. Men ever employed	15
B. Men employed at least 5 years	37
C. Women ever employed	53
D. Women employed at least 5 years	60
Section II: Numbers of Cases and Controls and Relative Risks by Age for Each Cancer Site Studied, by Occupation	64
A. Men ever employed	65
B. Men employed at least 5 years	119
C. Women ever employed	155
D. Women employed at least 5 years	173
Section III: Summary Relative Risks and Associated Probabilities Adjusted for Smoking Habits for Selected Cancer Sites	184
A. Men (<u>ever employed</u>)	185
B. Women (<u>ever employed</u>)	195
Technical Appendix	196
Bibliography	198

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The tabular contents of this report have been prepared by Roswell Park Memorial Institute. Methods for collection, analysis, and presentation of tabular data were selected by Roswell Park Memorial Institute.

INTRODUCTION

This report contains estimates of the relative risks of developing specific forms of cancer among persons employed in a variety of occupations derived from a data base of patients admitted to a single medical research and treatment institution. The data are intended to allow identification of occupational groups having an unusual incidence of cancer, thereby providing clues or leads for conducting further, in-depth investigations.

The study was intended as a screening mechanism for identifying occupational groups at high risk of developing cancer. Occupational groups exhibiting a striking increase in cancer frequency might then become candidates for more comprehensive studies to determine the nature of any exposure-response relationships.

The investigation provided a unique opportunity to simultaneously investigate multiple associations between many specific forms of cancer and a variety of occupations. A further importance to this study is its value in assessing the risk of relatively rare forms of cancer (e.g., leukemia and urinary bladder) within specific occupational groups. The more direct method of studying the occurrence of disease in a population, namely, prospective cohort studies, requires follow-up of large numbers of people over long time periods to estimate the magnitude and extent of infrequently occurring conditions. Such studies are costly and time consuming.

DESCRIPTION OF DATA BASE

The method of study employed here takes advantage of a unique set of data maintained at Roswell Park Memorial Institute (RPMI), a major cancer treatment and research center located in Buffalo, New York. All persons referred there for diagnosis and treatment were asked to complete a detailed questionnaire asking for demographic, social (including smoking habits), medical, and occupational information. During the period 1956-1965, patients were asked to report their lifetime occupational history in terms of employer name, functions of company, job activities, job title, and beginning and ending date of each job. All of this information was obtained prior to diagnosis of disease. The employment information is classified by occupation and industry according to the 1960 Bureau of Census coding system.

During the years 1956 to 1965, 25,416 individuals were admitted to Roswell Park Memorial Institute. Of these 6,434 white males and 7,515 white females, each having one of twenty-two different kinds of cancer, were selected for study. Cancer sites selected for study were those represented by at least one percent of the RPMI cancer patient population. Persons with benign neoplasms were excluded from the present study. A proportion of the individuals referred to Roswell Park are diagnosed with non-neoplastic diseases. These persons formed the control group to which individuals with a specific form of cancer were compared.

METHOD OF STUDY

The general methodology of the study compared the relative frequency of a given occupation among patients with a specific form of cancer with its relative frequency among persons with non-neoplastic diseases. The presence or absence of an association between a specific cancer and a given occupation was suggested by an over- or underrepresentation of the occupation among cancer patients compared to controls. In order to more fully characterize the association between a given occupation and a specific cancer, it was decided to compare the risk of developing cancer among persons employed in a given occupation with the risk for persons employed elsewhere. For this procedure, all persons whose lifetime employment consisted almost entirely of clerical jobs (Bureau of Census codes 301-370) were selected as an occupational group to which each of many non-clerical occupations would be compared. It was assumed that clerical jobs were generally free of carcinogenic exposures that might produce an unusual cancer experience for persons so-employed. Use of clerical employment as a comparison group has the advantage that each comparison with another given occupational group is independent of all

other such comparisons. On the other hand, comparisons of many individual occupational groups with the total set are, technically, not independent. The comparison of the risk of developing cancer among individuals in a given occupation with the risk for persons employed in clerical occupations was made utilizing a methodology described in the Technical Appendix.

In order to utilize fully the lifetime occupational histories, each patient was classified into as many different occupational groups as were indicated in his history. As a result, 17,714 occupations were identified among male patients with cancer or non-neoplastic diseases and 15,532 occupations were identified among female patients with cancer or non-neoplastic diseases. The following occupations were deleted from the final analysis: 8,771 occupations for men consisting of professional, managerial, sales, accountant/auditor, apprentice, and miscellaneous craft and laborer jobs; and 9,614 occupations among women consisting of housewives and private household workers in addition to the occupations previously mentioned for males. The remaining 8,943 occupations among men (including clerical jobs) and 6,368 occupations among women (including clerical jobs) are the subject of this report.

Analyses were conducted in two ways: (1) including occupations with any duration of employment reported and (2) including only those occupations for which patients reported at least 5 years employment. This was done to avoid diluting the true population-at-risk in an occupation with persons having only brief periods of work experience. Occupations for which duration of employment was unknown were excluded from the study entirely.

RESULTS

Tables 1 and 2 show the different occupational groups studied for men and women, respectively, and illustrate the order in which results are presented. Table 3 lists the specific cancer sites analyzed for each occupational group.

The tabular material comprising the bulk of the report is organized into three sections. The tables in Section I show numbers of cases and relative risks for those cancer sites where there were at least 5 cases within an occupational group. These tables summarize the more detailed information presented in the second section. Results of statistical significance tests are indicated in one of three ways: $p < 0.05$, $p < 0.01$, or n.s. (non-significant) when $p > 0.05$.

The tables in Section II show results by age group for each cancer site studied within each occupational group. The data presented therein includes the four basic quantities utilized to compute relative risks for each age group as well as the overall, age-adjusted risk. In these

tables, relative risks are not shown when the number of cancer cases or controls in the occupation of interest is zero. Instead, an asterisk was used to indicate this situation. In addition, whenever the relative risk is shown in only one age group, the overall relative risk is appropriately identified by a (+) to indicate that it is less reliable than one for which relative risks are shown in both age groups.

The tables in Section III show relative risks that have been adjusted for differences in smoking habits between cases and controls. Only cancer sites which have previously been shown to be strongly associated with smoking have been analyzed, namely: buccal cavity and pharynx, larynx, lung, and bladder. Both past and current smoking habits were taken into consideration in this analysis. Smoking habits were classified differently for men than women in the analysis. Since there were so few non-smokers among male patients, they were grouped with smokers of less than one pack of cigarettes per day to form a "light" smoking category. Male smokers of more than one pack of cigarettes per day comprised a "heavy" smoking category. However, definitions of light and heavy smoking differed slightly for each of the four sites studied. Female patients were classified simply as "smokers" or "non-smokers." The adjustment was performed on the "ever employed" category, and limited to occupational groups having at least five cases.

The data presented in the detailed tables of the second section allow the reader to combine two or more cancer sites or occupational groups to obtain relative risk estimates for broader classes. Utilizing the procedures set forth in the Technical Appendix, the reader can compute new age-adjusted relative risks and assess their statistical significance.

DISCUSSION

In interpreting the many comparisons shown in this report, several considerations should be kept in mind. Perhaps the most important one is that in any large set of statistical comparisons, a certain proportion will result in significant departures from expectation by chance alone. Hence, a relative risk that is significantly greater than unity does not necessarily mean that an occupational cancer problem exists. Furthermore, a seemingly high relative risk based on only a few cases should be interpreted cautiously. Unfortunately, when data are subdivided into many cross-classifications, the number of cases in some cells becomes quite small. Relative risk estimates in these instances are subject to wide variability and it may be misleading to accept the results literally.

It should also be noted that some cancer sites (such as female breast and cervix) have been related to marital and socioeconomic status, but these variables have not been incorporated into the analyses presented here. Therefore, results for these sites among female workers

should be evaluated with due consideration of these possible confounding factors. Alcohol consumption is another factor that has been associated with cancers of different sites (especially oral and esophageal cancer) but has not been considered in this report. Hence, interpretation of results for these sites should bear this point in mind.

Cancer of certain digestive sites is known to occur at a greater rate among foreign-born Americans (particularly those from eastern Europe) than among native-born Americans. However, nativity as a characteristic has not been controlled in the analysis.

Obviously, there are many occupational groups that are not shown in this report. The only groups that could be examined were those which are represented often enough in the Roswell Park patient population. While there were other occupations occurring among the patients, they were too few to produce meaningful analyses. Some of the occupational groups that are shown may appear too broad for identifying specific problem areas. Usually these groupings were made because the constituent, more specific occupations did not have sufficient numbers of cases for analysis.

Although Roswell Park serves as a catchment basin for the majority of cancer cases in the area, it should be kept in mind that RPMI represents a single hospital having its own unique referral patterns. The distribution of specific cancers seen at Roswell Park does not necessarily reflect their relative incidence in the general population of the area. Roswell Park sees an unusually large number of cases of oral cancer, which may be due to unique referral patterns for that site. Other sites may not be as fully represented as we might expect. For example, there were 4 urinary bladder cancer cases identified among men with a history of employment in the chemical industry. However, many more cases were observed among workers at a coal-tar dye plant in western New York State but were not seen at Roswell Park. These phenomena, due to referral patterns characteristic of a single hospital, do not necessarily introduce significant bias in the analyses presented here as long as there are no systematic differences between referral patterns for cancer patients having a particular kind of employment history and non-cancer patients with the same employment history.

It should be emphasized that the results shown here become more meaningful when interpreted in conjunction with prior evidence of specific occupation-cancer associations, and the likelihood for occupational exposure to potential carcinogens. The following examples of specific occupation-cancer comparisons from the present data illustrate some interesting leads for further study.

Male Occupations

Brickmasons, Stonemasons, Tile Setters

The increased relative risk for lung cancer (RR=2.261) in this group is consistent with observations made among men employed in the mason department of steel plants. A possible occupational factor is suggested by the use of asbestos as a constituent of certain furnace cements.

Farmers

Dairy farmers exhibit a very striking increase in bladder cancer, while other farmers show a deficit for this site--a finding which is not readily explainable. Melanoma of the skin is seen as of high relative risk for non-dairy farmers, but not for dairy farmers.

Furnacemen, Smeltermen and Pourers

The group exhibits high relative risks for lung and bladder cancer. The lung cancer findings are in agreement with similar reports for smelter workers and foundry workers.

Leather Workers

The category "operatives in the leather industry" shows the highest relative risk for bladder cancer among all occupational groups studied. Female leather workers also exhibited a striking increase for this site. These observations are consistent with prior reports in the scientific literature.

Machinists

This occupational group exhibits high relative risks for cancer of the prostate and leukemia. Machinists are subject to exposure to mineral oils, some of which have been associated with skin cancer. Interestingly, machinists referred to Roswell Park show a deficit for skin cancer (other than melanoma) in the present report.

Metal Molders

This group shows an increased frequency of lung cancer which is consistent with previous data suggesting a relationship between lung cancer and foundry employment.

Painters

Both lung and bladder cancer show increased relative risks in

this occupational group. Other data sources have suggested that painters may be at increased risk for these sites.

Print Workers

This occupational group shows a relative risk of 2.586 for cancer of the buccal cavity and pharynx. A similar result was found in a NIOSH survey of causes of death among printing pressmen.

Female Occupations

Cooks

This group exhibits high relative risks for both lung and bladder cancer. Bladder cancer was also increased in female kitchen workers. Other data sources show these sites to be in excess for the same occupational groups.

Hairdressers and Cosmetologists

This occupational group shows an unusual cancer experience for three sites: ovary, uterus, and lymphomas. These results may be important in view of the attention being given to the potential toxicity of hair spray products and hair dyes.

Textile Mill Workers

While no cases of bladder cancer were seen among women classified as "spinners" or "weavers" in the textile industry, an excessive relative risk for this site was seen for "operatives" in this industry. Other studies have suggested that bladder cancer may be higher than expected among workers in the textile industry, possibly related to use of dyes. Melanoma also was seen to be associated with a high relative risk among "operatives" in this industry, while no cases were seen among "spinners" and "weavers".

Finally, there are suggestions of unusually high risks for certain cancers in occupations where the number of cases are quite small (less than 5). Examples of these instances include:

Male Occupations

Melanoma

Locomotive engineers and firemen
Machinists

Mine operatives and laborers
Painters
Print workers

Pancreas

Leather workers
Primary metal industry (operatives)
Print workers
Stationary firemen

Multiple Myeloma

Leather workers
Toolmakers, diemakers and setters

Nose

Brickmasons, stonemasons, tile setters
Machinists
Plumbers and pipefitters

Kidney

Machinists

Brain

Farmers (other than dairy)
Machinists

Testis

Electricians
Machinists
Toolmakers, diemakers and setters

Female Occupations

Buccal Cavity, Pharynx

Operatives in apparel industry

Lung

Cooks

Ovary

Operatives in paper industry

Melanoma

Operatives in textile mill products

Lymphomas

Operatives in apparel industry
Weavers in textile mill products

While it is difficult to draw any firm conclusions from these results, they may warrant further observation as early clues to the identification of other potential problem areas.

The Bibliography covers both American and European scientific literature for the years 1963 to 1974. It is arranged by publication date and lists epidemiologic studies covering specific occupations, industries, hazards, and cancers. It is intended as a general reference source to supplement the main report.

Table 1. Occupational Groups Studied For Men

Title	1960 Bureau of Census Code (Occupation/Industry)
Bakers	401
Barbers	814
Blacksmiths	402
Boilermakers	403
Brickmasons, Stonemasons, and Tile Setters	405
Bus Drivers	641
Carpenters	411
Operatives in Chemical Industry	729/28
Laborers in Chemical Industry	979/28
Foremen in Chemical Industry	430/28
Cranemen, Derrickmen, and Hoistmen	415
Deliverymen and Routemen	650
Electricians	421
Excavating, Grading and Road Machinery Operators	425
Farmers and Managers in Dairy Farms	221/0132
Farmers and Managers in General Crop and Livestock Farms	221/0144
Filers, Grinders and Polishers, Metal	653
Foremen in Food Manufacturing Industry	430/20
Furnacemen, Smeltermen and Pourers	670
Kitchen Workers, Except Private Household	835
Operatives in Leather Industry	729/31
Linemen and Servicemen, Telegraph, Telephone and Power	453
Locomotive Engineers and Firemen	454, 460
Laborers in Lumber and Wood Products Industry, Except Furniture	979/24
Machinists	465
Operatives in Miscellaneous Manufacturing Industries*	729/35-39
Laborers in Miscellaneous Manufacturing Industries*	979/35-39
Mechanics and Repairmen	470-475, 480
Operatives in Fabricated Metal Products Industry	729/34
Laborers in Fabricated Metal Products Industry	979/34
Operatives in Primary Metal Industry	729/33
Laborers in Primary Metal Industry	979/33
Foremen in Primary Metal Industry	430/33
Millwrights	491

Table 1. Occupational Groups Studied for Men (Cont'd)

Title	1960 Bureau of Census Code (Occupation/Industry)
Mine Operatives and Laborers	685
Molders, Metal	492
Painters	495, 694
Operatives in Paper and Allied Products	
Industry	729/26
Laborers in Paper and Allied Products Industry	979/26
Plumbers and Pipe Fitters.	510
Print Workers **	414, 423, 503, 512
Foremen in Railroad Transportation	430/40
Roofers and Slaters	514
Operatives in Rubber and Miscellaneous	
Plastics Products Industry	729/30
Shoemakers and Repairers, Except Factory	515
Stationary Engineers	520
Stationary Firemen	712
Taxicab Drivers and Chauffeurs	714
Operatives in Textile Mill Products	
Industry	729/22
Tinsmiths, Coppersmiths and Sheet Metal	
Workers	525
Toolmakers, Diemakers and Setters	530
Foremen in Transportation Equipment	
Manufacturing Industry	430/37
Truck and Tractor Drivers	715
Welders and Flame-Cutters	721

* This title includes the manufacture of machinery, transportation equipment, instruments, photographic and optical goods, watches and clocks, and miscellaneous products.

** This title includes compositors and typesetters, electrotypers and stereotypers, photoengravers and lithographers, pressmen and plate printers.

Table 2. Occupational Groups Studied For Women

Title	1960 Bureau of Census Code (Occupational/Industry)
Operatives in Apparel Products Industry	729/23
Operatives in Chemical Industry	729/28
Cooks, Except Private Household	825
Operatives in Food Manufacturing Industry	729/20
Laborers in Food Manufacturing Industry	979/20
Hairdressers and Cosmetologists	843
Kitchen Workers, Except Private Household	835
Operatives in Leather Industry	729/31
Operatives in Lumber and Wood Products Industry, Except Furniture	729/24
Operatives in Miscellaneous Manufacturing Industries*	729/35-39
Operatives in Fabricated Metal Products Industry	729/34
Operatives in Primary Metal Industry	729/33
Operatives in Paper and Allied Products Industry	729/26
Operatives in Printing and Publishing Industry	729/27
Operatives in Rubber and Miscellaneous Plastics Products Industry	729/30
Operatives in Textile Mill Products Industry	729/22
Spinners in Textile Mill Products Industry	710/22
Weavers in Textile Mill Products industry	720/22

* This title includes the manufacture of machinery, transportation equipment, instruments, photographic and optical goods, watches and clocks, and miscellaneous products.

Table 3. Cancer Sites Studied

<u>Site</u>	<u>ICD Code (7th Revision)</u>
Buccal Cavity and Pharynx	140-148
Esophagus	150
Stomach	151
Colon, Rectum	153, 154
Pancreas	157
Nose, Nasal Cavity, etc.	160
Larynx	161
Lung, Bronchus, Trachea	162, 163
Breast (females only)	170
Cervix Uteri	171
Corpus Uteri	172
Ovary	175
Prostate	177
Testis	178
Kidney	180
Bladder	181
Melanoma of Skin	190
Skin Cancer other than Melanoma	191
Brain	193
Lymphomas	200-202
Multiple Myeloma	203
Leukemia	204

STATISTICAL TABLES

SECTION I

Summary Relative Risks and Associated
Probabilities for Cancer Sites Having
5 or More Cases by Occupation

A. Men ever employed	15
B. Men employed at least 5 years	37
C. Women ever employed	53
D. Women employed at least 5 years	60

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)

BAKERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Lymphoma	6	2.026	n.s.

BARBERS

Larynx	10	2.828	.02
Lung	8	0.963	n.s.
Bladder	5	1.490	n.s.

BLACKSMITHS

Lung	5	1.226	n.s.
Prostate	5	6.718	<.01

BRICKMASONS, STONEMASONS AND TILE SETTERS

Colon Rectum	5	1.679	n.s.
Lung	9	2.261	n.s.

BUS DRIVERS

Buccal Cavity & Pharynx	5	1.193	n.s.
Lung	8	1.808	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

CARPENTERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	28	0.806	n.s.
Stomach	12	2.019	n.s.
Larynx	15	0.920	n.s.
Prostate	13	1.649	n.s.
Colon Rectum	18	0.594	n.s.
Lung	43	1.115	n.s.
Bladder	13	0.807	n.s.
Skin (other)	19	0.725	n.s.
Lymphoma	15	0.754	n.s.
Leukemia	5	0.780	n.s.

OPERATIVES IN CHEMICAL INDUSTRY

Buccal Cavity & Pharynx	12	0.994	n.s.
Stomach	6	4.250	<.01
Larynx	9	1.905	n.s.
Colon Rectum	5	0.509	n.s.
Lung	14	1.123	n.s.
Skin (other)	6	0.814	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LABORERS IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	8	1.219	n.s.
Lung	7	0.999	n.s.

CRANEMEN, DERRICKMEN AND HOISTMEN

Buccal Cavity & Pharynx	6	0.986	n.s.
Lung	7	1.065	n.s.

DELIVERYMEN AND ROUTEMEN

Buccal Cavity & Pharynx	19	1.094	n.s.
Larynx	5	0.656	n.s.
Colon Rectum	20	1.354	n.s.
Lung	20	1.062	n.s.
Bladder	8	1.126	n.s.
Skin (other)	11	0.890	n.s.
Lymphoma	13	1.204	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

ELECTRICIANS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	12	1.364	n.s.
Larynx	6	1.598	n.s.
Colon Rectum	5	0.674	n.s.
Lung	20	2.102	.03
Bladder	6	1.775	n.s.

EXCAVATING, GRADING AND ROAD MACHINERY OPERATORS

Lung	6	0.854	n.s.
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FARMERS AND MANAGERS IN DAIRY FARMS

Prostate	5	4.826	<.01
Bladder	7	3.150	.05

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FARMERS AND MANAGERS IN GENERAL CROP AND LIVESTOCK FARMS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	43	0.632	.02
Stomach	22	1.665	n.s.
Pancreas	5	1.046	n.s.
Larynx	17	0.550	.05
Prostate	26	1.525	n.s.
Kidney	6	1.492	n.s.
Melanoma	6	3.110	n.s.
Esophagus	6	0.997	n.s.
Colon Rectum	33	0.575	.01
Nose	5	0.886	n.s.
Lung	51	0.687	n.s.
Testis	5	1.140	n.s.
Bladder	19	0.570	n.s.
Skin (other)	43	0.760	n.s.
Lymphoma	19	0.588	.05
Leukemia	7	0.585	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FILERS, GRINDERS AND POLISHERS, METAL

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Stomach	5	2.063	n.s.
Colon Rectum	10	0.637	n.s.
Lung	17	0.833	n.s.
Bladder	7	0.994	n.s.
Skin (other)	7	0.549	n.s.

FOREMEN, ALL INDUSTRIES

Buccal Cavity & Pharynx	36	0.916	n.s.
Stomach	5	0.912	n.s.
Larynx	29	1.707	n.s.
Prostate	20	2.683	<.01
Kidney	9	3.218	.02
Colon Rectum	25	0.751	n.s.
Lung	40	0.943	n.s.
Bladder	16	1.017	n.s.
Skin (other)	17	0.615	n.s.
Lymphoma	13	0.524	n.s.
Leukemia	6	0.793	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FURNACEMEN, SMELTERMEN AND POURERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	8	1.071	n.s.
Colon Rectum	6	0.957	n.s.
Lung	13	1.619	n.s.
Bladder	7	2.396	.04

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

Buccal Cavity & Pharynx	9	1.629	n.s.
Lung	7	1.203	n.s.

OPERATIVES IN LEATHER INDUSTRY

Buccal Cavity & Pharynx	18	3.378	<.01
Larynx	7	3.633	.02
Colon Rectum	6	1.371	n.s.
Bladder	11	6.773	<.01

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LINEMEN AND SERVICEMEN, TELEGRAPH, TELEPHONE AND POWER

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	11	1.477	n.s.
Colon Rectum	7	1.112	n.s.
Skin (other)	7	1.354	n.s.
Lymphoma	7	1.456	n.s.

LOCOMOTIVE ENGINEERS AND FIREMEN

Buccal Cavity & Pharynx	18	1.635	n.s.
Larynx	5	0.992	n.s.
Colon Rectum	7	0.735	n.s.
Lung	12	0.999	n.s.
Bladder	8	1.647	n.s.
Skin (other)	9	1.103	n.s.
Lymphoma	8	1.227	n.s.

LABORERS IN LUMBER AND WOOD INDUSTRY, EXCEPT FURNITURE

Buccal Cavity & Pharynx	8	1.883	n.s.
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A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

MACHINISTS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	21	1.433	n.s.
Larynx	10	1.545	n.s.
Prostate	7	2.375	n.s.
Colon Rectum	12	0.957	n.s.
Lung	20	1.259	n.s.
Bladder	7	1.132	n.s.
Skin (other)	8	0.754	n.s.
Lymphoma	10	1.120	n.s.
Leukemia	8	2.847	.02

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	61	1.087	n.s.
Stomach	9	1.351	n.s.
Pancreas	7	2.583	n.s.
Larynx	26	1.155	n.s.
Prostate	18	1.992	n.s.
Kidney	8	1.662	n.s.
Esophagus	8	1.400	n.s.
Colon Rectum	52	1.146	n.s.
Lung	58	0.954	n.s.
Testis	7	0.802	n.s.
Bladder	15	0.778	n.s.
Skin (other)	32	0.879	n.s.
Lymphoma	28	0.717	n.s.
Leukemia	7	0.600	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LABORERS IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	14	0.664	n.s.
Stomach	5	1.690	n.s.
Larynx	8	0.877	n.s.
Prostate	5	1.244	n.s.
Lung	21	0.922	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

MECHANICS AND REPAIRMEN

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	67	0.964	n.s.
Stomach	15	1.602	n.s.
Pancreas	7	2.034	n.s.
Larynx	30	1.007	n.s.
Prostate	27	2.095	.02
Myeloma	6	0.821	n.s.
Esophagus	6	0.860	n.s.
Colon Rectum	35	0.596	.02
Nose	9	1.888	n.s.
Lung	84	1.122	n.s.
Testis	9	1.021	n.s.
Bladder	38	1.396	n.s.
Skin (other)	32	0.667	n.s.
Lymphoma	37	0.833	n.s.
Leukemia	10	0.751	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	18	1.049	n.s.
Larynx	8	1.158	n.s.
Colon Rectum	12	0.846	n.s.
Lung	11	0.610	n.s.
Bladder	13	2.122	.03
Skin (other)	6	0.531	n.s.
Lymphoma	5	0.432	n.s.

LABORERS IN FABRICATED METAL INDUSTRY

Buccal Cavity & Pharynx	13	1.845	n.s.
Lung	9	1.211	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	25	1.480	n.s.
Stomach	7	2.937	.02
Larynx	6	0.819	n.s.
Prostate	7	2.165	n.s.
Colon Rectum	17	1.187	n.s.
Lung	28	1.534	n.s.
Bladder	5	0.734	n.s.
Skin (other)	6	0.503	n.s.
Lymphoma	12	1.134	n.s.
Leukemia	7	2.159	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LABORERS IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	20	0.904	n.s.
Stomach	8	2.412	n.s.
Larynx	8	0.811	n.s.
Colon Rectum	14	0.739	n.s.
Lung	24	0.991	n.s.
Bladder	9	0.968	n.s.
Skin (other)	6	0.376	.03
Lymphoma	9	0.667	n.s.

MILLWRIGHTS

Stomach	7	5.498	<.01
Lung	7	0.841	n.s.
Bladder	5	1.397	n.s.
Skin (other)	5	0.860	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

MINE OPERATIVES AND LABORERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	21	1.427	n.s.
Larynx	7	1.072	n.s.
Prostate	6	2.038	n.s.
Colon Rectum	13	1.034	n.s.
Lung	17	1.066	n.s.
Bladder	8	1.293	n.s.
Skin (other)	9	0.855	n.s.
Leukemia	6	2.164	n.s.

MOLDERS, METAL

Buccal Cavity & Pharynx	7	0.817	n.s.
Stomach	5	2.922	.05
Colon Rectum	6	0.782	n.s.
Lung	16	1.598	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

PAINTERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	31	1.363	n.s.
Stomach	8	2.384	.05
Larynx	10	0.981	n.s.
Prostate	9	1.906	n.s.
Esophagus	7	2.994	.03
Colon Rectum	23	1.171	n.s.
Lung	42	1.708	.02
Bladder	16	1.624	n.s.
Skin (other)	12	0.720	n.s.

OPERATIVES IN PAPER INDUSTRY

Buccal Cavity & Pharynx	15	1.891	n.s.
Larynx	8	2.428	n.s.
Colon Rectum	11	1.666	n.s.
Lung	8	0.944	n.s.
Skin (other)	6	1.112	n.s.
Lymphoma	7	1.355	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LABORERS IN PAPER INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Lung	7	1.348	n.s.

PLUMBERS AND PIPE FITTERS

Buccal Cavity & Pharynx	14	1.390	n.s.
Larynx	5	1.098	n.s.
Colon Rectum	6	0.689	n.s.
Lung	17	1.556	n.s.
Bladder	7	1.570	n.s.
Skin (other)	5	0.676	n.s.
Lymphoma	6	1.036	n.s.

PRINT WORKERS

Buccal Cavity & Pharynx	11	2.586	.04
Colon Rectum	5	1.368	n.s.
Lung	7	1.509	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

ROOFERS AND SLATERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	5	2.763	n.s.

OPERATIVES IN RUBBER AND PLASTIC INDUSTRY

Lung	5	1.052	n.s.
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SHOEMAKERS AND REPAIRERS, EXCEPT FACTORY

Buccal Cavity & Pharynx	8	3.633	.03
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STATIONARY ENGINEERS

Buccal Cavity & Pharynx	6	0.708	n.s.
Colon Rectum	6	0.830	n.s.
Lung	6	0.653	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

STATIONARY FIREMEN

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	11	1.116	n.s.
Larynx	7	1.633	n.s.
Lung	14	1.314	n.s.

OPERATIVES IN TEXTILE MILL INDUSTRY

Buccal Cavity & Pharynx	11	1.895	n.s.
Larynx	5	2.360	n.s.
Colon Rectum	8	1.664	n.s.
Lung	9	1.486	n.s.

TINSMITHS, COPPERSMITHS, AND SHEET METAL WORKERS

Buccal Cavity & Pharynx	7	1.332	n.s.
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TAXICAB DRIVERS AND CHAUFFEURS

Buccal Cavity & Pharynx	18	1.921	n.s.
Colon Rectum	5	0.652	n.s.
Lung	8	0.818	n.s.
Bladder	5	1.699	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

TOOLMAKERS, DIEMAKERS AND SETTERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	6	0.761	n.s.
Larynx	6	1.844	n.s.
Colon Rectum	6	0.903	n.s.
Lung	7	0.824	n.s.
Skin (other)	5	0.929	n.s.

WELDERS AND FLAME-CUTTERS

Buccal Cavity & Pharynx	8	0.658	n.s.
Colon Rectum	5	0.504	n.s.
Lung	11	0.846	n.s.
Skin (other)	7	0.906	n.s.
Lymphoma	5	0.577	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

TRUCK AND TRACTOR DRIVERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	66	1.332	n.s.
Stomach	8	1.559	n.s.
Larynx	29	1.526	n.s.
Prostate	8	1.109	n.s.
Kidney	5	1.155	n.s.
Esophagus	6	1.091	n.s.
Colon Rectum	24	0.603	.04
Nose	5	1.594	n.s.
Lung	56	1.071	n.s.
Testis	7	0.827	n.s.
Bladder	26	1.660	n.s.
Skin (other)	19	0.628	n.s.
Lymphoma	23	0.632	n.s.
Leukemia	6	0.566	n.s.

A. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

BARBERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Larynx	8	2.493	n.s.
Lung	8	0.878	n.s.
Bladder	5	1.772	n.s.

BRICKMASONS, STONEMASONS AND TILE SETTERS

Colon Rectum	5	3.261	n.s.
Lung	6	3.321	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)

BUS, TAXICAB AND TRUCK DRIVERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	68	1.325	n.s.
Stomach	5	0.886	n.s.
Larynx	27	1.451	n.s.
Prostate	9	1.069	n.s.
Kidney	6	1.616	n.s.
Colon Rectum	27	0.627	n.s.
Nose	5	1.598	n.s.
Lung	50	0.893	n.s.
Bladder	22	1.546	n.s.
Skin (other)	17	0.562	.05
Lymphoma	17	0.720	n.s.
Leukemia	7	0.707	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

CARPENTERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	23	0.732	n.s.
Stomach	9	1.635	n.s.
Larynx	11	0.829	n.s.
Prostate	12	1.591	n.s.
Colon Rectum	11	0.372	<.01
Lung	31	0.873	n.s.
Bladder	9	0.729	n.s.
Skin (other)	17	0.712	n.s.
Lymphoma	11	0.807	n.s.

OPERATIVES IN CHEMICAL INDUSTRY

Buccal Cavity & Pharynx	9	1.502	n.s.
Stomach	5	5.885	<.01
Larynx	9	3.862	<.01
Lung	10	1.508	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

CRANEMEN, DERRICKMEN AND HOISTMEN

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	6	1.007	n.s.
Lung	6	0.896	n.s.

DELIVERYMEN AND ROUTEMEN

Buccal Cavity & Pharynx	12	1.122	n.s.
Colon Rectum	11	1.096	n.s.
Lung	14	1.152	n.s.
Skin (other)	9	1.137	n.s.

ELECTRICIANS

Buccal Cavity & Pharynx	12	1.311	n.s.
Larynx	6	1.657	n.s.
Colon Rectum	5	0.600	n.s.
Lung	20	1.932	n.s.
Bladder	6	2.002	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FARMERS AND MANAGERS IN DAIRY FARMS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Prostate	5	4.302	.02
Bladder	7	3.632	.01

FARMERS AND MANAGERS IN GENERAL CROP AND LIVESTOCK FARMS

Buccal Cavity & Pharynx	39	0.589	.02
Stomach	20	1.438	n.s.
Larynx	15	0.563	n.s.
Prostate	24	1.326	n.s.
Kidney	6	1.561	n.s.
Melanoma	5	2.294	n.s.
Esophagus	6	1.275	n.s.
Colon Rectum	31	0.510	<.01
Lung	46	0.623	.03
Bladder	19	0.682	n.s.
Skin (other)	39	0.700	n.s.
Lymphoma	19	0.779	n.s.
Leukemia	6	0.546	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FILERS, GRINDERS AND POLISHERS, METAL

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Colon Rectum	8	0.836	n.s.
Lung	9	0.188	n.s.
Bladder	5	1.337	n.s.
Skin (other)	5	0.661	n.s.

FOREMEN, ALL INDUSTRIES

Buccal Cavity & Pharynx	31	0.842	n.s.
Stomach	5	0.890	n.s.
Larynx	25	1.703	n.s.
Prostate	14	1.779	n.s.
Kidney	7	3.088	n.s.
Colon Rectum	21	0.619	n.s.
Lung	32	0.775	n.s.
Bladder	13	1.004	n.s.
Skin (other)	13	0.490	.03
Lymphoma	10	0.607	n.s.
Leukemia	5	0.734	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

FURNACEMEN, SMELTERMEN AND POURERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	5	0.765	n.s.
Lung	10	1.373	n.s.
Bladder	6	2.955	.03

OPERATIVES IN LEATHER INDUSTRY

Buccal Cavity & Pharynx	12	3.772	<.01
Larynx	6	6.896	<.01
Bladder	8	12.935	<.01

LINEMEN AND SERVICEMEN, TELEGRAPH, TELEPHONE AND POWER

Buccal Cavity & Pharynx	9	1.510	n.s.
Colon Rectum	5	0.910	n.s.
Skin (other)	6	1.396	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

LOCOMOTIVE ENGINEERS AND FIREMEN

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	17	1.967	n.s.
Colon Rectum	5	0.603	n.s.
Lung	8	0.821	n.s.
Bladder	7	1.981	n.s.
Skin (other)	5	0.737	n.s.
Lymphoma	8	2.132	n.s.

MACHINISTS

Buccal Cavity & Pharynx	16	1.191	n.s.
Larynx	7	1.260	n.s.
Prostate	7	2.200	n.s.
Colon Rectum	9	0.701	n.s.
Lung	12	0.789	n.s.
Bladder	7	1.328	n.s.
Skin (other)	5	0.484	n.s.
Lymphoma	8	1.363	n.s.
Leukemia	8	3.218	.02

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	26	0.854	n.s.
Stomach	5	1.373	n.s.
Larynx	13	1.217	n.s.
Prostate	15	2.689	.02
Esophagus	5	1.706	n.s.
Colon Rectum	30	1.138	n.s.
Lung	33	0.971	n.s.
Bladder	10	1.109	n.s.
Skin (other)	14	0.680	n.s.
Lymphoma	12	0.839	n.s.

LABORERS IN MISCELLANEOUS MANUFACTURING INDUSTRY

Buccal Cavity & Pharynx	8	1.346	n.s.
Lung	9	1.361	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

MECHANICS AND REPAIRMEN

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	47	0.912	n.s.
Stomach	11	1.512	n.s.
Pancreas	5	1.590	n.s.
Larynx	22	1.103	n.s.
Prostate	16	1.523	n.s.
Colon Rectum	23	0.489	.01
Nose	8	2.134	n.s.
Lung	63	1.100	n.s.
Bladder	28	1.629	n.s.
Skin (other)	22	0.622	n.s.
Lymphoma	18	0.774	n.s.
Leukemia	6	0.636	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	7	0.719	n.s.
Colon Rectum	9	1.000	n.s.
Lung	7	0.639	n.s.
Bladder	7	2.018	n.s.

OPERATIVES IN PRIMARY METAL INDUSTRY

Buccal Cavity & Pharynx	18	1.675	n.s.
Prostate	5	2.625	n.s.
Colon Rectum	13	1.384	n.s.
Lung	23	1.905	n.s.
Skin (other)	5	0.707	n.s.
Lymphoma	8	1.589	n.s.
Leukemia	5	2.415	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

LABORERS IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	14	1.547	n.s.
Stomach	7	4.288	<.01
Colon Rectum	10	1.153	n.s.
Lung	15	1.428	n.s.

MILLWRIGHTS

Lung	6	0.925	n.s.
Bladder	5	1.854	n.s.

MINE OPERATIVES AND LABORERS

Buccal Cavity & Pharynx	15	1.149	n.s.
Colon Rectum	8	0.653	n.s.
Lung	11	0.751	n.s.
Bladder	8	1.602	n.s.
Skin (other)	8	0.828	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

MOLDERS, METAL

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	6	0.805	n.s.
Stomach	5	2.892	n.s.
Lung	14	1.510	n.s.

PAINTERS

Buccal Cavity & Pharynx	21	1.049	n.s.
Stomach	6	1.859	n.s.
Larynx	10	1.215	n.s.
Prostate	6	1.271	n.s.
Esophagus	6	3.230	.04
Colon Rectum	15	0.793	n.s.
Lung	29	1.306	n.s.
Bladder	12	1.514	n.s.
Skin (other)	9	0.595	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	14	4.141	<.01
Larynx	5	4.368	.02
Colon Rectum	7	2.490	n.s.
Lung	5	1.368	n.s.

PLUMBERS AND PIPE FITTERS

Buccal Cavity & Pharynx	11	1.135	n.s.
Larynx	5	1.235	n.s.
Colon Rectum	6	0.645	n.s.
Lung	13	1.191	n.s.
Bladder	7	1.797	n.s.
Skin (other)	5	0.674	n.s.

PRINT WORKERS

Buccal Cavity & Pharynx	10	2.332	n.s.
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B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

SHOEMAKERS AND REPAIRERS, EXCEPT FACTORY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	8	3.004	n.s.

STATIONARY ENGINEERS

Colon Rectum	6	0.749	n.s.
Lung	5	0.513	n.s.

STATIONARY FIREMEN

Buccal Cavity & Pharynx	6	0.874	n.s.
Lung	10	1.263	n.s.

OPERATIVES IN TEXTILE MILL INDUSTRY

Buccal Cavity & Pharynx	8	2.101	n.s.
Colon Rectum	6	1.742	n.s.
Lung	6	1.419	n.s.

B. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

TOOLMAKERS, DIEMAKERS AND SETTERS

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	6	0.737	n.s.
Larynx	6	1.984	n.s.
Lung	6	0.658	n.s.

WELDERS AND FLAME-CUTTERS

Buccal Cavity & Pharynx	7	0.791	n.s.
Colon Rectum	5	0.654	n.s.
Lung	9	0.916	n.s.
Skin (other)	5	0.892	n.s.
Lymphoma	5	1.200	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)

OPERATIVES IN APPAREL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	7	3.977	<.01
Breast	24	1.367	n.s.
Corpus Uteri	8	2.178	.04
Cervix Uteri	39	4.408	<.01
Lymphoma	7	2.315	n.s.

OPERATIVES IN CHEMICAL INDUSTRY

Breast	7	0.987	n.s.
Cervix Uteri	6	1.971	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

COOKS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	5	0.898	n.s.
Breast	52	0.885	n.s.
Corpus Uteri	13	0.872	n.s.
Colon Rectum	15	0.895	n.s.
Lung	6	2.272	n.s.
Cervix Uteri	64	2.329	.01
Bladder	8	2.330	n.s.
Skin (other)	9	1.221	n.s.
Lymphoma	5	0.506	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN FOOD INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Breast	50	0.745	n.s.
Corpus Uteri	14	0.996	n.s.
Colon Rectum	21	1.197	n.s.
Cervix Uteri	43	1.274	n.s.
Ovary	7	0.713	n.s.
Skin (other)	10	1.288	n.s.
Lymphoma	5	0.427	n.s.

LABORERS IN FOOD INDUSTRY

Cervix Uteri	6	3.452	.04
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HAIRDRESSERS AND COSMETOLOGISTS

Breast	20	1.057	n.s.
Corpus Uteri	6	3.001	.03
Colon Rectum	6	1.609	n.s.
Cervix Uteri	13	1.103	n.s.
Ovary	10	2.979	<.01
Lymphoma	5	1.425	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	6	1.105	n.s.
Breast	32	0.601	.01
Corpus Uteri	17	1.587	n.s.
Colon Rectum	9	0.667	n.s.
Cervix Uteri	51	1.850	<.01
Bladder	5	2.166	n.s.
Skin (other)	5	0.846	n.s.
Lymphoma	7	0.747	n.s.

OPERATIVES IN LEATHER INDUSTRY

Breast	20	1.187	n.s.
Cervix Uteri	16	2.034	.04
Lymphoma	8	2.815	.01

OPERATIVES IN LUMBER AND WOOD INDUSTRY, EXCEPT FURNITURE

Cervix Uteri	13	2.967	<.01
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C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	8	0.652	n.s.
Breast	70	0.596	<.01
Corpus Uteri	10	0.491	n.s.
Colon Rectum	18	0.641	n.s.
Cervix Uteri	106	1.669	<.01
Ovary	12	0.651	n.s.
Skin (other)	10	0.828	n.s.
Lymphoma	15	0.714	n.s.

OPERATIVES IN FABRICATED METAL INDUSTRY

Breast	13	0.504	.04
Cervix Uteri	20	1.472	n.s.

OPERATIVES IN PRIMARY METAL INDUSTRY

Breast	12	1.167	n.s.
Cervix Uteri	11	1.796	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Breast	22	0.807	n.s.
Corpus Uteri	6	0.887	n.s.
Colon Rectum	9	1.178	n.s.
Cervix Uteri	24	1.922	.02
Ovary	7	1.820	n.s.

OPERATIVES IN PRINTING AND PUBLISHING INDUSTRY

Breast	7	0.370	.03
Cervix Uteri	14	1.526	n.s.

OPERATIVES IN RUBBER AND PLASTIC INDUSTRY

Breast	8	0.611	n.s.
Cervix Uteri	7	0.940	n.s.

C. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EVER EMPLOYED IN THE
 SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	11	1.781	n.s.
Breast	39	0.619	.03
Corpus Uteri	16	1.059	n.s.
Melanoma	5	2.790	.04
Colon Rectum	11	0.642	n.s.
Cervix Uteri	46	1.541	.03
Ovary	9	0.995	n.s.
Bladder	6	1.738	n.s.
Skin (other)	8	1.063	n.s.
Lymphoma	15	1.384	n.s.

SPINNERS IN TEXTILE MILL INDUSTRY

Breast	6	0.707	n.s.
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WEAVERS IN TEXTILE MILL INDUSTRY

Breast	5	0.468	n.s.
Corpus Uteri	6	1.889	n.s.
Cervix Uteri	5	1.148	n.s.

D. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)

OPERATIVES IN APPAREL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Breast	11	1.810	n.s.
Corpus Uteri	5	4.768	.02
Cervix Uteri	23	7.411	<.01

COOKS, EXCEPT PRIVATE HOUSEHOLD

Breast	28	0.849	n.s.
Corpus Uteri	5	0.549	n.s.
Colon Rectum	7	0.749	n.s.
Cervix Uteri	36	2.671	<.01
Bladder	6	3.122	.03
Skin (other)	5	1.116	n.s.

D. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

OPERATIVES IN FOOD INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Breast	19	0.657	n.s.
Corpus Uteri	5	0.604	n.s.
Colon Rectum	5	0.595	n.s.
Cervix Uteri	16	1.413	n.s.
Skin (other)	6	1.436	n.s.

HAIRDRESSERS AND COSMETOLOGISTS

Breast	14	0.858	n.s.
Corpus Uteri	6	2.819	.04
Cervix Uteri	8	0.841	n.s.
Ovary	8	2.542	.03
Lymphoma	5	2.328	n.s.

D. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES)(cont'd)

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Buccal Cavity & Pharynx	5	2.152	n.s.
Breast	13	0.606	n.s.
Corpus Uteri	5	0.808	n.s.
Cervix Uteri	16	1.862	n.s.

OPERATIVES IN LEATHER INDUSTRY

Breast	8	1.161	n.s.
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OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

Breast	20	0.679	n.s.
Cervix Uteri	27	1.728	.04
Ovary	5	0.931	n.s.
Lymphoma	7	1.848	n.s.

D. NUMBER OF CASES, RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR WOMEN EMPLOYED AT LEAST 5 YEARS
 IN THE SPECIFIED OCCUPATION (ALL AGES) (cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	NO. OF CASES	RELATIVE RISK	PROBABILITY
Cervix Uteri	7	3.171	.04

OPERATIVES IN PAPER INDUSTRY

Breast	7	0.657	n.s.
Cervix Uteri	5	1.342	n.s.

OPERATIVES IN TEXTILE MILL INDUSTRY

Buccal Cavity & Pharynx	5	1.488	n.s.
Breast	21	0.687	n.s.
Corpus Uteri	10	1.328	n.s.
Cervix Uteri	24	1.818	.04
Ovary	9	1.879	n.s.
Skin (other)	6	1.632	n.s.
Lymphoma	8	2.194	n.s.

WEAVERS IN TEXTILE MILL INDUSTRY

Corpus Uteri	5	2.571	n.s.
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SECTION II

Numbers of Cases and Controls and
Relative Risks by Age for Each Cancer
Site Studied, by Occupation

A. Men ever employed	65
B. Men employed at least 5 years	119
C. Women ever employed	155
D. Women employed at least 5 years	173

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS

BAKERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	1	50	4	111	Esophagus	<60	*	0	5
	60+	0.88	3	49	7	100		60+	*	0	5
	All	0.76						All	*		
Stomach	<60	13.88	1	2			Colon	<60	0.75	1	37
	60+	2.38	2	12			Rectum	60+	0.30	1	47
	All	3.36						All	0.44		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.11	2	50
	60+	0.49	1	29				60+	*	0	57
	All	0.39†						All	0.35†		
Prostate	<60	*	0	4			Testis	<60	5.55	2	10
	60+	3.81	4	15				60+	*	0	2
	All	3.29†						All	4.09†		
Kidney	<60	*	0	5			Bladder	<60	6.17	2	9
	60+	*	0	2				60+	0.46	1	31
	All	*						All	1.23		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	0.95	3	45
	All	*						All	0.74†		
Brain	<60	27.75	1	1			Lymphomas	<60	2.03	3	41
	60+	*	0	0				60+	2.04	3	21
	All	27.75†						All	2.03		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

BARBERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.32	1	50	7	111	Esophagus	<60	*	0	5
	60+	0.45	2	49	9	100		60+	*	0	5
	All	0.40						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	*	0	12				60+	0.47	2	47
	All	*						All	0.30†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	2.78	1	4				60+	2.22	1	5
	All	2.34†						All	1.72†		
Larynx	<60	1.13	1	14			Lung	<60	0.63	2	50
	60+	3.45	9	29				60+	1.17	6	57
	All	2.83						All	0.96		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	0.74	1	15				60+	*	0	2
	All	0.62†						All	*		
Kidney	<60	*	0	5			Bladder	<60	1.76	1	9
	60+	5.56	1	2				60+	1.43	4	31
	All	1.96†						All	1.49		
Melanoma	<60	*	0	2			Skin (other)	<60	0.63	1	25
	60+	11.11	1	1				60+	0.25	1	45
	All	4.36†						All	0.36		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	1.44	1	11
	60+	*	0	2				60+	2.78	2	8
	All	*						All	2.10		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

BLACKSMITHS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	1	50	4	111	Esophagus	<60	*	0	5
	60+	1.53	3	49	4	100		60+	*	0	5
	All	1.06						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	4.17	2	12				60+	2.13	4	47
	All	3.62†						All	1.24†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.66	3	50
	60+	2.59	3	29				60+	0.88	2	57
	All	1.80†						All	1.23		
Prostate	<60	6.94	1	4			Testis	<60	*	0	10
	60+	6.67	4	15				60+	*	0	2
	All	6.72						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	12.50	1	2				60+	2.42	3	31
	All	3.81†						All	1.92†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	25.00	1	1				60+	0.56	1	45
	All	8.77†						All	0.37†		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

BOILERMAKERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	50	0	111	Esophagus	<60	*	0	5
	60+	3.06	3	49	2	100		60+	10.00	1	5
	All	3.00†						All	9.25†		
Stomach	<60	*	0	2			Colon Rectum	<60	*	1	37
	60+	4.17	1	12				60+	*	0	47
	All	4.13†						All	*		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	*	2	50
	60+	*	0	29				60+	2.63	3	57
	All	*						All	4.40†		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	50.00	2	2				60+	5.23	2	31
	All	32.50†						All	3.20†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	*						All	*		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	2.38	1	21
	All	*						All	2.34†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

BRICKMASONS, STONEMASONS AND TILE SETTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.33	3	50	5	111	Esophagus	<60	4.44	1	5
	60+	0.68	1	49	3	100		60+	6.67	1	5
	All	1.07						All	5.34		
Stomach	<60	*	0	2			Colon Rectum	<60	1.20	2	37
	60+	5.56	2	12				60+	2.13	3	47
	All	4.48†						All	1.63		
Pancreas	<60	*	0	1			Nose	<60	11.10	1	2
	60+	*	0	4				60+	13.33	2	5
	All	*						All	12.43		
Larynx	<60	*	0	14			Lung	<60	2.66	6	50
	60+	1.15	1	29				60+	1.75	3	57
	All	0.67†						All	2.26		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	8.88	2	5			Bladder	<60	2.47	1	9
	60+	*	0	2				60+	2.15	2	31
	All	6.86†						All	2.24		
Melanoma	<60	*	0	2			Skin (other)	<60	0.89	1	25
	60+	*	0	1				60+	*	0	45
	All	*						All	0.40†		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	8.33	2	8
	All	*						All	2.78†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

BUS DRIVERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.48	4	50	6	111	Esophagus	<60	*	0	5
	60+	0.68	1	49	3	100		60+	*	0	5
	All	1.19						All	*		
Stomach	<60	9.25	1	2			Colon Rectum	<60	0.50	1	37
	60+	*	0	12				60+	2.13	3	47
	All	2.06†						All	1.18		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	8.33	1	4				60+	*	0	5
	All	5.89†						All	*		
Larynx	<60	*	0	14			Lung	<60	1.85	5	50
	60+	*	0	29				60+	1.75	3	57
	All	*						All	1.81		
Prostate	<60	4.62	1	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	1.46†						All	*		
Kidney	<60	7.40	2	5			Bladder	<60	4.11	2	9
	60+	*	0	2				60+	2.15	2	31
	All	5.88†						All	2.78		
Melanoma	<60	*	0	2			Skin (other)	<60	0.74	1	25
	60+	*	0	1				60+	2.22	3	45
	All	*						All	1.49		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	3.17	2	21
	All	*						All	0.71†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

CARPENTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.69	9	50	29	111	Esophagus	<60	*	0	5
	60+	0.88	19	49	44	100		60+	0.91	2	5
	All	0.81						All	0.56†		
Stomach	<60	*	0	2			Colon Rectum	<60	0.52	5	37
	60+	2.27	12	12				60+	0.63	13	47
	All	2.02†						All	0.59		
Pancreas	<60	*	0	1			Nose	<60	1.91	1	2
	60+	0.57	1	4				60+	0.91	2	5
	All	0.49†						All	1.12		
Larynx	<60	1.09	4	14			Lung	<60	0.92	12	50
	60+	0.86	11	29				60+	1.24	31	57
	All	0.92						All	1.12		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	1.97	13	15				60+	1.14	1	2
	All	1.65†						All	0.28†		
Kidney	<60	0.76	1	5			Bladder	<60	0.42	1	9
	60+	1.14	1	2				60+	0.88	12	31
	All	0.90						All	0.81		
Melanoma	<60	1.91	1	2			Skin (other)	<60	0.76	5	25
	60+	*	0	1				60+	0.71	14	45
	All	1.10†						All	0.72		
Brain	<60	*	0	1			Lymphoma	<60	0.75	8	41
	60+	*	0	0				60+	0.76	7	21
	All	*						All	0.75		
Myeloma	<60	*	0	8			Leukemia	<60	0.70	2	11
	60+	2.27	2	2				60+	0.85	3	8
	All	0.63†						All	0.78		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	5	50	20	111	Esophagus	<60	2.22	2	5
	60+	2.04	7	49	7	100		60+	2.86	1	5
	All	0.99						All	2.37		
Stomach	<60	11.10	4	2			Colon Rectum	<60	0.45	3	37
	60+	2.38	2	12				60+	0.61	2	47
	All	4.25						All	0.51		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	3.57	1	4				60+	*	0	5
	All	2.30†						All	*		
Larynx	<60	2.38	6	14			Lung	<60	0.44	4	50
	60+	1.48	3	29				60+	2.51	10	57
	All	1.90						All	1.12		
Prostate	<60	*	0	4			Testis	<60	0.56	1	10
	60+	*	0	15				60+	*	0	2
	All	*						All	0.52†		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	7.14	1	2				60+	1.38	3	31
	All	1.05†						All	0.82†		
Melanoma	<60	*	0	2			Skin (other)	<60	0.22	1	25
	60+	14.29	1	1				60+	1.59	5	45
	All	2.72†						All	0.81		
Brain	<60	*	0	1			Lymphomas	<60	0.41	3	41
	60+	*	0	0				60+	0.68	1	21
	All	*						All	0.46		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	7.14	1	2				60+	3.57	2	8
	All	0.68†						All	0.84†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.66	6	50	8	111	Esophagus	<60	*	0	5
	60+	0.68	2	49	6	100		60+	6.67	2	5
	All	1.22						All	3.08†		
Stomach	<60	6.94	1	2			Colon Rectum	<60	*	0	37
	60+	*	0	12				60+	*	0	47
	All	1.14†						All	*		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	1.98	2	14			Lung	<60	0.56	2	50
	60+	0.58	1	29				60+	1.46	5	57
	All	1.09						All	1.00		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	0.54	1	27
	All	*						All	0.40†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	1
	All	*						All	*		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	0.79	1	21
	All	*						All	0.24†		
Myeloma	<60	*	0	8			Leukemia	<60	1.26	1	1
	60+	*	0	2				60+	*	0	0
	All	*						All	0.78†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FOREMEN IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	1	50	2	111	Esophagus	<60	*	0	5
	60+	*	0	49	4	100		60+	*	0	5
	All	0.35†						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	1.50	1	37
	60+	2.08	1	12				60+	*	0	47
	All	1.93†						All	0.40†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.11	1	50
	60+	*	0	29				60+	1.32	3	57
	All	*						All	1.26		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	1.67	1	15				60+	*	0	2
	All	1.48†						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	*	0	31
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	0.56	1	45
	All	*						All	0.44†		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	1.19	1	21
	All	*						All	0.63†		
Myeloma	<60	*	0	8			Leukemia	<60	5.05	1	11
	60+	*	0	2				60+	*	0	8
	All	*						All	1.97		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

CRANEMEN, DERRICKMEN AND HOISTMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	50	7	111	Esophagus	<60	*	0	5
	60+	2.04	6	49	6	100		60+	*	0	5
	All	0.99†						All	*		
Stomach	<60	7.93	1	2			Colon Rectum	<60	0.43	1	37
	60+	1.39	1	12				60+	0.71	2	47
	All	2.36						All	0.58		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	4.17	1	4				60+	*	0	5
	All	3.30†						All	*		
Larynx	<60	1.13	1	14			Lung	<60	1.27	4	50
	60+	*	0	29				60+	0.88	3	57
	All	0.38†						All	1.06		
Prostate	<60	*	0	4			Testis	<60	3.17	2	10
	60+	1.11	1	15				60+	*	0	2
	All	0.87†						All	2.66†		
Kidney	<60	*	0	5			Bladder	<60	1.76	1	9
	60+	*	0	2				60+	1.08	2	31
	All	*						All	1.24		
Melanoma	<60	7.93	1	2			Skin (other)	<60	1.90	3	25
	60+	*	0	1				60+	0.37	1	45
	All	5.35†						All	0.93		
Brain	<60	*	0	1			Lymphoma	<60	0.77	2	41
	60+	*	0	0				60+	*	0	21
	All	*						All	0.52†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

DELIVERYMEN AND ROUTEMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.40	12	50	19	111	Esophagus	<60	1.17	1	5
	60+	0.79	7	49	18	100		60+	*	0	5
	All	1.09						All	0.57†		
Stomach	<60	2.92	1	2			Colon Rectum	<60	1.74	11	37
	60+	0.93	2	12				60+	1.06	9	47
	All	1.20						All	1.35		
Pancreas	<60	5.84	1	1			Nose	<60	*	0	2
	60+	*	0	4				60+	2.22	2	5
	All	1.13†						All	1.60†		
Larynx	<60	0.42	1	14			Lung	<60	0.93	8	50
	60+	0.77	4	29				60+	1.17	12	57
	All	0.66						All	1.06		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	0.74	2	15				60+	*	0	2
	All	0.59†						All	*		
Kidney	<60	1.17	1	5			Bladder	<60	2.60	4	9
	60+	*	0	2				60+	0.72	4	31
	All	0.82†						All	1.13		
Melanoma	<60	2.92	1	2			Skin (other)	<60	1.64	7	25
	60+	*	0	1				60+	0.49	4	45
	All	1.92†						All	0.89		
Brain	<60	5.84	1	1			Lymphomas	<60	1.28	9	41
	60+	*	0	0				60+	1.06	4	21
	All	5.84†						All	1.20		
Myeloma	<60	*	0	8			Leukemia	<60	0.53	1	11
	60+	5.56	2	2				60+	0.69	1	8
	All	1.15†						All	0.60		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

ELECTRICIANS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.40	2	50	11	111	Esophagus	<60	2.02	1	5
	60+	2.55	10	49	8	100		60+	2.50	1	5
	All	1.36						All	2.24		
Stomach	<60	*	0	2			Colon Rectum	<60	0.54	2	37
	60+	2.08	2	12				60+	0.80	3	47
	All	1.74†						All	0.67		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	3.60	5	14			Lung	<60	2.02	10	50
	60+	0.43	1	29				60+	2.19	10	57
	All	1.60						All	2.10		
Prostate	<60	2.52	1	4			Testis	<60	2.02	2	10
	60+	0.83	1	15				60+	6.25	1	2
	All	1.25						All	2.62		
Kidney	<60	*	0	5			Bladder	<60	2.24	2	9
	60+	*	0	2				60+	1.61	4	31
	All	*						All	1.78		
Melanoma	<60	*	0	2			Skin (other)	<60	0.81	2	25
	60+	*	0	1				60+	0.56	2	45
	All	*						All	0.66		
Brain	<60	*	0	1			Lymphoma	<60	0.49	2	41
	60+	*	0	0				60+	1.19	2	21
	All	*						All	0.70		
Myeloma	<60	*	0	8			Leukemia	<60	0.92	1	11
	60+	*	0	2				60+	*	0	8
	All	*						All	0.58†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

EXCAVATING, GRADING AND ROAD MACHINERY OPERATORS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	2	50	8	111	Esophagus	<60	2.78	1	5
	60+	0.68	2	49	6	100		60+	*	0	5
	All	0.61						All	1.50†		
Stomach	<60	*	0	2			Colon Rectum	<60	0.38	1	37
	60+	1.39	1	12				60+	0.36	1	47
	All	1.16†						All	0.36		
Pancreas	<60	*	0	1			Nose	<60	6.94	1	2
	60+	*	0	4				60+	*	0	5
	All	*						All	2.22†		
Larynx	<60	0.99	1	14			Lung	<60	0.83	3	50
	60+	*	0	29				60+	0.88	3	57
	All	0.36†						All	0.85		
Prostate	<60	*	0	4			Testis	<60	1.39	1	10
	60+	*	0	15				60+	*	0	2
	All	*						All	1.19†		
Kidney	<60	*	0	5			Bladder	<60	3.08	2	9
	60+	*	0	2				60+	0.54	1	31
	All	*						All	1.19		
Melanoma	<60	6.94	1	2			Skin (other)	<60	0.56	1	25
	60+	16.67	1	1				60+	0.37	1	45
	All	9.92						All	0.44		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	1.26	1	11
	60+	8.33	1	2				60+	*	0	8
	All	1.45†						All	0.78†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FARMERS AND MANAGERS IN DAIRY FARMS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	50	8	111	Esophagus	<60	*	0	5
	60+	0.41	1	49	5	100		60+	*	0	5
	All	0.17†						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	0.75	2	37
	60+	*	0	12				60+	0.85	2	47
	All	*						All	0.80		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	0.99	1	14			Lung	<60	*	0	50
	60+	1.38	2	29				60+	1.05	3	57
	All	1.22						All	0.47†		
Prostate	<60	3.47	1	4			Testis	<60	*	0	10
	60+	5.33	4	15				60+	*	0	2
	All	4.83						All	*		
Kidney	<60	*	0	5			Bladder	<60	4.62	3	9
	60+	10.00	1	2				60+	2.58	4	31
	All	2.24†						All	3.15		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	*						All	*		
Brain	<60	*	0	1			Lymphoma	<60	0.34	1	41
	60+	*	0	0				60+	1.90	2	21
	All	*						All	0.75		
Myeloma	<60	3.47	2	8			Leukemia	<60	2.52	2	11
	60+	*	0	2				60+	*	0	8
	All	2.93†						All	1.66†		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FARMERS AND MANAGERS IN GENERAL CROP AND LIVESTOCK FARMS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.33	5	50	34	111	Esophagus	<60	1.96	3	5
	60+	0.72	38	49	107	100		60+	0.56	3	5
	All	0.63						All	1.00		
Stomach	<60	3.26	2	2			Colon Rectum	<60	0.79	9	37
	60+	1.56	20	12				60+	0.48	24	47
	All	1.67						All	0.58		
Pancreas	<60	*	0	1			Nose	<60	1.63	1	2
	60+	1.17	5	4				60+	0.75	4	5
	All	1.05†						All	0.89		
Larynx	<60	1.63	7	14			Lung	<60	0.65	10	50
	60+	0.32	10	29				60+	0.67	41	57
	All	0.55						All	0.69		
Prostate	<60	2.45	3	4			Testis	<60	1.63	5	10
	60+	1.43	23	15				60+	*	0	2
	All	1.52						All	1.14†		
Kidney	<60	1.31	2	5			Bladder	<60	1.45	4	9
	60+	1.87	4	2				60+	0.45	15	32
	All	1.49						All	0.57		
Melanoma	<60	3.26	2	2			Skin (other)	<60	0.39	3	21
	60+	3.74	4	1				60+	0.83	40	41
	All	3.11						All	0.76		
Brain	<60	6.53	2	1			Lymphoma	<60	0.72	9	41
	60+	*	0	0				60+	0.44	10	21
	All	6.53†						All	0.59		
Myeloma	<60	*	0	8			Leukemia	<60	0.30	1	1
	60+	0.93	2	2				60+	0.70	6	
	All	0.41†						All	0.58		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FILERS, GRINDERS AND POLISHERS, METAL

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.27	3	50	25	111	Esophagus	<60	0.89	1	5
	60+	*	0	49	16	100		60+	2.50	2	5
	All	0.16†						All	1.58		
Stomach	<60	4.44	2	2			Colon Rectum	<60	0.36	3	37
	60+	1.56	3	12				60+	0.94	7	47
	All	2.06						All	0.64		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	0.32	1	14			Lung	<60	0.89	10	50
	60+	0.22	1	29				60+	0.77	7	57
	All	0.26						All	0.83		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	3.12	1	2
	All	*						All	0.40†		
Kidney	<60	*	0	5			Bladder	<60	1.48	3	9
	60+	*	0	2				60+	0.81	4	31
	All	*						All	0.99		
Melanoma	<60	2.22	1	2			Skin (other)	<60	0.35	2	25
	60+	*	0	1				60+	0.69	5	45
	All	1.60†						All	0.55		
Brain	<60	*	0	1			Lymphomas	<60	0.22	2	41
	60+	*	0	0				60+	0.30	1	21
	All	*						All	0.24		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	3.12	1	2				60+	0.78	1	8
	All	0.48†						All	0.27†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FOREMEN IN FOOD INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	1	50	2	111	Esophagus	<60	*	0	5
	60+	2.04	2	49	2	100		60+	10.00	1	5
	All	1.59						All	5.24†		
Stomach	<60	*	0	2			Colon Rectum	<60	1.50	1	37
	60+	4.17	1	12				60+	1.06	1	47
	All	3.62†						All	1.25		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	3.96	1	14			Lung	<60	*	0	50
	60+	3.45	2	29				60+	*	0	57
	All	3.61						All	*		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	6.67	2	15				60+	*	0	2
	All	5.36†						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	1.61	1	31
	All	*						All	1.28†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	*						All	*		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	2.38	1	21
	All	*						All	0.86†		
Myeloma	<60	*	0	8			Leukemia	<60	5.50	1	11
	60+	*	0	2				60+	6.25	1	8
	All	*						All	5.58		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FURNACEMEN, SMELTERMEN AND POURERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.74	3	50	9	111	Esophagus	<60	2.47	1	5
	60+	1.46	5	49	7	100		60+	5.71	2	5
	All	1.07						All	4.00		
Stomach	<60	*	0	2			Colon Rectum	<60	0.33	1	37
	60+	1.19	1	12				60+	1.52	5	47
	All	1.00†						All	0.96		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.23	5	50
	60+	*	0	29				60+	2.00	8	57
	All	*						All	1.62		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	0.95	1	15				60+	*	0	2
	All	0.73†						All	*		
Kidney	<60	*	0	5			Bladder	<60	5.48	4	9
	60+	*	0	2				60+	1.38	3	31
	All	*						All	2.40		
Melanoma	<60	*	0	2			Skin (other)	<60	0.49	1	25
	60+	14.29	1	1				60+	0.95	3	45
	All	4.41†						All	0.77		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	1.12	1	11
	60+	*	0	2				60+	5.36	3	8
	All	*						All	2.78		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	4	50	8	111	Esophagus	<60	*	0	5
	60+	2.55	5	49	4	100		60+	5.00	1	5
	All	1.63						All	1.84†		
Stomach	<60	*	0	2			Colon Rectum	<60	1.12	3	37
	60+	2.08	1	12				60+	*	0	47
	All	1.62†						All	0.65†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	5.00	1	5
	All	*						All	2.99†		
Larynx	<60	*	0	14			Lung	<60	0.55	2	50
	60+	3.45	4	29				60+	2.19	5	57
	All	1.88†						All	1.20		
Prostate	<60	*	0	4			Testis	<60	1.39	1	10
	60+	*	0	15				60+	*	0	2
	All	*						All	1.24†		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	1.61	2	31
	All	*						All	1.07†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	1.11	2	45
	All	*						All	0.56†		
Brain	<60	*	0	1			Lymphomas	<60	1.35	4	41
	60+	*	0	0				60+	*	0	21
	All	*						All	1.05†		
Myeloma	<60	*	0	8			Leukemia	<60	3.78	3	11
	60+	*	0	2				60+	*	0	8
	All	*						All	2.62†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN LEATHER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.48	6	50	9	111	Esophagus	<60	*	0	5
	60+	8.16	12	49	3	100		60+	6.67	1	5
	All	3.38						All	1.90†		
Stomach	<60	6.17	1	2			Colon Rectum	<60	1.00	3	37
	60+	2.78	1	12				60+	2.13	3	47
	All	3.64						All	1.37		
Pancreas	<60	12.33	1	1			Nose	<60	*	0	2
	60+	8.33	1	4				60+	6.67	1	5
	All	9.07						All	3.38†		
Larynx	<60	0.88	1	14			Lung	<60	0.25	1	50
	60+	6.90	6	29				60+	1.17	2	57
	All	3.63						All	0.53		
Prostate	<60	*	0	4			Testis	<60	1.23	1	10
	60+	4.44	2	15				60+	*	0	2
	All	2.68†						All	1.14†		
Kidney	<60	4.93	2	5			Bladder	<60	2.74	2	9
	60+	*	0	2				60+	9.68	9	31
	All	4.12†						All	6.77		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	0.74	1	45
	All	*						All	0.30†		
Brain	<60	*	0	1			Lymphomas	<60	0.60	2	41
	60+	*	0	0				60+	3.18	2	21
	All	*						All	1.03		
Myeloma	<60	1.54	1	8			Leukemia	<60	*	0	11
	60+	33.33	2	2				60+	4.17	1	8
	All	4.63						All	0.92†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LINEMEN AND SERVICEMEN, TELEGRAPH, TELEPHONE AND POWER

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.49	2	50	9	111	Esophagus	<60	*	0	5
	60+	2.62	9	49	7	100		60+	2.86	1	5
	All	1.48						All	1.33+		
Stomach	<60	*	0	2			Colon Rectum	<60	1.33	4	37
	60+	*	0	12				60+	0.91	3	47
	All	*						All	1.11		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	3.52	4	14			Lung	<60	0.49	2	50
	60+	*	0	29				60+	0.50	2	57
	All	1.25+						All	0.50		
Prostate	<60	*	0	4			Testis	<60	1.23	1	10
	60+	0.95	1	15				60+	*	0	2
	All	0.73+						All	1.05+		
Kidney	<60	7.40	3	5			Bladder	<60	2.74	2	9
	60+	*	0	2				60+	0.92	2	31
	All	5.43+						All	1.37		
Melanoma	<60	6.17	1	2			Skin (other)	<60	0.99	2	25
	60+	*	0	1				60+	1.59	5	45
	All	4.26+						All	1.35		
Brain	<60	*	0	1			Lymphoma	<60	1.80	6	41
	60+	*	0	0				60+	0.68	1	21
	All	*						All	1.46		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	1.78	1	8
	All	*						All	0.69+		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LOCOMOTIVE ENGINEERS AND FIREMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.89	4	50	10	111	Esophagus	<60	*	0	5
	60+	2.20	14	49	13	100		60+	*	0	5
	All	1.63						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	1.28	2	12				60+	1.15	7	47
	All	1.14†						All	0.73†		
Pancreas	<60	11.10	1	1			Nose	<60	*	0	2
	60+	*	0	4				60+	1.54	1	5
	All	1.72†						All	1.19†		
Larynx	<60	0.79	1	14			Lung	<60	0.44	2	50
	60+	1.06	4	29				60+	1.35	10	57
	All	0.99						All	1.00		
Prostate	<60	*	0	4			Testis	<60	1.11	1	10
	60+	1.03	2	15				60+	*	0	2
	All	0.86†						All	0.87†		
Kidney	<60	4.44	2	5			Bladder	<60	1.23	1	9
	60+	*	0	2				60+	1.74	7	31
	All	2.89†						All	1.65		
Melanoma	<60	11.10	2	2			Skin (other)	<60	0.44	1	25
	60+	7.69	1	1				60+	1.37	8	45
	All	9.70						All	1.10		
Brain	<60	*	0	1			Lymphoma	<60	0.54	2	41
	60+	*	0	0				60+	2.20	6	21
	All	*						All	1.23		
Myeloma	<60	*	0	8			Leukemia	<60	1.01	1	11
	60+	*	0	2				60+	0.96	1	8
	All	*						All	0.99		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN LUMBER AND WOOD INDUSTRY, EXCEPT FURNITURE

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	2.22	4	50	4	111	Esophagus	<60	5.55	1	5
	60+	1.63	4	49	5	100		60+	4.00	1	5
	All	1.88						All	4.65		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	1.67	1	12				60+	0.43	1	47
	All	1.48†						All	0.27†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	1.98	1	14			Lung	<60	0.56	1	50
	60+	0.69	1	29				60+	0.35	1	57
	All	1.03						All	0.43		
Prostate	<60	*	0	4			Testis	<60	2.78	1	10
	60+	1.33	1	15				60+	*	0	2
	All	1.12†						All	2.18†		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	10.00	1	2				60+	0.64	1	31
	All	3.46†						All	0.53†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	*						All	*		
Brain	<60	*	0	1			Lymphomas	<60	1.35	2	41
	60+	*	0	0				60+	*	0	21
	All	*						All	0.80†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	10.00	1	2				60+	*	0	8
	All	2.51†						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MACHINISTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.04	7	50	15	111	Esophagus	<60	1.48	1	5
	60+	1.79	14	49	16	100		60+	2.50	2	5
	All	1.43						All	2.02		
Stomach	<60	3.70	1	2			Colon Rectum	<60	0.80	4	37
	60+	0.52	1	12				60+	1.06	8	47
	All	0.92						All	0.96		
Pancreas	<60	7.40	1	1			Nose	<60	11.10	3	2
	60+	*	0	4				60+	1.25	1	5
	All	1.32†						All	3.85		
Larynx	<60	3.17	6	14			Lung	<60	1.18	8	50
	60+	0.86	4	29				60+	1.32	12	57
	All	1.55						All	1.26		
Prostate	<60	1.85	1	4			Testis	<60	2.22	3	10
	60+	2.50	6	15				60+	3.12	1	2
	All	2.37						All	2.39		
Kidney	<60	1.48	1	5			Bladder	<60	0.82	1	9
	60+	9.38	3	2				60+	1.21	6	
	All	3.91						All	1.13		
Melanoma	<60	*	0	2			Skin (other)	<60	0.30	1	25
	60+	12.50	2	1				60+	0.97	7	"
	All	4.45†						All	0.75		
Brain	<60	14.80	2	1			Lymphoma	<60	0.90	5	4
	60+	*	0	0				60+	1.49	5	21
	All	14.80†						All	1.12		
Myeloma	<60	*	0	8			Leukemia	<60	1.35	2	1
	60+	3.12	1	2				60+	4.69	6	
	All	0.71†						All	2.85		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.72	28	50	86	111	Esophagus	<60	1.03	4	5
	60+	1.64	33	49	41	100		60+	1.95	4	5
	All	1.09						All	1.40		
Stomach	<60	1.94	3	2			Colon Rectum	<60	0.66	19	37
	60+	1.22	6	12				60+	1.71	33	47
	All	1.35						All	1.15		
Pancreas	<60	5.16	4	1			Nose	<60	1.94	3	2
	60+	1.83	3	4				60+	0.49	1	5
	All	2.58						All	1.03		
Larynx	<60	1.01	11	14			Lung	<60	0.80	31	50
	60+	1.26	15	29				60+	1.16	27	57
	All	1.16						All	0.95		
Prostate	<60	1.29	4	4			Testis	<60	0.90	7	10
	60+	2.28	14	15				60+	*	0	2
	All	1.99						All	0.80†		
Kidney	<60	1.81	7	5			Bladder	<60	0.57	4	9
	60+	1.22	1	2				60+	0.86	11	31
	All	1.66						All	0.78		
Melanoma	<60	1.29	2	2			Skin (other)	<60	0.57	11	25
	60+	4.88	2	1				60+	1.14	21	45
	All	2.23						All	0.88		
Brain	<60	3.87	3	1			Lymphomas	<60	0.57	18	41
	60+	*	0	0				60+	1.16	10	21
	All	3.87†						All	0.72		
Myeloma	<60	0.32	2	8			Leukemia	<60	0.59	5	11
	60+	1.22	1	2				60+	0.61	2	8
	All	0.44						All	0.60		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.28	3	50	24	111	Esophagus	<60	*	0	5
	60+	1.07	11	49	21	100		60+	0.95	1	5
	All	0.66						All	0.47†		
Stomach	<60	4.62	2	2			Colon Rectum	<60	0.12	1	37
	60+	1.19	3	12				60+	0.30	3	47
	All	1.69						All	0.22		
Pancreas	<60	9.25	2	1			Nose	<60	*	0	2
	60+	2.38	2	4				60+	*	0	5
	All	3.77						All	*		
Larynx	<60	0.99	3	14			Lung	<60	0.74	8	50
	60+	0.82	5	29				60+	1.09	13	57
	All	0.88						All	0.92		
Prostate	<60	2.31	2	4			Testis	<60	0.46	1	10
	60+	0.95	3	15				60+	2.38	1	2
	All	1.24						All	0.78		
Kidney	<60	*	0	5			Bladder	<60	0.51	1	9
	60+	*	0	2				60+	0.31	2	31
	All	*						All	0.36		
Melanoma	<60	2.31	1	2			Skin (other)	<60	*	0	25
	60+	4.76	1	1				60+	0.42	4	45
	All	3.12						All	0.27†		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	0.23	1	21
	All	*						All	0.08†		
Myeloma	<60	*	0	8			Leukemia	<60	0.42	1	11
	60+	*	0	2				60+	1.19	2	8
	All	*						All	0.74		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MECHANICS AND REPAIRMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.83	31	50	83	111	Esophagus	<60	0.53	2	5
	60+	1.11	36	49	66	100		60+	1.21	4	5
	All	0.96						All	0.86		
Stomach	<60	0.67	1	2			Colon Rectum	<60	0.65	18	37
	60+	1.77	14	12				60+	0.55	17	47
	All	1.60						All	0.60		
Pancreas	<60	4.01	3	1			Nose	<60	1.34	2	2
	60+	1.52	4	4				60+	2.12	7	5
	All	2.03						All	1.89		
Larynx	<60	1.34	14	14			Lung	<60	1.04	39	50
	60+	0.84	16	29				60+	1.20	45	57
	All	1.01						All	1.12		
Prostate	<60	2.01	6	4			Testis	<60	1.07	8	10
	60+	2.12	21	15				60+	0.76	1	2
	All	2.09						All	1.02		
Kidney	<60	*	0	5			Bladder	<60	1.49	10	9
	60+	3.03	4	2				60+	1.37	28	31
	All	0.82†						All	1.40		
Melanoma	<60	2.67	4	2			Skin (other)	<60	0.32	6	25
	60+	*	0	1				60+	0.88	26	45
	All	1.81†						All	0.67		
Brain	<60	*	0	1			Lymphoma	<60	0.78	24	41
	60+	*	0	0				60+	0.94	13	21
	All	*						All	0.83		
Myeloma	<60	0.84	5	8			Leukemia	<60	0.36	3	11
	60+	0.76	1	2				60+	1.33	7	8
	All	0.82						All	0.75		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.02	11	50	24	111	Esophagus	<60	*	0	5
	60+	1.10	7	49	13	100		60+	3.08	2	5
	All	1.05						All	1.22†		
Stomach	<60	*	0	2			Colon Rectum	<60	1.00	8	37
	60+	1.28	2	12				60+	0.66	4	47
	All	1.02†						All	0.85		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	3.85	2	4				60+	1.54	1	5
	All	2.83†						All	0.95†		
Larynx	<60	1.65	5	14			Lung	<60	0.46	5	50
	60+	0.80	3	29				60+	0.81	6	57
	All	1.16						All	0.61		
Prostate	<60	*	0	4			Testis	<60	0.46	1	10
	60+	1.03	2	15				60+	*	0	2
	All	0.72†						All	0.41†		
Kidney	<60	1.85	2	5			Bladder	<60	3.08	6	9
	60+	7.69	2	2				60+	1.74	7	31
	All	3.12						All	2.12		
Melanoma	<60	4.62	2	2			Skin (other)	<60	0.74	4	25
	60+	*	0	1				60+	0.34	2	45
	All	3.37†						All	0.53		
Brain	<60	*	0	1			Lymphomas	<60	0.45	4	41
	60+	*	0	0				60+	0.37	1	21
	All	*						All	0.43		
Myeloma	<60	*	0	8			Leukemia	<60	0.42	1	11
	60+	3.85	1	2				60+	1.92	2	8
	All	0.52†						All	0.90		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	3	50	12	111	Esophagus	<60	*	0	5
	60+	5.10	10	49	4	100		60+	10.00	2	5
	All	1.84						All	2.97†		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	2.08	1	12				60+	0.53	1	47
	All	1.47†						All	0.17†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	0.37	2	50
	60+	1.72	2	29				60+	3.07	7	57
	All	0.77†						All	1.21		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	1.67	1	15				60+	12.50	1	2
	All	0.99†						All	0.91†		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	*	0	31
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	0.37	1	25
	60+	25.00	1	1				60+	0.56	1	45
	All	4.57†						All	0.45		
Brain	<60	9.25	1	1			Lymphomas	<60	0.45	2	41
	60+	*	0	0				60+	*	0	21
	All	9.25†						All	0.38†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.17	10	50	19	111	Esophagus	<60	1.17	1	5
	60+	1.80	15	49	17	100		60+	*	0	5
	All	1.48						All	0.59†		
Stomach	<60	5.84	2	2			Colon Rectum	<60	0.47	3	37
	60+	2.45	5	12				60+	1.75	14	47
	All	2.94						All	1.19		
Pancreas	<60	11.68	2	1			Nose	<60	*	0	2
	60+	1.47	1	4				60+	2.35	2	5
	All	3.52						All	1.68†		
Larynx	<60	0.42	1	14			Lung	<60	1.52	13	50
	60+	1.01	5	29				60+	1.55	15	57
	All	0.82						All	1.53		
Prostate	<60	*	0	4			Testis	<60	2.34	4	10
	60+	2.74	7	15				60+	*	0	2
	All	2.16†						All	1.95†		
Kidney	<60	3.51	3	5			Bladder	<60	1.30	2	9
	60+	*	0	2				60+	0.57	3	31
	All	2.51†						All	0.73		
Melanoma	<60	*	0	2			Skin (other)	<60	0.47	2	25
	60+	5.88	1	1				60+	0.52	4	45
	All	1.95†						All	0.50		
Brain	<60	*	0	1			Lymphomas	<60	0.86	6	41
	60+	*	0	0				60+	1.68	6	21
	All	*						All	1.13		
Myeloma	<60	*	0	8			Leukemia	<60	2.12	4	11
	60+	5.88	2	2				60+	2.21	3	8
	All	1.17†						All	2.16		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A
Buccal Cavity & Pharynx	<60	0.87	9	50	23	111	Esophagus	<60	0.96	1
	60+	0.94	11	49	24	100		60+	2.50	3
	All	0.90						All	1.77	
Stomach	<60	*	0	2			Colon Rectum	<60	0.78	6
	60+	2.78	8	12				60+	0.71	8
	All	2.41†						All	0.74	
Pancreas	<60	4.83	1	1			Nose	<60	*	0
	60+	*	0	4				60+	*	0
	All	0.87†						All	*	
Larynx	<60	0.69	2	14			Lung	<60	0.39	4
	60+	0.86	6	29				60+	1.46	20
	All	0.81						All	0.99	
Prostate	<60	1.21	1	4			Testis	<60	0.48	1
	60+	0.83	3	15				60+	*	0
	All	0.90						All	0.39†	
Kidney	<60	*	0	5			Bladder	<60	1.07	2
	60+	*	0	2				60+	0.94	7
	All	*						All	0.97	
Melanoma	<60	*	0	2			Skin (other)	<60	0.39	2
	60+	*	0	1				60+	0.37	4
	All	*						All	0.38	
Brain	<60	*	0	1			Lymphomas	<60	0.82	7
	60+	*	0	0				60+	0.40	2
	All	*						All	0.67	
Myeloma	<60	*	0	8			Leukemia	<60	0.44	1
	60+	*	0	2				60+	1.56	3
	All	*						All	0.94	

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FOREMEN IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.48	2	50	3	111	Esophagus	<60	*	0	5
	60+	0.68	1	49	3	100		60+	*	0	5
	All	1.06						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	5.56	2	12				60+	0.71	1	47
	All	4.82†						All	0.41†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	6.67	1	5
	All	*						All	4.88†		
Larynx	<60	*	0	14			Lung	<60	1.48	2	50
	60+	2.30	2	29				60+	1.17	2	57
	All	1.60†						All	1.31		
Prostate	<60	*	0	4			Testis	<60	3.70	1	10
	60+	6.67	3	15				60+	*	0	2
	All	5.36†						All	3.03†		
Kidney	<60	7.40	1	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	1.08	1	31
	All	5.14†						All	0.85†		
Melanoma	<60	*	0	2			Skin (other)	<60	1.48	1	25
	60+	*	0	1				60+	0.74	1	45
	All	*						All	0.99		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	1.59	1	21
	All	*						All	0.57†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	4.17	1	8
	All	*						All	1.86†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MILLWRIGHTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.37	1	50	6	111	Esophagus	<60	3.70	1	5
	60+	0.61	3	49	10	100		60+	*	0	5
	All	0.53						All	1.34†		
Stomach	<60	18.50	2	2			Colon Rectum	<60	1.00	2	37
	60+	4.17	5	12				60+	0.21	1	47
	All	5.50						All	0.45		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.48	4	50
	60+	1.38	4	29				60+	0.53	3	57
	All	1.06†						All	0.84		
Prostate	<60	*	0	4			Testis	<60	1.85	1	10
	60+	1.33	2	15				60+	*	0	2
	All	1.16†						All	1.37†		
Kidney	<60	*	0	5			Bladder	<60	2.06	1	9
	60+	*	0	2				60+	1.29	4	31
	All	*						All	1.40		
Melanoma	<60	*	0	2			Skin (other)	<60	1.48	2	25
	60+	20.00	2	1				60+	0.67	3	45
	All	8.22†						All	0.86		
Brain	<60	18.50	1	1			Lymphoma	<60	0.90	2	41
	60+	*	0	0				60+	*	0	21
	All	18.50†						All	0.47†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MINE OPERATIVES AND LABORERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.59	4	50	15	111	Esophagus	<60	1.48	1	5
	60+	2.17	17	49	16	100		60+	2.50	2	5
	All	1.43						All	2.02		
Stomach	<60	*	0	2			Colon Rectum	<60	0.60	3	37
	60+	2.08	4	12				60+	1.33	10	47
	All	1.82†						All	1.03		
Pancreas	<60	*	0	1			Nose	<60	3.70	1	2
	60+	1.56	1	4				60+	1.25	1	5
	All	1.28†						All	1.88		
Larynx	<60	1.06	2	14			Lung	<60	0.59	4	50
	60+	1.08	5	29				60+	1.43	13	57
	All	1.07						All	1.07		
Prostate	<60	1.85	1	4			Testis	<60	*	0	10
	60+	2.08	5	15				60+	3.12	1	2
	All	2.04						All	2.59†		
Kidney	<60	*	0	5			Bladder	<60	0.82	1	9
	60+	*	0	2				60+	1.41	7	31
	All	*						All	1.29		
Melanoma	<60	3.70	1	2			Skin (other)	<60	1.48	5	25
	60+	12.50	2	1				60+	0.56	4	45
	All	6.78						All	0.85		
Brain	<60	7.40	1	1			Lymphomas	<60	0.54	3	41
	60+	*	0	0				60+	0.30	1	21
	All	7.40†						All	0.45		
Myeloma	<60	*	0	8			Leukemia	<60	2.02	3	11
	60+	6.25	2	2				60+	2.34	3	8
	All	1.40†						All	2.16		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MOLDERS, METAL

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	2	50	4	111	Esophagus	<60	*	0	5
	60+	0.73	5	49	14	100		60+	4.29	3	5
	All	0.82						All	3.07+		
Stomach	<60	13.87	1	2			Colon Rectum	<60	2.25	3	37
	60+	2.38	4	12				60+	0.46	3	47
	All	2.92						All	0.78		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	1.43	1	5
	All	*						All	1.27+		
Larynx	<60	*	0	14			Lung	<60	1.11	2	50
	60+	0.49	2	29				60+	1.75	14	57
	All	0.44+						All	1.60		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	0.95	2	15				60+	*	0	2
	All	0.89+						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	7.14	2	2				60+	0.46	2	31
	All	3.58+						All	0.43+		
Melanoma	<60	*	0	2			Skin (other)	<60	1.11	1	25
	60+	*	0	1				60+	*	0	45
	All	*						All	0.14+		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	0.34	1	21
	All	*						All	0.23+		
Myeloma	<60	*	0	8			Leukemia	<60	2.52	1	11
	60+	3.57	1	2				60+	0.89	1	8
	All	1.60+						All	1.35		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

PAINTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.21	12	50	22	111	Esophagus	<60	2.02	2	5
	60+	1.49	19	49	26	100		60+	3.85	5	5
	All	1.36						All	2.99		
Stomach	<60	12.61	5	2			Colon Rectum	<60	0.95	7	37
	60+	0.96	3	12				60+	1.31	16	47
	All	2.39						All	1.17		
Pancreas	<60	5.04	1	1			Nose	<60	*	0	2
	60+	*	0	4				60+	0.77	1	5
	All	0.84†						All	0.59†		
Larynx	<60	1.80	5	14			Lung	<60	2.12	21	50
	60+	0.66	5	29				60+	1.42	21	57
	All	0.98						All	1.71		
Prostate	<60	1.26	1	4			Testis	<60	1.01	2	10
	60+	2.05	8	15				60+	1.92	1	2
	All	1.91						All	1.19		
Kidney	<60	2.02	2	5			Bladder	<60	1.68	3	9
	60+	3.85	2	2				60+	1.61	13	31
	All	2.60						All	1.62		
Melanoma	<60	5.04	2	2			Skin (other)	<60	0.60	3	25
	60+	*	0	1				60+	0.77	9	45
	All	3.17†						All	0.72		
Brain	<60	*	0	1			Lymphoma	<60	0.37	3	41
	60+	*	0	0				60+	0.18	1	21
	All	*						All	0.30		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.78	8	50	10	111	Esophagus	<60	*	0	5
	60+	2.04	7	49	7	100		60+	2.86	1	5
	All	1.89						All	2.26†		
Stomach	<60	5.55	1	2			Colon Rectum	<60	1.20	4	37
	60+	1.19	1	12				60+	2.13	7	47
	All	1.94						All	1.67		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	7.14	2	4				60+	2.86	1	5
	All	5.49†						All	1.91†		
Larynx	<60	2.38	3	14			Lung	<60	0.67	3	50
	60+	2.46	5	29				60+	1.25	5	57
	All	2.43						All	0.94		
Prostate	<60	2.78	1	4			Testis	<60	1.11	1	10
	60+	*	0	15				60+	*	0	2
	All	0.70†						All	0.96†		
Kidney	<60	*	0	5			Bladder	<60	1.23	1	9
	60+	7.14	1	2				60+	0.46	1	31
	All	1.73†						All	0.67		
Melanoma	<60	*	0	2			Skin (other)	<60	0.89	2	25
	60+	*	0	1				60+	1.27	4	45
	All	*						All	1.11		
Brain	<60	11.10	1	1			Lymphomas	<60	1.35	5	41
	60+	*	0	0				60+	1.36	2	21
	All	11.10†						All	1.36		
Myeloma	<60	1.39	1	8			Leukemia	<60	*	0	11
	60+	7.14	1	2				60+	3.57	2	8
	All	2.35						All	1.31†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN PAPER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	1	50	4	111	Esophagus	<60	*	0	5
	60+	*	0	49	6	100		60+	*	0	5
	All	0.21†						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	1.50	2	37
	60+	*	0	10				60+	1.06	3	47
	All	*						All	1.21		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	1.98	1	14			Lung	<60	2.22	4	50
	60+	*	0	29				60+	0.88	3	57
	All	0.45†						All	1.35		
Prostate	<60	*	0	4			Testis	<60	2.78	1	10
	60+	1.11	1	15				60+	*	0	2
	All	0.96†						All	2.10†		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	0.54	1	31
	All	*						All	0.46†		
Melanoma	<60	13.88	1	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	7.95†						All	*		
Brain	<60	*	0	1			Lymphomas	<60	1.35	2	41
	60+	*	0	0				60+	*	0	21
	All	*						All	0.74†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

PLUMBERS AND PIPE FITTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.49	2	50	9	111	Esophagus	<60	2.47	1	5
	60+	2.04	12	49	12	100		60+	*	0	5
	All	1.39						All	1.02†		
Stomach	<60	6.17	1	2			Colon Rectum	<60	*	0	37
	60+	2.08	3	12				60+	1.06	6	47
	All	2.52						All	0.69†		
Pancreas	<60	12.33	1	1			Nose	<60	12.33	2	2
	60+	*	0	4				60+	3.33	2	5
	All	1.87†						All	5.41		
Larynx	<60	2.64	3	14			Lung	<60	1.48	6	50
	60+	0.57	2	29				60+	1.61	11	57
	All	1.10						All	1.56		
Prostate	<60	*	0	4			Testis	<60	1.23	1	10
	60+	0.56	1	15				60+	*	0	2
	All	0.47†						All	0.96†		
Kidney	<60	7.40	3	5			Bladder	<60	1.37	1	9
	60+	*	0	2				60+	1.61	6	31
	All	4.83†						All	1.57		
Melanoma	<60	*	0	2			Skin (other)	<60	0.99	2	25
	60+	8.33	1	1				60+	0.56	3	45
	All	3.33†						All	0.68		
Brain	<60	12.33	1	1			Lymphoma	<60	1.50	5	41
	60+	*	0	0				60+	0.40	1	21
	All	12.33†						All	1.04		
Myeloma	<60	*	0	8			Leukemia	<60	1.12	1	11
	60+	*	0	2				60+	1.04	1	8
	All	*						All	1.08		

RR= relative risk

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

PRINT WORKERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	2.78	5	50	4	111	Esophagus	<60	*	0	5
	60+	2.45	6	49	5	100		60+	4.00	1	5
	All	2.59						All	2.29†		
Stomach	<60	*	0	2			Colon Rectum	<60	3.00	4	37
	60+	1.67	1	12				60+	0.42	1	47
	All	1.48†						All	1.37		
Pancreas	<60	55.50	2	1			Nose	<60	13.88	1	2
	60+	*	0	4				60+	*	0	5
	All	9.10†						All	3.19†		
Larynx	<60	1.98	1	14			Lung	<60	2.22	4	50
	60+	1.38	2	29				60+	1.05	3	57
	All	1.54						All	1.51		
Prostate	<60	*	0	4			Testis	<60	2.78	1	10
	60+	*	0	15				60+	*	0	2
	All	*						All	2.18†		
Kidney	<60	*	0	5			Bladder	<60	3.08	1	9
	60+	10.00	1	2				60+	*	0	
	All	3.46†						All	0.54†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	40.00	2	1				60+	0.44	1	15
	All	15.02†						All	0.32†		
Brain	<60	*	0	1			Lymphoma	<60	0.68	1	41
	60+	*	0	0				60+	0.95	1	21
	All	*						All	0.79		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	
	60+	*	0	2				60+	*	0	
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FOREMEN IN RAILROAD TRANSPORTATION

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	50	3	111	Esophagus	<60	*	0	5
	60+	2.04	4	49	4	100		60+	*	0	5
	All	1.20†						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	*	0	12				60+	2.13	4	47
	All	*						All	1.38†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	0.74	1	50
	60+	0.86	1	29				60+	0.88	2	57
	All	0.65†						All	0.83		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	7.40	1	5			Bladder	<60	4.11	1	9
	60+	*	0	2				60+	1.61	2	31
	All	4.72†						All	2.03		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	1.11	2	45
	All	*						All	0.80†		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

ROOFERS AND SLATERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.74	1	50	3	111	Esophagus	<60	*	0	5
	60+	8.16	4	49	1	100		60+	*	0	5
	All	2.76						All	*		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	*	0	12				60+	2.13	1	47
	All	*						All	0.69†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	*	0	50
	60+	*	0	29				60+	5.26	3	57
	All	*						All	1.59†		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	100.00	2	2				60+	3.23	1	31
	All	14.74†						All	1.83†		
Melanoma	<60	18.50	1	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	2.22	1	45
	All	14.67†						All	0.90†		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN RUBBER AND PLASTIC INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.48	2	50	3	111	Esophagus	<60	7.40	1	5
	60+	0.68	2	49	6	100		60+	*	0	5
	All	0.94						All	2.40†		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	1.39	1	12				60+	1.06	3	47
	All	1.29†						All	0.78†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	1.48	2	50
	60+	0.58	1	29				60+	0.88	3	57
	All	0.47†						All	1.05		
Prostate	<60	9.25	1	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	1.02†						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	*	0	31
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	1.48	1	25
	60+	*	0	1				60+	*	0	45
	All	*						All	0.30†		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	0.79	1	21
	All	*						All	0.42†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

SHOEMAKERS AND REPAIRERS, EXCEPT FACTORY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.55	1	50	4	111	Esophagus	<60	*	0	5
	60+	14.29	7	49	1	100		60+	20.00	1	5
	All	3.63						All	4.61†		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	25.00	3	12				60+	6.38	3	47
	All	16.49†						All	1.71†		
Pancreas	<60	*	0	1			Nose	<60	13.87	1	2
	60+	*	0	4				60+	*	0	5
	All	*						All	7.29†		
Larynx	<60	*	0	14			Lung	<60	0.55	1	50
	60+	3.45	1	29				60+	5.26	3	57
	All	1.28†						All	1.71		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	6.67	1	15				60+	*	0	2
	All	3.48†						All	*		
Kidney	<60	*	0	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	3.23	1	31
	All	*						All	1.60†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	*	0	45
	All	*						All	*		
Brain	<60	*	0	1			Lymphomas	<60	0.68	1	41
	60+	*	0	0				60+	*	0	21
	All	*						All	0.59†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

STATIONARY ENGINEERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.49	2	50	9	111	Esophagus	<60	*	0	5
	60+	0.91	4	49	9	100		60+	2.22	1	5
	All	0.71						All	1.16†		
Stomach	<60	*	0	2			Colon Rectum	<60	1.00	3	37
	60+	0.93	1	12				60+	0.71	3	47
	All	0.80†						All	0.83		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	2.22	1	5
	All	*						All	1.63†		
Larynx	<60	1.76	2	14			Lung	<60	0.49	2	50
	60+	0.77	2	29				60+	0.78	4	57
	All	1.07						All	0.65		
Prostate	<60	3.08	1	4			Testis	<60	*	0	10
	60+	2.22	3	15				60+	*	0	2
	All	2.39						All	*		
Kidney	<60	2.47	1	5			Bladder	<60	4.11	3	9
	60+	5.56	1	2				60+	0.36	1	31
	All	3.40						All	1.14		
Melanoma	<60	*	0	2			Skin (other)	<60	0.99	2	25
	60+	11.11	1	1				60+	0.49	2	45
	All	3.90†						All	0.66		
Brain	<60	*	0	1			Lymphomas	<60	*	0	41
	60+	*	0	0				60+	0.53	1	21
	All	*						All	0.19†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	2.78	2	8
	All	*						All	1.23†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

STATIONARY FIREMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.40	2	50	11	111	Esophagus	<60	*	0	5
	60+	1.84	9	49	10	100		60+	2.00	1	5
	All	1.12						All	1.00†		
Stomach	<60	5.04	1	2			Colon Rectum	<60	0.27	1	37
	60+	1.67	2	12				60+	0.64	3	47
	All	2.15						All	0.48		
Pancreas	<60	10.09	1	1			Nose	<60	5.04	1	2
	60+	7.50	3	4				60+	2.00	1	5
	All	8.02						All	2.87		
Larynx	<60	1.44	2	14			Lung	<60	0.81	4	50
	60+	1.72	5	29				60+	1.75	10	57
	All	1.63						All	1.31		
Prostate	<60	*	0	4			Testis	<60	2.02	2	10
	60+	1.33	2	15				60+	*	0	2
	All	1.05†						All	1.68†		
Kidney	<60	2.02	1	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	0.64	2	31
	All	1.44†						All	0.50†		
Melanoma	<60	5.04	1	2			Skin (other)	<60	0.40	1	25
	60+	*	0	1				60+	0.67	3	45
	All	3.36†						All	0.57		
Brain	<60	*	0	1			Lymphomas	<60	0.49	2	41
	60+	*	1	0				60+	0.48	1	21
	All	*						All	0.49		
Myeloma	<60	*	0	8			Leukemia	<60	0.92	1	11
	60+	*	0	2				60+	1.25	1	8
	All	*						All	1.06		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

TAXICAB DRIVERS AND CHAUFFEURS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	8	50	16	111	Esophagus	<60	*	0	5
	60+	4.08	10	49	5	100		60+	4.00	1	5
	All	1.92						All	1.10†		
Stomach	<60	3.47	1	2			Colon Rectum	<60	0.75	4	37
	60+	1.67	1	12				60+	0.43	1	47
	All	2.15						All	0.65		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	4.00	1	5
	All	*						All	1.98†		
Larynx	<60	0.50	1	14			Lung	<60	0.42	3	50
	60+	0.69	1	29				60+	1.75	5	57
	All	0.58						All	0.82		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	1.33	1	15				60+	*	0	2
	All	0.78†						All	*		
Kidney	<60	*	0	5			Bladder	<60	2.31	3	9
	60+	*	0	2				60+	1.29	2	31
	All	*						All	1.70		
Melanoma	<60	*	0	2			Skin (other)	<60	0.55	2	25
	60+	20.00	1	1				60+	0.89	2	45
	All	3.51†						All	0.69		
Brain	<60	*	0	1			Lymphoma	<60	0.17	1	41
	60+	*	0	0				60+	1.90	2	45
	All	*						All	0.44		
Myeloma	<60	*	0	8			Leukemia	<60	1.26	2	11
	60+	*	0	2				60+	5.00	2	8
	All	*						All	2.08		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.89	4	50	10	111	Esophagus	<60	2.22	1	5
	60+	4.76	7	49	3	100		60+	6.67	1	5
	All	1.90						All	3.38		
Stomach	<60	11.10	2	2			Colon Rectum	<60	1.80	6	37
	60+	5.56	2	12				60+	1.42	2	47
	All	6.68						All	1.66		
Pancreas	<60	22.20	2	1			Nose	<60	*	0	2
	60+	*	0	4				60+	13.33	2	5
	All	7.28†						All	6.68†		
Larynx	<60	1.59	2	14			Lung	<60	0.67	3	50
	60+	3.45	3	29				60+	3.51	6	57
	All	2.36						All	1.49		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	6.67	3	15				60+	*	0	2
	All	3.91†						All	*		
Kidney	<60	*	0	5			Bladder	<60	2.47	2	9
	60+	*	0	2				60+	*	0	31
	All	*						All	1.11†		
Melanoma	<60	*	0	2			Skin (other)	<60	0.89	2	25
	60+	*	0	1				60+	0.74	1	45
	All	*						All	0.83		
Brain	<60	*	0	1			Lymphomas	<60	1.08	4	41
	60+	*	0	0				60+	*	0	21
	All	*						All	0.92†		
Myeloma	<60	*	0	8			Leukemia	<60	1.01	1	11
	60+	*	0	2				60+	4.17	1	8
	All	*						All	1.66		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

TINSMITHS, COPPERSMITHS, AND SHEET METAL WORKERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.11	2	50	4	111	Esophagus	<60	*	0	5
	60+	1.46	5	49	7	100		60+	2.86	1	5
	All	1.33						All	1.84†		
Stomach	<60	13.87	1	2			Colon Rectum	<60	1.50	2	37
	60+	*	0	12				60+	0.30	1	47
	All	1.13†						All	0.66		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	1.98	1	14			Lung	<60	0.55	1	50
	60+	*	0	29				60+	0.50	2	57
	All	0.40†						All	0.52		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	5.55	1	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	*	0	31
	All	3.22†						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	1.11	1	29
	60+	*	0	1				60+	0.63	2	49
	All	*						All	0.74		
Brain	<60	*	0	1			Lymphomas	<60	1.35	2	41
	60+	*	0	7				60+	*	0	21
	All	*						All	0.69†		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	*	0	8
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

TOOLMAKERS, DIEMAKERS AND SETTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.22	1	50	10	111	Esophagus	<60	2.22	1	5
	60+	1.46	5	49	7	100		60+	5.71	2	5
	All	0.76						All	3.79		
Stomach	<60	11.10	2	2			Colon Rectum	<60	1.20	4	37
	60+	*	0	12				60+	0.61	2	47
	All	1.91†						All	0.90		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	*	0	14			Lung	<60	0.89	4	50
	60+	2.96	6	29				60+	0.75	3	57
	All	1.84†						All	0.82		
Prostate	<60	*	0	4			Testis	<60	3.33	3	10
	60+	2.86	3	15				60+	*	0	2
	All	2.15†						All	2.86†		
Kidney	<60	2.22	1	5			Bladder	<60	1.23	1	9
	60+	*	0	2				60+	0.46	1	31
	All	1.68†						All	0.67		
Melanoma	<60	*	0	2			Skin (other)	<60	0.44	1	25
	60+	*	0	1				60+	1.27	4	45
	All	*						All	0.93		
Brain	<60	*	0	1			Lymphomas	<60	0.27	1	41
	60+	*	0	0				60+	0.68	1	21
	All	*						All	0.39		
Myeloma	<60	1.39	1	8			Leukemia	<60	*	0	11
	60+	21.43	3	2				60+	*	0	8
	All	4.83						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

FOREMEN IN TRANSPORTATION EQUIPMENT

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	50	7	111	Esophagus	<60	3.17	1	5
	60+	1.02	3	49	6	100		60+	*	0	5
	All	0.49†						All	1.62†		
Stomach	<60	*	0	2			Colon Rectum	<60	*	0	37
	60+	*	0	12				60+	0.35	1	47
	All	*						All	0.19†		
Pancreas	<60	*	0	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	*						All	*		
Larynx	<60	4.53	4	14			Lung	<60	0.63	2	50
	60+	*	0	29				60+	0.58	2	57
	All	1.52†						All	0.61		
Prostate	<60	*	0	4			Testis	<60	*	0	10
	60+	*	0	15				60+	*	0	2
	All	*						All	*		
Kidney	<60	3.17	1	5			Bladder	<60	*	0	9
	60+	*	0	2				60+	*	0	31
	All	2.29†						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	25
	60+	*	0	1				60+	0.74	2	45
	All	*						All	0.47†		
Brain	<60	*	0	1			Lymphoma	<60	*	0	41
	60+	*	0	0				60+	*	0	21
	All	*						All	*		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	2.08	1	8
	All	*						All	0.85†		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

TRUCK AND TRACTOR DRIVERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.96	37	50	86	111	Esophagus	<60	1.29	5	5
	60+	2.11	29	49	28	100		60+	0.71	1	5
	All	1.33						All	1.09		
Stomach	<60	1.94	3	2			Colon	<60	0.49	14	37
	60+	1.49	5	12			Rectum	60+	0.76	10	47
	All	1.56						All	0.60		
Pancreas	<60	1.29	1	1			Nose	<60	1.94	3	2
	60+	2.68	3	4				60+	1.43	2	5
	All	2.19						All	1.59		
Larynx	<60	1.38	15	14			Lung	<60	0.83	32	50
	60+	1.72	14	29				60+	1.50	24	57
	All	1.53						All	1.07		
Prostate	<60	0.97	3	4			Testis	<60	0.90	7	10
	60+	1.19	5	15				60+	*	0	2
	All	1.11						All	0.83†		
Kidney	<60	1.03	4	5			Bladder	<60	1.43	10	9
	60+	1.79	1	2				60+	1.84	16	31
	All	1.16						All	1.66		
Melanoma	<60	0.65	1	2			Skin (other)	<60	0.46	9	25
	60+	3.57	1	1				60+	0.79	10	45
	All	1.24						All	0.63		
Brain	<60	*	3	1			Lymphoma	<60	0.57	18	41
	60+	*	0	0				60+	0.85	5	21
	All	*						All	0.63		
Myeloma	<60	*	0	8			Leukemia	<60	0.59	5	11
	60+	*	0	2				60+	0.45	1	8
	All	*						All	0.51		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

A. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

WELDERS AND FLAME-CUTTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.44	4	50	20	111	Esophagus	<60	1.11	1	5
	60+	1.17	4	49	7	100		60+	*	0	5
	All	0.66						All	0.78†		
Stomach	<60	2.77	1	2			Colon Rectum	<60	0.60	4	37
	60+	2.38	2	12				60+	0.30	1	47
	All	2.44						All	0.50		
Pancreas	<60	5.55	1	1			Nose	<60	*	0	2
	60+	*	0	4				60+	*	0	5
	All	1.92†						All	*		
Larynx	<60	1.59	4	14			Lung	<60	0.89	8	50
	60+	*	0	29				60+	0.75	3	57
	All	0.85†						All	0.85		
Prostate	<60	*	0	4			Testis	<60	1.11	2	10
	60+	0.95	1	15				60+	*	0	2
	All	0.58†						All	1.02†		
Kidney	<60	*	0	5			Bladder	<60	0.62	1	9
	60+	7.14	1	2				60+	*	0	31
	All	1.05†						All	0.26†		
Melanoma	<60	2.77	1	2			Skin (other)	<60	0.44	5	25
	60+	*	0	1				60+	0.63	2	45
	All	2.21†						All	0.53		
Brain	<60	*	0	1			Lymphomas	<60	0.41	3	41
	60+	*	0	0				60+	1.36	2	21
	All	*						All	0.58		
Myeloma	<60	*	0	8			Leukemia	<60	*	0	11
	60+	*	0	2				60+	1.79	1	8
	All	*						All	0.41†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS

BARBERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.24	1	32	7	54	Esophagus	<60	*	0	4
	60+	0.50	2	33	8	66		60+	*	0	2
	All	0.37						All	*		
Stomach	<60	*	0	1			Colon Rectum	<60	*	0	24
	60+	*	0	9				60+	0.46	2	36
	All	*						All	0.27†		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	2.75	1	3				60+	2.06	1	4
	All	2.03†						All	1.63†		
Larynx	<60	0.96	1	8			Lung	<60	0.47	2	33
	60+	3.20	7	18				60+	1.24	6	40
	All	2.49						All	0.88		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	0.75	1	11				60+	*	0	2
	All	0.58†						All	*		
Kidney	<60	*	0	2			Bladder	<60	1.93	1	4
	60+	4.12	1	2				60+	1.74	4	19
	All	2.01†						All	1.77		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	8.25	1	1				60+	0.26	1	32
	All	4.03†						All	0.17†		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	*	0	13
	All	*						All	*		
Myeloma	<60	*	0	6			Leukemia	<60	1.10	1	7
	60+	*	0	1				60+	3.30	2	5
	All	*						All	1.99		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

BRICKMASONS, STONEMASONS AND TILE SETTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	5.06	3	32	1	54	Esophagus	<60	13.50	1	4
	60+	1.00	1	33	2	66		60+	16.50	1	2
	All	2.53						All	14.55		
Stomach	<60	*	0	1			Colon Rectum	<60	4.50	2	24
	60+	7.33	2	9				60+	2.75	3	36
	All	6.82†						All	3.26		
Pancreas	<60	*	0	1			Nose	<60	54.00	1	1
	60+	*	0	3				60+	16.50	2	4
	All	*						All	21.95		
Larynx	<60	*	0	8			Lung	<60	6.54	4	33
	60+	1.83	1	18				60+	1.65	2	40
	All	1.44†						All	3.32		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	*	0	11				60+	*	0	2
	All	*						All	*		
Kidney	<60	54.00	2	2			Bladder	<60	13.50	1	4
	60+	*	0	2				60+	3.47	2	19
	All	22.30†						All	4.66		
Melanoma	<60	*	0	1			Skin (other)	<60	3.60	1	15
	60+	*	0	1				60+	*	0	32
	All	*						All	0.81†		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	*	0	13
	All	*						All	*		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

BUS, TAXICAB AND TRUCK DRIVERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.98	39	32	67	54	Esophagus	<60	0.81	4	4
	60+	1.93	29	33	30	66		60+	*	0	2
	All	1.32						All	0.65†		
Stomach	<60	1.61	2	1			Colon Rectum	<60	0.47	14	24
	60+	0.73	3	9				60+	0.79	13	36
	All	0.89						All	0.63		
Pancreas	<60	0.81	1	1			Nose	<60	1.61	2	1
	60+	2.20	3	3				60+	1.65	3	4
	All	1.68						All	1.60		
Larynx	<60	1.51	15	8			Lung	<60	0.71	29	33
	60+	1.47	12	18				60+	1.15	21	40
	All	1.45						All	0.89		
Prostate	<60	0.81	3	3			Testis	<60	1.21	3	2
	60+	1.20	6	11				60+	*	0	2
	All	1.07						All	0.80†		
Kidney	<60	2.01	5	2			Bladder	<60	1.81	9	
	60+	1.10	1	2				60+	1.50	13	
	All	1.62						All	1.55		
Melanoma	<60	*	0	1			Skin (other)	<60	0.32	6	15
	60+	4.40	2	1				60+	0.76	11	
	All	1.68†						All	0.56		
Brain	<60	*	2	0			Lymphomas	<60	0.50	10	16
	60+	*	0	0				60+	1.18	7	13
	All	*						All	0.72		
Myeloma	<60	*	0	6			Leukemia	<60	0.46	4	
	60+	*	0	1				60+	1.32	3	
	All	*						All	0.71		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

CARPENTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.40	5	32	21	54.	Esophagus	<60	*	0	4
	60+	0.97	18	33	37	66		60+	1.78	2	2
	All	0.73						All	0.71†		
Stomach	<60	*	0	1			Colon Rectum	<60	0.21	2	24
	60+	1.78	9	9				60+	0.45	9	36
	All	1.64†						All	0.37		
Pancreas	<60	*	0	1			Nose	<60	2.57	1	1
	60+	0.60	1	3				60+	0.89	2	4
	All	0.48†						All	1.17		
Larynx	<60	0.64	2	8			Lung	<60	0.70	9	33
	60+	0.89	9	18				60+	0.98	22	40
	All	0.83						All	0.87		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	1.95	12	11				60+	*	0	2
	All	1.59†						All	*		
Kidney	<60	1.29	1	2			Bladder	<60	*	0	4
	60+	0.89	1	2				60+	0.84	9	19
	All	1.06						All	0.73†		
Melanoma	<60	2.57	1	1			Skin (other)	<60	0.51	3	15
	60+	*	0	1				60+	0.78	14	32
	All	1.13†						All	0.71		
Brain	<60	*	0	0			Lymphoma	<60	0.64	4	16
	60+	*	0	0				60+	0.96	7	13
	All	*						All	0.81		
Myeloma	<60	*	0	6			Leukemia	<60	0.37	1	7
	60+	3.57	2	1				60+	1.07	3	5
	All	0.65†						All	0.71		

RR= relative risk

A= number of cases in specified occupation

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	3	32	6	54	Esophagus	<60	4.50	2	4
	60+	2.40	6	33	5	66		60+	6.60	1	2
	All	1.50						All	5.05		
Stomach	<60	27.00	3	1			Colon Rectum	<60	0.38	1	24
	60+	2.93	2	9				60+	0.37	1	36
	All	5.88						All	0.37		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	4.40	1	3				60+	*	0	4
	All	3.02†						All	*		
Larynx	<60	6.75	6	8			Lung	<60	0.82	3	33
	60+	2.20	3	18				60+	2.31	7	40
	All	3.86						All	1.51		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	*	0	11				60+	*	0	2
	All	*						All	*		
Kidney	<60	*	0	2			Bladder	<60	*	0	4
	60+	*	0	2				60+	1.39	2	19
	All	*						All	1.07†		
Melanoma	<60	*	0	1			Skin (other)	<60	0.60	1	15
	60+	*	0	1				60+	0.82	2	32
	All	*						All	0.74		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	1.02	1	13
	All	*						All	0.37†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	13.20	1	1				60+	5.28	2	5
	All	1.40†						All	1.79†		

RR= relative risk

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B.RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

CRANEMEN, DERRICKMEN AND HOISTMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	32	5	54	Esophagus	<60	*	0	4
	60+	2.00	6	33	6	66		60+	*	0	2
	All	1.01†						All	*		
Stomach	<60	*	0	1			Colon Rectum	<60	*	0	24
	60+	1.22	1	9				60+	0.31	1	36
	All	1.10†						All	0.18†		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	3.67	1	3				60+	*	0	4
	All	2.74†						All	*		
Larynx	<60	1.35	1	8			Lung	<60	0.98	3	33
	60+	*	0	18				60+	0.82	3	40
	All	0.42†						All	0.90		
Prostate	<60	*	0	3			Testis	<60	10.80	2	2
	60+	1.00	1	11				60+	*	0	2
	All	0.78†						All	5.43†		
Kidney	<60	*	0	2			Bladder	<60	2.70	1	4
	60+	*	0	2				60+	1.16	2	19
	All	*						All	1.43		
Melanoma	<60	10.80	1	1			Skin (other)	<60	1.44	2	15
	60+	*	0	1				60+	*	0	32
	All	5.43†						All	0.46†		
Brain	<60	*	0	0			Lymphoma	<60	1.35	2	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.75†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

DELIVERYMEN AND ROUTEMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.48	7	32	8	54	Esophagus	<60	1.69	1	4
	60+	0.83	5	33	12	66		60+	*	0	2
	All	1.12						All	1.06†		
Stomach	<60	*	0	1			Colon Rectum	<60	1.69	6	24
	60+	0.61	1	9				60+	0.76	5	36
	All	0.56†						All	1.09		
Pancreas	<60	6.75	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	2.75	2	4
	All	1.49†						All	2.26†		
Larynx	<60	*	0	8			Lung	<60	1.23	6	33
	60+	0.61	2	18				60+	1.10	8	40
	All	0.45†						All	1.15		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	1.00	2	11				60+	*	0	2
	All	0.81†						All	*		
Kidney	<60	*	0	2			Bladder	<60	3.37	2	4
	60+	*	0	2				60+	0.29	1	19
	All	*						All	0.75		
Melanoma	<60	*	0	1			Skin (other)	<60	3.15	7	15
	60+	*	0	1				60+	0.34	2	32
	All	*						All	1.14		
Brain	<60	*	0	0			Lymphomas	<60	1.69	4	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.86†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	11.00	2	1				60+	1.10	1	5
	All	1.79†						All	0.51†		

RR= relative risk

A= number of cases in specified occupation

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

ELECTRICIANS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.38	2	32	9	54	Esophagus	<60	1.50	1	4
	60+	2.50	10	33	8	66		60+	4.12	1	2
	All	1.31						All	2.23		
Stomach	<60	*	0	1			Colon Rectum	<60	0.50	2	24
	60+	1.83	2	9				60+	0.69	3	36
	All	1.60†						All	0.60		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	3.75	5	8			Lung	<60	1.82	10	33
	60+	0.46	1	18				60+	2.06	10	40
	All	1.66						All	1.93		
Prostate	<60	2.00	1	3			Testis	<60	3.00	1	2
	60+	0.75	1	11				60+	4.12	1	2
	All	1.08						All	3.48		
Kidney	<60	*	0	2			Bladder	<60	3.00	2	4
	60+	*	0	2				60+	1.74	4	19
	All	*						All	2.00		
Melanoma	<60	*	0	1			Skin (other)	<60	0.80	2	15
	60+	*	0	1				60+	0.52	2	32
	All	*						All	0.63		
Brain	<60	*	0	0			Lymphoma	<60	0.38	1	16
	60+	*	0	0				60+	1.27	2	13
	All	*						All	0.71		
Myeloma	<60	*	0	6			Leukemia	<60	0.86	1	7
	60+	*	0	1				60+	*	0	5
	All	*						All	0.56†		

RR= relative risk

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

FARMERS AND MANAGERS IN DAIRY FARMS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Oral Cavity & Pharynx	<60	*	0	32	6	54	Esophagus	<60	*	0	4
	60+	0.40	1	33	5	66		60+	*	0	2
	All	0.17†						All	*		
Stomach	<60	*	0	1			Colon Rectum	<60	0.75	2	24
	60+	*	0	9				60+	0.73	2	36
	All	*						All	0.74		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	1.12	1	8			Lung	<60	*	0	33
	60+	1.47	2	18				60+	0.99	3	40
	All	1.33						All	0.45†		
Prostate	<60	3.00	1	3			Testis	<60	*	0	2
	60+	4.80	4	11				60+	*	0	2
	All	4.30						All	*		
Kidney	<60	*	0	2			Bladder	<60	6.75	3	4
	60+	6.60	1	2				60+	2.78	4	19
	All	2.79†						All	3.63		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	*	0	32
	All	*						All	*		
Brain	<60	*	0	0			Lymphoma	<60	0.56	1	16
	60+	*	0	0				60+	2.03	2	13
	All	*						All	1.10		
Leukemia	<60	3.00	2	6			Leukemia	<60	2.57	2	7
	60+	*	0	1				60+	*	0	5
	All	2.67†						All	1.70†		

RR= relative risk

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

FARMERS AND MANAGERS IN GENERAL CROP AND LIVESTOCK FARMS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.26	4	32	26	54	Esophagus	<60	1.56	3	4
	60+	0.71	35	33	99	66		60+	1.00	3	2
	All	0.59						All	1.27		
Stomach	<60	2.08	1	1			Colon Rectum	<60	0.69	8	24
	60+	1.41	19	9				60+	0.43	23	36
	All	1.44						All	0.51		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	0.89	4	3				60+	0.50	3	4
	All	0.77†						All	0.46†		
Larynx	<60	1.56	6	8			Lung	<60	0.57	9	33
	60+	0.33	9	18				60+	0.62	37	40
	All	0.56						All	0.62		
Prostate	<60	1.38	2	3			Testis	<60	4.15	4	2
	60+	1.33	22	11				60+	*	0	2
	All	1.33						All	1.54†		
Kidney	<60	2.08	2	2			Bladder	<60	2.08	4	4
	60+	1.33	4	2				60+	0.53	15	19
	All	1.56						All	0.68		
Melanoma	<60	2.08	1	1			Skin (other)	<60	0.42	3	15
	60+	2.67	4	1				60+	0.75	36	32
	All	2.29						All	0.70		
Brain	<60	*	2	0			Lymphoma	<60	1.17	9	16
	60+	*	0	0				60+	0.51	10	13
	All	*						All	0.78		
Myeloma	<60	*	0	6			Leukemia	<60	0.30	1	7
	60+	1.33	2	1				60+	0.67	5	5
	All	0.40†						All	0.55		

RR= relative risk

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

FILERS, GRINDERS AND POLISHERS, METAL

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.42	2	32	8	54	Esophagus	<60	1.69	1	4
	60+	*	0	33	11	66		60+	6.00	2	2
	All	0.20†						All	3.20		
Stomach	<60	6.75	1	1			Colon Rectum	<60	0.56	2	24
	60+	1.33	2	9				60+	1.00	6	36
	All	1.83						All	0.84		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	0.84	1	8			Lung	<60	1.02	5	33
	60+	0.33	1	18				60+	0.60	4	40
	All	0.48						All	0.78		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	*	0	11				60+	3.00	1	2
	All	*						All	1.57†		
Kidney	<60	*	0	2			Bladder	<60	0.45	2	4
	60+	*	0	2				60+	0.75	3	19
	All	*						All	0.66		
Melanoma	<60	6.75	1	1			Skin (other)	<60	0.45	1	15
	60+	*	0	1				60+	0.75	4	32
	All	3.24†						All	0.66		
Brain	<60	*	0	0			Lymphomas	<60	0.42	1	16
	60+	*	0	0				60+	0.46	1	13
	All	*						All	0.44		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	6.00	1	1				60+	1.20	1	5
	All	0.94†						All	0.53†		

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

FOREMEN, ALL INDUSTRIES

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.44	8	32	31	54	Esophagus	<60	*	0	4
	60+	1.24	23	33	37	66		60+	2.68	3	2
	All	0.84						All	0.88†		
Stomach	<60	*	0	1			Colon Rectum	<60	0.43	6	24
	60+	0.99	5	9				60+	0.74	15	36
	All	0.89†						All	0.62		
Pancreas	<60	1.74	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	1.34	3	4
	All	0.44†						All	1.07†		
Larynx	<60	1.52	7	8			Lung	<60	0.37	7	33
	60+	1.78	18	18				60+	1.11	25	40
	All	1.70						All	0.77		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	2.27	14	11				60+	0.89	1	2
	All	1.78†						All	0.44†		
Kidney	<60	2.61	3	2			Bladder	<60	0.87	2	4
	60+	3.57	4	2				60+	1.03	11	19
	All	3.89						All	1.00		
Melanoma	<60	*	0	1			Skin (other)	<60	0.23	2	15
	60+	1.78	1	1				60+	0.61	11	32
	All	0.88†						All	0.49		
Brain	<60	*	1	0			Lymphoma	<60	0.65	6	16
	60+	*	0	0				60+	0.55	4	13
	All	*						All	0.61		
Myeloma	<60	*	0	6			Leukemia	<60	0.50	2	7
	60+	*	0	1				60+	1.07	3	5
	All	*						All	0.73		

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

FURNACEMEN, SMELTERMEN AND POURERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.24	1	32	7	54	Esophagus	<60	*	0	4
	60+	1.60	4	33	5	66		60+	13.20	2	2
	All	0.77						All	3.27†		
Stomach	<60	*	0	1			Colon Rectum	<60	0.32	1	24
	60+	1.47	1	9				60+	1.10	3	36
	All	1.24†						All	0.69		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	*	0	8			Lung	<60	1.17	5	33
	60+	*	0	18				60+	1.65	5	40
	All	*						All	1.37		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	*	0	11				60+	*	0	2
	All	*						All	*		
Kidney	<60	*	0	2			Bladder	<60	5.79	3	4
	60+	*	0	2				60+	2.08	3	19
	All	*						All	2.95		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	1.24	3	32
	All	*						All	0.70†		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	*	0	13
	All	*						All	*		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	7.92	3	5
	All	*						All	2.49†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN LEATHER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.01	3	32	5	54	Esophagus	<60	*	0	4
	60+	18.00	9	33	1	66		60+	*	0	2
	All	3.77						All	*		
Stomach	<60	*	0	1			Colon Rectum	<60	0.90	2	24
	60+	7.33	1	9				60+	3.67	2	36
	All	4.60†						All	1.47		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	22.00	1	3				60+	16.50	1	4
	All	8.40†						All	7.33†		
Larynx	<60	*	0	8			Lung	<60	0.33	1	33
	60+	22.00	6	18				60+	3.30	2	40
	All	6.90†						All	0.85		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	12.00	2	11				60+	*	0	2
	All	4.96†						All	*		
Kidney	<60	10.80	2	2			Bladder	<60	2.70	1	4
	60+	*	0	2				60+	24.32	7	19
	All	7.63†						All	12.94		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	2.06	1	32
	All	*						All	0.56†		
Brain	<60	*	0	0			Lymphomas	<60	1.35	2	16
	60+	*	0	0				60+	10.15	2	13
	All	*						All	2.46		
Myeloma	<60	1.80	1	6			Leukemia	<60	*	0	7
	60+	132.00	2	1				60+	13.20	1	5
	All	6.29						All	1.50†		

RR= relative risk
 A= number of cases in specified occupation
 B= number of cases in clerical occupations
 C= number of non cancer controls in specified occupation
 D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

LINEMEN AND SERVICEMEN, TELEGRAPH, TELEPHONE AND POWER

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.68	2	32	5	54	Esophagus	<60	*	0	4
	60+	2.33	7	33	6	66		60+	5.50	1	2
	All	1.51						All	1.81†		
Stomach	<60	*	0	1			Colon Rectum	<60	1.35	3	24
	60+	*	0	9				60+	0.61	2	36
	All	*						All	0.91		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	5.40	4	8			Lung	<60	0.33	1	33
	60+	*	0	18				60+	0.28	1	40
	All	1.68†						All	0.30		
Prostate	<60	*	0	3			Testis	<60	5.40	1	2
	60+	1.00	1	11				60+	*	0	2
	All	0.78†						All	2.72†		
Kidney	<60	16.20	3	2			Bladder	<60	2.70	1	4
	60+	*	0	2				60+	1.16	2	19
	All	8.14†						All	1.43		
Melanoma	<60	10.80	1	1			Skin (other)	<60	0.72	1	15
	60+	*	0	1				60+	1.72	5	32
	All	5.43†						All	1.40		
Brain	<60	*	0	0			Lymphoma	<60	2.02	3	16
	60+	*	0	0				60+	0.85	1	13
	All	*						All	1.50		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	2.20	1	5
	All	*						All	0.91†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

LOCOMOTIVE ENGINEERS AND FIREMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.35	4	32	5	54	Esophagus	<60	*	0	4
	60+	2.36	13	33	11	66		60+	*	0	2
	All	1.97						All	*		
Stomach	<60	*	0	1			Colon Rectum	<60	*	0	24
	60+	1.33	2	9				60+	0.83	5	36
	All	1.25†						All	0.60†		
Pancreas	<60	10.80	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	1.50	1	4
	All	1.84†						All	1.30†		
Larynx	<60	1.35	1	8			Lung	<60	0.65	2	33
	60+	1.00	3	18				60+	0.90	6	40
	All	1.07						All	0.82		
Prostate	<60	*	0	3			Testis	<60	5.40	1	2
	60+	1.09	2	11				60+	*	0	2
	All	0.94†						All	2.07†		
Kidney	<60	5.40	1	2			Bladder	<60	2.70	1	4
	60+	*	0	2				60+	1.89	6	19
	All	2.07†						All	1.98		
Melanoma	<60	21.60	2	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	0.94	5	32
	All	9.07†						All	0.74†		
Brain	<60	*	0	0			Lymphoma	<60	1.35	2	16
	60+	*	0	0				60+	2.77	6	13
	All	*						All	2.13		
Myeloma	<60	*	0	6			Leukemia	<60	1.54	1	7
	60+	*	0	1				60+	1.20	1	5
	All	*						All	1.35		

RR= relative risk
 A= number of cases in specified occupation
 B= number of cases in clerical occupations
 C= number of non cancer controls in specified occupation
 D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

MACHINISTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.94	5	32	9	54	Esophagus	<60	1.50	1	4
	60+	1.37	11	33	16	66		60+	4.12	2	2
	All	1.19						All	2.51		
Stomach	<60	6.00	1	1			Colon Rectum	<60	0.25	1	24
	60+	0.46	1	9				60+	0.92	8	36
	All	0.88						All	0.70		
Pancreas	<60	6.00	1	1			Nose	<60	12.00	2	1
	60+	*	0	3				60+	1.03	1	4
	All	1.18†						All	2.82		
Larynx	<60	3.00	4	8			Lung	<60	0.73	4	33
	60+	0.69	3	18				60+	0.82	8	40
	All	1.26						All	0.79		
Prostate	<60	2.00	1	3			Testis	<60	6.00	2	2
	60+	2.25	6	11				60+	*	0	2
	All	2.20						All	2.62†		
Kidney	<60	3.00	1	2			Bladder	<60	1.50	1	4
	60+	4.12	2	2				60+	1.30	6	19
	All	3.59						All	1.33		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	8.25	2	1				60+	0.64	5	32
	All	4.49†						All	0.48†		
Brain	<60	*	1	0			Lymphoma	<60	1.12	3	16
	60+	*	0	0				60+	1.59	5	13
	All	*						All	1.36		
Myeloma	<60	*	0	6			Leukemia	<60	1.71	2	7
	60+	4.12	1	1				60+	4.95	6	5
	All	0.77†						All	3.22		

RR= relative risk
 A= number of cases in specified occupation
 B= number of cases in clerical occupations
 C= number of non cancer controls in specified occupation
 D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.55	11	32	34	54	Esophagus	<60	0.79	2	4
	60+	1.30	15	33	23	66		60+	4.30	3	2
	All	0.85						All	1.71		
Stomach	<60	*	0	1			Colon Rectum	<60	0.60	9	24
	60+	1.59	5	9				60+	1.67	21	36
	All	1.37†						All	1.14		
Pancreas	<60	1.59	1	1			Nose	<60	1.59	1	1
	60+	0.96	1	3				60+	0.72	1	4
	All	1.16						All	0.96		
Larynx	<60	0.40	2	8			Lung	<60	0.77	16	33
	60+	1.75	11	13				60+	1.22	17	40
	All	1.22						All	0.97		
Prostate	<60	1.59	3	3			Testis	<60	1.59	2	2
	60+	3.13	12	11				60+	*	0	2
	All	2.69						All	0.96†		
Kidney	<60	1.59	2	2			Bladder	<60	0.79	2	4
	60+	*	0	2				60+	1.21	8	19
	All	0.96†						All	1.11		
Melanoma	<60	1.59	1	1			Skin (other)	<60	0.74	7	15
	60+	5.74	2	1				60+	0.63	7	32
	All	3.34						All	0.68		
Brain	<60	*	2	0			Lymphomas	<60	0.70	7	16
	60+	*	0	0				60+	1.10	5	13
	All	*						All	0.84		
Myeloma	<60	*	0	6			Leukemia	<60	0.68	3	7
	60+	2.87	1	1				60+	0.57	1	5
	All	0.26†						All	0.65		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

LABORERS IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.28	1	32	6	54	Esophagus	<60	*	0	4
	60+	2.80	7	33	5	66		60+	*	0	2
	All	1.35						All	*		
Stomach	<60	9.00	1	1			Colon Rectum	<60	*	0	24
	60+	1.47	1	9				60+	1.10	3	36
	All	2.45						All	0.56†		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	*	0	8			Lung	<60	0.54	2	33
	60+	2.93	4	18				60+	2.31	7	40
	All	1.81†						All	1.36		
Prostate	<60	3.00	1	3			Testis	<60	*	0	2
	60+	1.20	1	11				60+	*	0	2
	All	1.69						All	*		
Kidney	<60	*	0	2			Bladder	<60	*	0	
	60+	*	0	2				60+	*	0	
	All	*						All	*		
Melanoma	<60	9.00	1	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	*	0	
	All	5.05†						All	*		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	1.02	1	13
	All	*						All	0.37†		
Myeloma	<60	*	0	6			Leukemia	<60	1.29	1	
	60+	*	0	1				60+	*	0	
	All	*						All	0.86†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations .

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

MECHANICS AND REPAIRMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.77	22	32	48	54	Esophagus	<60	0.28	1	4
	60+	1.06	25	33	47	66		60+	2.11	3	2
	All	0.91						All	0.84		
Stomach	<60	1.12	1	1			Colon Rectum	<60	0.56	12	24
	60+	1.56	10	9				60+	0.43	11	36
	All	1.51						All	0.49		
Pancreas	<60	3.38	3	1			Nose	<60	2.25	2	1
	60+	0.94	2	3				60+	2.11	6	4
	All	1.59						All	2.13		
Larynx	<60	1.12	8	8			Lung	<60	0.89	26	33
	60+	1.09	14	18				60+	1.30	37	40
	All	1.10						All	1.10		
Prostate	<60	1.50	4	3			Testis	<60	1.12	2	2
	60+	1.53	12	11				60+	0.70	1	2
	All	1.52						All	0.93		
Kidney	<60	*	0	2			Bladder	<60	1.97	7	4
	60+	0.70	1	2				60+	1.55	21	19
	All	0.32†						All	1.63		
Melanoma	<60	4.50	4	1			Skin (other)	<60	0.15	2	15
	60+	*	0	1				60+	0.88	20	32
	All	2.33†						All	0.62		
Brain	<60	*	0	0			Lymphoma	<60	0.63	9	16
	60+	*	0	0				60+	0.97	9	13
	All	*						All	0.77		
Myeloma	<60	0.37	2	6			Leukemia	<60	0.16	1	7
	60+	*	0	1				60+	1.40	5	5
	All	0.33†						All	0.64		

RR= relative risk
 A= number of cases in specified occupation
 B= number of cases in clerical occupations
 C= number of non cancer controls in specified occupation
 D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.63	3	32	8	54	Esophagus	<60	*	0	4
	60+	0.80	4	33	10	66		60+	6.60	2	2
	All	0.72						All	2.22†		
Stomach	<60	*	0	1			Colon Rectum	<60	1.97	7	24
	60+	1.47	2	9				60+	0.37	2	36
	All	1.32†						All	1.00		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	2.20	1	3				60+	1.65	1	4
	All	1.66†						All	1.32†		
Larynx	<60	1.69	2	8			Lung	<60	0.61	3	33
	60+	0.37	1	18				60+	0.66	4	40
	All	0.77						All	0.64		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	1.20	2	11				60+	*	0	2
	All	0.95†						All	*		
Kidney	<60	3.38	1	2			Bladder	<60	3.38	2	4
	60+	3.30	1	2				60+	1.74	5	19
	All	3.34						All	2.02		
Melanoma	<60	6.75	1	1			Skin (other)	<60	0.45	1	15
	60+	*	0	1				60+	0.21	1	32
	All	3.35†						All	0.28		
Brain	<60	*	0	0			Lymphomas	<60	0.84	2	16
	60+	*	0	0				60+	0.51	1	13
	All	*						All	0.69		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	6.60	1	1				60+	2.64	2	5
	All	0.96†						All	1.11†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	6	32	12	54	Esophagus	<60	1.12	1	4
	60+	3.00	12	33	8	66		60+	*	0	2
	All	1.67						All	0.87†		
Stomach	<60	4.50	1	1			Colon Rectum	<60	0.56	3	24
	60+	2.75	3	9				60+	2.29	10	36
	All	2.97						All	1.38		
Pancreas	<60	9.00	2	1			Nose	<60	*	0	1
	60+	2.75	1	3				60+	4.12	2	4
	All	4.62						All	2.97†		
Larynx	<60	*	0	8			Lung	<60	1.50	11	33
	60+	1.38	3	18				60+	2.48	12	40
	All	0.78†						All	1.90		
Prostate	<60	*	0	3			Testis	<60	2.25	1	2
	60+	3.75	5	11				60+	*	0	2
	All	2.62†						All	1.39†		
Kidney	<60	2.25	1	2			Bladder	<60	1.12	1	4
	60+	*	0	2				60+	1.30	3	19
	All	1.39†						All	1.25		
Melanoma	<60	*	0	1			Skin (other)	<60	0.30	1	15
	60+	*	0	1				60+	1.03	4	32
	All	*						All	0.71		
Brain	<60	*	0	0			Lymphomas	<60	1.12	4	16
	60+	*	0	0				60+	2.54	4	13
	All	*						All	1.59		
Myeloma	<60	*	0	6			Leukemia	<60	1.29	2	7
	60+	16.50	2	1				60+	4.95	3	5
	All	1.53†						All	2.42		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

LABORERS IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.69	6	32	6	54	Esophagus	<60	2.25	1	4
	60+	1.46	8	33	11	66		60+	9.00	3	2
	All	1.55						All	4.82		
Stomach	<60	*	0	1			Colon Rectum	<60	1.12	3	24
	60+	4.67	7	9				60+	1.17	7	36
	All	4.29†						All	1.15		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	1.12	1	8			Lung	<60	0.54	2	33
	60+	0.67	2	18				60+	1.95	13	40
	All	0.78						All	1.43		
Prostate	<60	3.00	1	3			Testis	<60	4.50	1	2
	60+	*	0	11				60+	*	0	2
	All	0.47†						All	1.88†		
Kidney	<60	*	0	2			Bladder	<60	2.25	1	4
	60+	*	0	2				60+	0.32	1	19
	All	*						All	0.56		
Melanoma	<60	*	0	1			Skin (other)	<60	1.20	2	15
	60+	*	0	1				60+	0.38	2	32
	All	*						All	0.58		
Brain	<60	*	0	0			Lymphomas	<60	0.56	1	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.26†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	1.20	1	5
	All	*						All	0.61†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MILLWRIGHTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	1	32	2	54	Esophagus	<60	6.75	1	4
	60+	0.44	2	33	9	66		60+	*	0	2
	All	0.54						All	2.62†		
Stomach	<60	27.00	1	1			Colon Rectum	<60	1.12	1	24
	60+	2.44	3	9				60+	*	0	36
	All	3.30						All	0.18†		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	*	0	8			Lung	<60	2.45	3	33
	60+	1.22	3	18				60+	0.55	3	40
	All	1.08†						All	0.93		
Prostate	<60	*	0	3			Testis	<60	13.50	1	2
	60+	0.67	1	11				60+	*	0	2
	All	0.62†						All	3.35†		
Kidney	<60	*	0	2			Bladder	<60	6.75	1	4
	60+	*	0	2				60+	1.54	4	19
	All	*						All	1.85		
Melanoma	<60	*	0	1			Skin (other)	<60	1.80	1	15
	60+	7.33	1	1				60+	0.69	3	32
	All	4.94†						All	0.82		
Brain	<60	*	1	0			Lymphoma	<60	1.69	1	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.44†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

MINE OPERATIVES AND LABORERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	< 60	0.37	2	32	9	54	Esophagus	< 60	1.50	1	4
	60+	1.73	13	33	15	66		60+	4.40	2	2
	All	1.15						All	2.59		
Stomach	< 60	*	0	1			Colon Rectum	< 60	0.25	1	24
	60+	1.96	4	9				60+	0.86	7	36
	All	1.80†						All	0.65		
Pancreas	< 60	*	0	1			Nose	< 60	6.00	1	1
	60+	1.47	1	3				60+	1.10	1	4
	All	1.16†						All	1.91		
Larynx	< 60	*	0	8			Lung	< 60	0.54	3	33
	60+	0.49	2	18				60+	0.88	8	40
	All	0.37†						All	0.75		
Prostate	< 60	*	0	3			Testis	< 60	*	0	2
	60+	1.20	3	11				60+	2.20	1	2
	All	0.99†						All	1.24†		
Kidney	< 60	*	0	2			Bladder	< 60	1.50	1	4
	60+	*	0	2				60+	1.62	7	19
	All	*						All	1.60		
Melanoma	< 60	6.00	1	1			Skin (other)	< 60	1.60	4	15
	60+	4.40	1	1				60+	0.55	4	32
	All	5.10						All	0.83		
Brain	< 60	*	0	0			Lymphomas	< 60	0.75	2	16
	60+	*	0	0				60+	0.34	1	13
	All	*						All	0.54		
Myeloma	< 60	*	0	6			Leukemia	< 60	0.86	1	7
	60+	8.80	2	1				60+	0.88	1	5
	All	1.53†						All	0.87		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

MOLDERS, METAL

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.69	2	32	2	54	Esophagus	<60	*	0	4
	60+	0.62	4	33	13	66		60+	7.62	3	2
	All	0.81						All	4.16†		
Stomach	<60	27.00	1	1			Colon Rectum	<60	3.37	3	24
	60+	2.26	4	9				60+	0.14	1	36
	All	2.89						All	0.54		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	1.27	1	4
	All	*						All	1.20†		
Larynx	<60	*	0	8			Lung	<60	1.64	2	33
	60+	0.56	2	18				60+	1.52	12	40
	All	0.53†						All	1.51		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	0.92	2	11				60+	*	0	2
	All	0.87†						All	*		
Kidney	<60	*	0	2			Bladder	<60	*	0	4
	60+	5.08	2	2				60+	0.53	2	19
	All	3.61†						All	0.52†		
Melanoma	<60	*	0	1			Skin (other)	<60	1.80	1	15
	60+	*	0	1				60+	*	0	32
	All	*						All	0.15†		
Brain	<60	*	0	0			Lymphoma	<60	*	0	16
	60+	*	0	0				60+	0.39	1	13
	All	*						All	0.33†		
Myeloma	<60	*	0	6			Leukemia	<60	3.86	1	7
	60+	*	0	1				60+	1.02	1	5
	All	*						All	1.67		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

PAINTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.65	5	32	13	54	Esophagus	<60	1.04	1	4
	60+	1.33	16	33	24	66		60+	6.88	5	2
	All	1.05						All	3.23		
Stomach	<60	16.62	4	1			Colon Rectum	<60	0.69	4	24
	60+	0.61	2	9				60+	0.84	11	36
	All	1.86						All	0.79		
Pancreas	<60	4.15	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	0.69	1	4
	All	0.80+						All	0.59+		
Larynx	<60	2.60	5	8			Lung	<60	1.76	14	33
	60+	0.76	5	18				60+	1.03	15	40
	All	1.22						All	1.31		
Prostate	<60	1.38	1	3			Testis	<60	*	0	2
	60+	1.25	5	11				60+	1.38	1	2
	All	1.27						All	0.80+		
Kidney	<60	2.08	1	2			Bladder	<60	1.04	1	4
	60+	1.38	1	2				60+	1.59	11	19
	All	1.67						All	1.51		
Melanoma	<60	4.15	1	1			Skin (other)	<60	0.83	3	15
	60+	*	0	1				60+	0.52	6	32
	All	1.79+						All	0.60		
Brain	<60	*	0	0			Lymphoma	<60	0.52	2	16
	60+	*	0	0				60+	0.21	1	13
	All	*						All	0.35		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	3.38	8	32	4	54	Esophagus	<60	*	0	4
	60+	6.00	6	33	2	66		60+	*	0	2
	All	4.14						All	*		
Stomach	<60	13.50	1	1			Colon Rectum	<60	1.12	2	24
	60+	3.67	1	9				60+	4.58	5	36
	All	5.36						All	2.49		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	3.38	2	8			Lung	<60	1.23	3	33
	60+	5.50	3	18				60+	1.65	2	40
	All	4.37						All	1.37		
Prostate	<60	4.50	1	3			Testis	<60	*	0	2
	60+	*	0	11				60+	*	0	2
	All	1.72†						All	*		
Kidney	<60	*	0	2			Bladder	<60	3.38	1	4
	60+	16.50	1	2				60+	*	0	19
	All	5.28†						All	1.11†		
Melanoma	<60	*	0	1			Skin (other)	<60	0.90	1	15
	60+	*	0	1				60+	3.09	3	32
	All	*						All	1.95		
Brain	<60	*	1	0			Lymphomas	<60	3.38	4	16
	60+	*	0	0				60+	*	0	13
	All	*						All	2.45†		
Myeloma	<60	2.25	1	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	13.20	2	5
	All	2.09†						All	3.22†		

RR= relative risk

A= number of cases in specified occupation

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C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

PLUMBERS AND PIPE FITTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.56	2	32	6	54	Esophagus	<60	*	0	4
	60+	1.50	9	33	12	66		60+	*	0	2
	All	1.13						All	*		
Stomach	<60	9.00	1	1			Colon Rectum	<60	*	0	24
	60+	1.83	3	9				60+	0.92	6	36
	All	2.34						All	0.64†		
Pancreas	<60	9.00	1	1			Nose	<60	18.00	2	1
	60+	*	0	3				60+	2.75	2	4
	All	1.64†						All	5.09		
Larynx	<60	3.37	3	8			Lung	<60	1.36	5	33
	60+	0.61	2	18				60+	1.10	8	40
	All	1.23						All	1.19		
Prostate	<60	*	0	3			Testis	<60	4.50	1	2
	60+	0.50	1	11				60+	*	0	2
	All	0.43†						All	1.81†		
Kidney	<60	9.00	2	2			Bladder	<60	2.25	1	4
	60+	*	0	2				60+	1.74	6	19
	All	3.74†						All	1.80		
Melanoma	<60	*	0	1			Skin (other)	<60	1.20	2	15
	60+	5.50	1	1				60+	0.52	3	32
	All	3.18†						All	0.67		
Brain	<60	*	1	0			Lymphoma	<60	1.12	2	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.49†		
Leukemia	<60	*	0	6			Leukemia	<60	1.29	1	7
	60+	*	0	1				60+	1.10	1	5
	All	*						All	1.19		

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

PRINT WORKERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	2.25	4	32	3	54	Esophagus	<60	*	0	4
	60+	2.40	6	33	5	66		60+	6.60	1	2
	All	2.33						All	2.60†		
Stomach	<60	*	0	1			Colon Rectum	<60	2.25	3	24
	60+	1.47	1	9				60+	0.37	1	36
	All	1.35†						All	0.99		
Pancreas	<60	36.00	2	1			Nose	<60	18.00	1	1
	60+	*	0	3				60+	*	0	4
	All	7.63†						All	2.90†		
Larynx	<60	2.25	1	8			Lung	<60	1.09	2	33
	60+	0.73	1	18				60+	0.66	2	40
	All	1.11						All	0.82		
Prostate	<60	*	0	3			Testis	<60	9.00	1	2
	60+	*	0	11				60+	*	0	2
	All	*						All	3.93†		
Kidney	<60	*	0	2			Bladder	<60	4.50	1	4
	60+	6.60	1	2				60+	*	0	19
	All	3.70†						All	0.61†		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	13.20	1	1				60+	0.41	1	32
	All	7.25†						All	0.31†		
Brain	<60	*	0	0			Lymphoma	<60	1.12	1	16
	60+	*	0	0				60+	1.02	1	13
	All	*						All	1.07		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

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A= number of cases in specified occupation

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D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

SHOEMAKERS AND REPAIRERS, EXCEPT FACTORY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.42	1	32	4	54	Esophagus	<60	*	0	4
	60+	14.00	7	33	1	66		60+	33.00	1	2
	All	3.00						All	3.47†		
Stomach	<60	*	0	1			Colon Rectum	<60	*	0	24
	60+	22.00	3	9				60+	3.67	2	36
	All	15.42†						All	0.90†		
Pancreas	<60	*	0	1			Nose	<60	13.50	1	1
	60+	*	0	3				60+	*	0	4
	All	*						All	5.87†		
Larynx	<60	*	0	8			Lung	<60	*	0	33
	60+	3.67	1	18				60+	4.95	3	40
	All	1.20†						All	1.03†		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	6.00	1	11				60+	*	0	2
	All	2.70†						All	*		
Kidney	<60	*	0	2			Bladder	<60	*	0	4
	60+	*	0	2				60+	3.47	1	19
	All	*						All	1.77†		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	*	0	32
	All	*						All	*		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	*	0	13
	All	*						All	*		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	*	0	5
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

STATIONARY ENGINEERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	32	7	54	Esophagus	<60	*	0	4
	60+	0.67	3	33	9	66		60+	3.67	1	2
	All	0.35†						All	1.26†		
Stomach	<60	*	0	1			Colon Rectum	<60	0.96	3	24
	60+	0.81	1	9				60+	0.61	3	36
	All	0.74†						All	0.75		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	1.93	2	8			Lung	<60	0.23	1	33
	60+	0.41	1	18				60+	0.73	4	40
	All	0.86						All	0.51		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	1.33	2	11				60+	*	0	2
	All	1.06†						All	*		
Kidney	<60	3.86	1	2			Bladder	<60	3.86	2	4
	60+	3.67	1	2				60+	0.39	1	19
	All	3.76						All	0.97		
Melanoma	<60	*	0	1			Skin (other)	<60	1.03	2	15
	60+	7.33	1	1				60+	0.46	2	32
	All	3.73†						All	0.63		
Brain	<60	*	0	0			Lymphomas	<60	*	0	16
	60+	*	0	0				60+	0.56	1	13
	All	*						All	0.26†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	2.93	2	5
	All	*						All	1.25†		

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A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

STATIONARY FIREMEN

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	2	32	4	54	Esophagus	<60	*	0	4
	60+	0.89	4	33	9	66		60+	*	0	2
	All	0.87						All	*		
Stomach	<60	13.50	1	1			Colon Rectum	<60	0.56	1	24
	60+	1.63	2	9				60+	0.20	1	36
	All	2.37						All	0.30		
Pancreas	<60	13.50	1	1			Nose	<60	13.50	1	1
	60+	7.33	3	3				60+	1.83	1	4
	All	8.32						All	3.39		
Larynx	<60	3.37	2	8			Lung	<60	1.23	3	33
	60+	0.81	2	18				60+	1.28	7	40
	All	1.34						All	1.26		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	1.33	2	11				60+	*	0	2
	All	1.15†						All	*		
Kidney	<60	*	0	2			Bladder	<60	*	0	4
	60+	*	0	2				60+	0.39	1	19
	All	*						All	0.35†		
Melanoma	<60	*	0	1			Skin (other)	<60	*	0	15
	60+	*	0	1				60+	0.69	3	32
	All	*						All	0.55†		
Brain	<60	*	0	0			Lymphomas	<60	1.69	2	16
	60+	*	1	0				60+	0.56	1	13
	All	*						All	1.03		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	1.47	1	5
	All	*						All	0.82†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	2	32	4	54	Esophagus	<60	*	0	4
	60+	4.00	6	33	3	66		60+	*	0	2
	All	2.10						All	*		
Stomach	<60	13.50	1	1			Colon Rectum	<60	2.25	4	24
	60+	4.89	2	9				60+	1.22	2	36
	All	6.03						All	1.74		
Pancreas	<60	13.50	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	5.50	1	4
	All	4.41†						All	3.99†		
Larynx	<60	3.38	2	8			Lung	<60	0.82	2	33
	60+	2.44	2	18				60+	2.20	4	40
	All	2.81						All	1.42		
Prostate	<60	*	0	3			Testis	<60	*	0	2
	60+	4.00	2	11				60+	*	0	2
	All	2.82†						All	*		
Kidney	<60	*	0	2			Bladder	<60	6.75	2	4
	60+	*	0	2				60+	*	0	19
	All	*						All	1.67†		
Melanoma	<60	*	0	1			Skin (other)	<60	1.80	2	15
	60+	*	0	1				60+	0.69	1	32
	All	*						All	1.16		
Brain	<60	*	0	0			Lymphomas	<60	0.84	1	16
	60+	*	0	0				60+	*	0	13
	All	*						All	0.56†		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	4.40	1	5
	All	*						All	1.37†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

TOOLMAKERS, DIEMAKERS AND SETTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.21	1	32	8	54	Esophagus	<60	1.69	1	4
	60+	1.43	5	33	7	66		60+	9.43	2	2
	All	0.74						All	3.87		
Stomach	<60	13.50	2	1			Colon Rectum	<60	0.56	2	24
	60+	*	0	9				60+	0.52	2	36
	All	1.72†						All	0.54		
Pancreas	<60	*	0	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	*						All	*		
Larynx	<60	*	0	8			Lung	<60	0.61	3	33
	60+	3.14	6	18				60+	0.71	3	40
	All	1.98†						All	0.66		
Prostate	<60	*	0	3			Testis	<60	6.75	2	2
	60+	1.71	2	11				60+	*	0	2
	All	1.26†						All	3.74†		
Kidney	<60	3.37	1	2			Bladder	<60	1.69	1	
	60+	*	0	2				60+	0.50	1	
	All	1.91†						All	0.76		
Melanoma	<60	*	0	1			Skin (other)	<60	0.45	1	15
	60+	*	0	1				60+	0.88	3	2
	All	*						All	0.72		
Brain	<60	*	0	0			Lymphomas	<60	0.42	1	16
	60+	*	0	0				60+	0.73	1	13
	All	*						All	0.54		
Myeloma	<60	1.12	1	6			Leukemia	<60	*	0	
	60+	18.86	2	1				60+	*	0	
	All	3.17						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

B. RELATIVE RISKS AND SAMPLE SIZES FOR MEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

WELDERS AND FLAME CUTTERS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.61	4	32	11	54	Esophagus	<60	1.23	1	4
	60+	1.20	3	33	5	66		60+	*	0	2
	All	0.79						All	1.02†		
Stomach	<60	4.91	1	1			Colon Rectum	<60	0.82	4	24
	60+	1.47	1	9				60+	0.37	1	36
	All	2.10						All	0.65		
Pancreas	<60	4.91	1	1			Nose	<60	*	0	1
	60+	*	0	3				60+	*	0	4
	All	2.02†						All	*		
Larynx	<60	1.84	3	8			Lung	<60	1.04	7	33
	60+	*	0	18				60+	0.66	2	40
	All	0.95†						All	0.92		
Prostate	<60	*	0	3			Testis	<60	2.45	1	2
	60+	1.20	1	11				60+	*	0	2
	All	0.72†						All	1.68†		
Kidney	<60	*	0	2			Bladder	<60	1.23	1	4
	60+	6.60	1	2				60+	*	0	19
	All	2.02†						All	0.43†		
Melanoma	<60	*	0	1			Skin (other)	<60	1.31	4	15
	60+	*	0	1				60+	0.41	1	32
	All	*						All	0.89		
Brain	<60	*	0	0			Lymphomas	<60	0.92	3	16
	60+	*	0	0				60+	2.03	2	13
	All	*						All	1.20		
Myeloma	<60	*	0	6			Leukemia	<60	*	0	7
	60+	*	0	1				60+	2.64	1	5
	All	*						All	0.59†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS

OPERATIVES IN APPAREL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	4.22	5	45	15	570	Esophagus	<60	*	0	3
	60+	3.49	2	14	5	122		60+	*	0	1
	All	3.98						All	*		
Stomach	<60	6.91	2	11			Colon Rectum	<60	0.53	1	72
	60+	*	0	10				60+	0.75	2	65
	All	2.92†						All	0.66		
Pancreas	<60	9.50	1	4			Nose	<60	*	0	4
	60+	*	0	3				60+	12.20	1	2
	All	4.50†						All	5.12†		
Larynx	<60	30.40	4	5			Lung	<60	*	0	18
	60+	*	0	3				60+	*	0	7
	All	16.70†						All	*		
Breast	<60	1.28	13	386			Cervix Uteri	<60	3.82	25	249
	60+	1.49	11	180				60+	6.33	14	54
	All	1.37						All	4.41		
Corpus Uteri	<60	5.07	4	30			Ovary	<60	1.61	3	71
	60+	1.38	4	71				60+	*	0	17
	All	2.18						All	1.18†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	2.71	2	18
	All	*						All	2.44†		
Melanoma	<60	3.17	1	12			Skin (other)	<60	2.62	2	29
	60+	*	0	4				60+	*	0	30
	All	2.10†						All	1.01†		
Brain	<60	*	0	3			Lymphomas	<60	3.04	6	75
	60+	*	0	0				60+	0.94	1	26
	All	*						All	2.32		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	1.52	1	16
	All	*						All	1.22†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN CHEMICAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	4	570	Esophagus	<60	*	0	3
	60+	*	0	14	3	122		60+	*	0	1
	All	*						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	1.98	1	72
	60+	*	0	10				60+	*	0	65
	All	*						All	0.48†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	28.50	1	5			Lung	<60	*	0	18
	60+	*	0	3				60+	*	0	7
	All	9.76†						All	*		
Breast	<60	1.85	5	386			Cervix Uteri	<60	3.43	6	249
	60+	0.45	2	180				60+	*	0	54
	All	0.99						All	1.97†		
Corpus Uteri	<60	*	0	30			Ovary	<60	2.01	1	71
	60+	*	0	71				60+	*	0	17
	All	*						All	1.10†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	4.91	1	29
	60+	*	0	4				60+	2.71	2	30
	All	*						All	3.18		
Brain	<60	*	0	3			Lymphomas	<60	*	0	75
	60+	*	0	0				60+	*	0	26
	All	*						All	*		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

COOKS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.97	3	45	39	570	Esophagus	<60	*	0	3
	60+	0.79	2	14	22	122		60+	5.54	1	1
	All	0.90						All	2.26†		
Stomach	<60	1.33	1	11			Colon Rectum	<60	0.61	3	72
	60+	0.56	1	10				60+	1.02	12	65
	All	0.80						All	0.90		
Pancreas	<60	*	0	4			Nose	<60	3.65	1	4
	60+	1.85	1	3				60+	*	0	2
	All	1.18†						All	1.70†		
Larynx	<60	*	0	5			Lung	<60	1.62	2	18
	60+	1.85	1	3				60+	3.17	4	7
	All	1.08†						All	2.27		
Breast	<60	0.87	23	386			Cervix Uteri	<60	2.29	39	249
	60+	0.89	29	180				60+	2.57	25	54
	All	0.88						All	2.33		
Corpus Uteri	<60	0.49	1	30			Ovary	<60	0.41	2	71
	60+	0.94	12	71				60+	*	0	17
	All	0.87						All	0.26†		
Kidney	<60	*	0	14			Bladder	<60	4.87	1	3
	60+	2.77	3	6				60+	2.16	7	18
	All	1.37†						All	2.33		
Melanoma	<60	1.22	1	12			Skin (other)	<60	1.51	3	29
	60+	*	0	4				60+	1.11	6	30
	All	0.67†						All	1.22		
Brain	<60	4.87	1	3			Lymphomas	<60	0.20	1	75
	60+	*	0	0				60+	0.85	4	26
	All	4.87†						All	0.51		
Myeloma	<60	*	0	5			Leukemia	<60	2.44	1	6
	60+	5.54	3	3				60+	0.69	2	16
	All	2.96†						All	0.93		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN FOOD INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.22	1	45	58	570	Esophagus	<60	3.28	1	3
	60+	*	0	14	19	122		60+	*	0	1
	All	0.15†						All	2.23†		
Stomach	<60	1.79	2	11			Colon Rectum	<60	0.96	7	72
	60+	*	0	10				60+	1.38	14	65
	All	0.76†						All	1.20		
Pancreas	<60	*	0	4			Nose	<60	2.46	1	4
	60+	*	0	3				60+	*	0	2
	All	*						All	1.43†		
Larynx	<60	1.97	1	5			Lung	<60	1.09	2	18
	60+	*	0	3				60+	0.92	1	7
	All	0.05†						All	1.03		
Breast	60	0.82	32	386			Cervix Uteri	<60	1.30	33	249
	60+	0.64	18	180				60+	1.19	10	54
	All	0.74						All	1.27		
Corpus Uteri	<60	0.12	4	30			Ovary	<60	0.83	6	71
	60+	0.90	10	71				60+	0.38	1	17
	All	1.00						All	0.71		
Kidney	<60	*	0	14			Bladder	<60	9.83	3	3
	60+	*	0	6				60+	0.36	1	18
	All	*						All	1.34		
Melanoma	<60	2.46	3	12			Skin (other)	<60	0.34	1	29
	60+	1.60	1	4				60+	1.93	9	30
	All	2.18						All	1.29		
Brain	<60	*	0	3			Lymphomas	<60	0.26	2	75
	60+	*	0	0				60+	0.74	3	26
	All	*						All	0.43		
Myeloma	<60	1.97	1	5			Leukemia	<60	*	0	6
	60+	2.14	1	3				60+	*	0	16
	All	2.04						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

LABORERS IN FOOD INDUSTRY

CANCER DIAGNOSIS							CANCER DIAGNOSIS				
DIAGNOSIS	AGE	RR	A	B	C	D	DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	2	570	Esophagus	<60	*	0	3
	60+	*	0	14	2	122		60+	*	0	1
	All	*						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	3.96	1	72
	60+	*	0	10				60+	*	0	65
	All	*						All	0.76†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	*	0	7
	All	*						All	*		
Breast	<60	1.48	2	386			Cervix Uteri	<60	6.87	6	249
	60+	0.34	1	180				60+	*	0	54
	All	0.70						All	3.45†		
Corpus Uteri	<60	*	0	30			Ovary	<60	*	0	71
	60+	*	0	71				60+	*	0	17
	All	*						All	*		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	*	0	30
	All	*						All	*		
Brain	<60	*	0	3			Lymphomas	<60	*	0	75
	60+	*	0	0				60+	*	0	26
	All	*						All	*		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	3.81	1	16
	All	*						All	3.50†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

HAIRDRESSERS AND COSMETOLOGISTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.49	1	45	26	570	Esophagus	<60	*	0	3
	60+	*	0	14	1	122		60+	*	0	1
	All	0.46†						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	0.61	2	72
	60+	12.20	1	10				60+	7.51	4	65
	All	1.79†						All	1.61		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	61.00	1	2
	All	*						All	5.70†		
Larynx	<60	4.38	1	5			Lung	<60	1.22	1	18
	60+	*	0	3				60+	*	0	7
	All	3.81†						All	1.13†		
Breast	<60	0.80	14	386			Cervix Uteri	<60	1.06	12	249
	60+	4.07	6	180				60+	2.26	1	54
	All	1.06						All	1.10		
Corpus Uteri	<60	2.92	4	30			Ovary	<60	2.47	8	71
	60+	3.44	2	71				60+	14.35	2	17
	All	3.00						All	2.98		
Kidney	<60	1.57	1	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	1.44†						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	4.07	1	30
	All	*						All	0.65†		
Brain	<60	*	0	3			Lymphomas	<60	0.29	1	75
	60+	*	0	0				60+	18.77	4	26
	All	*						All	1.42		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	81.33	2	3				60+	7.62	1	16
	All	9.41†						All	2.57†		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS							CANCER DIAGNOSIS				
DIAGNOSIS	AGE	RR	A	B	C	D	DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.79	3	45	48	570	Esophagus	<60	*	0	3
	60+	1.87	3	14	14	122		60+	17.43	2	1
	All	1.10						All	5.04†		
Stomach	<60	*	0	11			Colon Rectum	<60	0.82	5	72
	60+	0.87	1	10				60+	0.54	4	65
	All	0.48†						All	0.67		
Pancreas	<60	*	0	4			Nose	<60	2.97	1	4
	60+	2.91	1	3				60+	*	0	2
	All	1.44†						All	1.80†		
Larynx	<60	*	0	5			Lung	<60	1.32	2	18
	60+	2.90	1	3				60+	1.24	1	7
	All	1.28†						All	1.29		
Breast	<60	0.46	15	386			Cervix Uteri	<60	1.19	25	249
	60+	0.82	17	180				60+	4.20	26	54
	All	0.60						All	1.85		
Corpus Uteri	<60	1.19	3	30			Ovary	<60	0.50	3	71
	60+	1.72	14	71				60+	0.51	1	17
	All	1.59						All	0.50		
Kidney	<60	*	0	14			Bladder	<60	3.96	1	3
	60+	*	0	6				60+	1.94	4	18
	All	*						All	2.17		
Melanoma	<60	0.99	1	12			Skin (other)	<60	0.41	1	29
	60+	*	0	4				60+	1.16	4	30
	All	0.69†						All	0.85		
Brain	<60	*	0	3			Lymphomas	<60	0.32	2	75
	60+	*	0	0				60+	1.68	5	26
	All	*						All	0.75		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	2.90	1	3				60+	*	0	16
	All	1.28†						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN LEATHER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	12	570	Esophagus	<60	*	0	3
	60+	2.90	2	14	6	122		60+	*	0	1
	All	1.20†						All	*		
Stomach	<60	4.32	1	11			Colon Rectum	<60	1.32	2	72
	60+	*	0	10				60+	*	0	65
	All	1.42†						All	0.43†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	6.78	1	3				60+	10.17	1	2
	All	4.09†						All	5.06†		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	2.90	1	7
	All	*						All	1.35†		
Breast	<60	1.85	15	386			Cervix Uteri	<60	2.48	13	249
	60+	0.56	5	180				60+	1.13	3	54
	All	1.19						All	2.03		
Corpus Uteri	<60	1.58	1	30			Ovary	<60	0.67	1	71
	60+	0.57	2	71				60+	1.20	1	17
	All	0.73						All	0.86		
Kidney	<60	*	0	14			Bladder	<60	15.83	1	3
	60+	*	0	6				60+	3.39	3	18
	All	*						All	4.27		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	1.36	2	30
	All	*						All	0.95†		
Brain	<60	*	0	3			Lymphomas	<60	3.80	6	75
	60+	*	0	0				60+	1.56	2	26
	All	*						All	2.82		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN LUMBER AND WOOD INDUSTRY, EXCEPT FURNITURE

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.41	1	45	9	570	Esophagus	<60	*	0	3
	60+	*	0	14	1	122		60+	*	0	1
	All	1.21†						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	*	0	72
	60+	*	0	10				60+	*	0	65
	All	*						All	*		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	17.43	1	7
	All	*						All	2.98†		
Breast	<60	0.49	3	386			Cervix Uteri	<60	3.05	12	249
	60+	0.68	1	180				60+	2.26	1	54
	All	0.53						All	2.97		
Corpus Uteri	<60	*	0	30			Ovary	<60	*	0	71
	60+	*	0	71				60+	*	0	17
	All	*						All	*		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	20.33	1	6				60+	*	0	18
	All	3.78†						All	*		
Melanoma	<60	15.83	3	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	*	0	30
	All	13.22†						All	*		
Brain	<60	21.11	1	3			Lymphomas	<60	0.84	1	75
	60+	*	0	0				60+	*	0	26
	All	21.11†						All	0.72†		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.42	4	45	121	570	Esophagus	<60	*	0	3
	60+	1.45	4	14	24	122		60+	5.08	1	1
	All	0.65						All	1.21†		
Stomach	<60	0.86	2	11			Colon Rectum	<60	0.78	12	72
	60+	0.51	1	10				60+	0.47	6	65
	All	0.70						All	0.64		
Pancreas	<60	*	0	4			Nose	<60	1.18	1	4
	60+	1.69	1	3				60+	*	0	2
	All	0.70†						All	0.80†		
Larynx	<60	2.83	3	5			Lung	<60	1.05	4	18
	60+	*	0	3				60+	*	0	7
	All	1.80†						All	0.77†		
Breast	<60	0.71	53	386			Cervix Uteri	<60	1.72	91	249
	60+	0.34	12	180				60+	1.41	15	54
	All	0.60						All	1.67		
Corpus Uteri	<60	0.94	6	30			Ovary	<60	0.73	11	71
	60+	0.29	4	71				60+	0.30	1	17
	All	0.49						All	0.55		
Kidney	<60	*	0	14			Bladder	<60	3.14	2	3
	60+	*	0	6				60+	0.28	1	18
	All	*						All	0.72		
Melanoma	<60	0.39	1	12			Skin (other)	<60	1.14	7	29
	60+	*	0	4				60+	0.51	3	30
	All	0.30†						All	0.83		
Brain	<60	*	0	3			Lymphomas	<60	0.56	9	75
	60+	*	0	0				60+	1.17	6	26
	All	*						All	0.71		
Myeloma	<60	*	0	5			Leukemia	<60	2.36	3	6
	60+	1.69	1	3				60+	*	0	16
	All	0.61†						All	0.67†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	25	570	Esophagus	<60	*	0	3
	60+	1.45	1	14	6	122		60+	*	0	1
	All	0.38†						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	*	0	72
	60+	*	0	10				60+	0.31	1	65
	All	*						All	0.16†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	*	0	7
	All	*						All	*		
Breast	<60	0.53	9	386			Cervix Uteri	<60	1.37	15	249
	60+	0.45	4	180				60+	1.88	5	54
	All	0.50						All	1.47		
Corpus Uteri	<60	0.76	1	30			Ovary	<60	0.64	2	71
	60+	0.86	3	71				60+	*	0	17
	All	0.83						All	0.51†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	2.26	2	18
	All	*						All	1.96†		
Melanoma	<60	1.90	1	12			Skin (other)	<60	0.79	1	29
	60+	*	0	4				60+	0.68	1	30
	All	1.39†						All	0.73		
Brain	<60	*	0	3			Lymphomas	<60	0.61	2	75
	60+	*	0	0				60+	0.78	1	26
	All	*						All	0.66		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PRIMARY METAL INDUSTRY

CANCER DIAGNOSIS							CANCER DIAGNOSIS				
CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.95	2	45	13	570	Esophagus	<60	14.62	1	3
	60+	8.71	1	14	1	122		60+	122.00	1	1
	All	2.64						All	27.95		
Stomach	<60	*	0	11			Colon Rectum	<60	*	0	72
	60+	*	0	10				60+	*	0	65
	All	*						All	*		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	4.87	2	18
	60+	40.67	1	3				60+	*	0	7
	All	7.69†						All	4.22†		
Breast	<60	1.14	10	386			Cervix Uteri	<60	1.76	10	249
	60+	1.36	2	180				60+	2.26	1	54
	All	1.17						All	1.80		
Corpus Uteri	<60	1.46	1	30			Ovary	<60	*	0	71
	60+	1.72	1	71				60+	*	0	17
	All	1.58						All	*		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	3.65	1	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	*	0	30
	All	3.23†						All	*		
Brain	<60	*	0	3			Lymphomas	<60	0.58	1	75
	60+	*	0	0				60+	*	0	26
	All	*						All	0.52†		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.67	1	45	19	570	Esophagus	<60	10.00	1	3
	60+	*	0	14	10	122		60+	*	0	1
	All	0.38†						All	5.85†		
Stomach	<60	*	0	11			Colon Rectum	<60	2.08	5	72
	60+	*	0	10				60+	0.75	4	65
	All	*						All	1.18		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	6.10	1	2
	All	*						All	3.11†		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	1.74	1	7
	All	*						All	0.84†		
Breast	<60	1.32	17	386			Cervix Uteri	<60	2.77	23	249
	60+	0.34	5	180				60+	0.23	1	54
	All	0.81						All	1.92		
Corpus Uteri	<60	2.00	2	30			Ovary	<60	1.27	3	71
	60+	0.69	4	71				60+	2.87	4	17
	All	0.89						All	1.82		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	2.03	1	6				60+	*	0	18
	All	1.02†						All	*		
Melanoma	<60	5.00	2	12			Skin (other)	<60	1.03	1	29
	60+	3.05	1	4				60+	0.41	1	30
	All	4.10						All	0.59		
Brain	<60	*	0	3			Lymphomas	<60	*	0	75
	60+	*	0	0				60+	*	0	26
	All	*						All	*		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PRINTING AND PUBLISHING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.84	1	45	15	570	Esophagus	<60	*	0	3
	60+	*	0	14	6	122		60+	*	0	1
	All	0.54†						All	*		
Stomach	<60	3.46	1	11			Colon Rectum	<60	0.53	1	72
	60+	*	0	10				60+	0.31	1	65
	All	1.30†						All	0.39		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	2.11	1	18
	60+	*	0	3				60+	*	0	7
	All	*						All	1.24†		
Breast	<60	0.59	6	386			Cervix Uteri	<60	1.83	12	249
	60+	0.11	1	180				60+	0.75	2	54
	All	0.37						All	1.53		
Corpus Uteri	<60	*	0	30			Ovary	<60	1.07	2	71
	60+	0.57	2	71				60+	*	0	17
	All	0.47†						All	0.74†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	3.17	1	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	0.68	1	30
	All	1.98†						All	0.45†		
Brain	<60	*	0	3			Lymphomas	<60	0.51	1	75
	60+	*	0	0				60+	*	0	26
	All	*						All	0.31†		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	*	0	16
	All	*						All	*		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN RUBBER AND PLASTIC INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Oral Cavity & Pharynx	<60	*	0	45	15	570	Esophagus	<60	*	0	3
	60+	*	0	14	2	122		60+	*	0	1
	All	*						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	0.53	1	72
	60+	*	0	10				60+	*	0	65
	All	*						All	0.34†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	2.11	1	18
	60+	*	0	3				60+	*	0	7
	All	*						All	1.69†		
Breast	<60	0.59	6	386			Cervix Uteri	<60	1.07	7	249
	60+	0.68	2	180				60+	*	0	54
	All	0.61						All	0.94†		
Corpus Uteri	<60	1.27	1	30			Ovary	<60	0.54	1	71
	60+	1.72	2	71				60+	*	0	17
	All	1.54						All	0.46†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	*	0	30
	All	*						All	*		
Pain	<60	*	0	3			Lymphoma	<60	1.01	2	75
	60+	*	0	0				60+	2.35	1	26
	All	*						All	1.25		
Leukemia	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	3.81	1	16
	All	*						All	2.40†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.93	7	45	46	570	Esophagus	<60	*	0	3
	60+	1.58	4	14	22	122		60+	*	0	1
	All	1.78						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	1.20	7	72
	60+	*	0	10				60+	0.34	4	65
	All	*						All	0.64		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	1.38	2	18
	60+	3.70	2	3				60+	0.79	1	7
	All	1.95†						All	1.12		
Breast	<60	0.71	22	386			Cervix Uteri	<60	1.64	33	249
	60+	0.52	17	180				60+	1.34	13	54
	All	0.62						All	1.54		
Corpus Uteri	<60	1.65	4	30			Ovary	<60	0.52	3	71
	60+	0.94	12	71				60+	1.96	6	17
	All	1.06						All	1.00		
Kidney	<60	1.77	2	14			Bladder	<60	4.13	1	3
	60+	0.92	1	6				60+	1.54	5	18
	All	1.37						All	1.74		
Melanoma	<60	2.06	2	12			Skin (other)	<60	2.14	5	29
	60+	4.16	3	4				60+	0.56	3	30
	All	2.79						All	1.06		
Brain	<60	4.13	1	3			Lymphomas	<60	1.32	8	75
	60+	*	0	0				60+	1.49	7	26
	All	4.13†						All	1.38		
Myeloma	<60	*	0	5			Leukemia	<60	4.13	2	6
	60+	*	0	3				60+	0.35	1	16
	All	*						All	0.93		

RR= relative risk
A= number of cases in specified occupation
B= number of cases in clerical occupations
C= number of non cancer controls in specified occupation
D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

SPINNERS IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	6	570	Esophagus	<60	*	0	3
	60+	*	0	14	3	122		60+	*	0	1
	All	*						All	*		
Stomach	<60	*	0	11			Colon Rectum	<60	*	0	72
	60+	*	0	10				60+	0.63	1	65
	All	*						All	0.42†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	5.81	1	7
	All	*						All	2.70†		
Breast	<60	0.74	3	386			Cervix Uteri	<60	*	0	249
	60+	0.68	3	180				60+	0.75	1	54
	All	0.71						All	0.25†		
Corpus Uteri	<60	*	0	30			Ovary	<60	1.34	1	71
	60+	1.72	3	71				60+	*	0	17
	All	1.45†						All	0.86†		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	13.56	2	6				60+	*	0	18
	All	6.41†						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	*	0	30
	All	*						All	*		
Brain	<60	*	0	3			Lymphomas	<60	*	0	75
	60+	*	0	0				60+	*	0	26
	All	*						All	*		
Myeloma	<60	*	0	5			Leukemia	<60	15.83	1	6
	60+	*	0	3				60+	*	0	16
	All	*						All	2.24†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

C. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EVER
EMPLOYED IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(con'td)

WEAVERS IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	45	5	570	Esophagus	<60	*	0	3
	60+	*	0	14	5	122		60+	24.40	1	1
	All	*						All	11.67†		
Stomach	<60	*	0	11			Colon Rectum	<60	*	0	72
	60+	*	0	10				60+	0.38	1	65
	All	*						All	0.30†		
Pancreas	<60	*	0	4			Nose	<60	*	0	4
	60+	*	0	3				60+	*	0	2
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	18
	60+	*	0	3				60+	*	0	7
	All	*						All	*		
Breast	<60	0.59	2	386			Cervix Uteri	<60	1.83	4	249
	60+	0.41	3	180				60+	0.45	1	54
	All	0.47						All	1.15		
Corpus Uteri	<60	3.80	1	30			Ovary	<60	*	0	71
	60+	1.72	5	71				60+	*	0	17
	All	1.89						All	*		
Kidney	<60	*	0	14			Bladder	<60	*	0	3
	60+	*	0	6				60+	*	0	18
	All	*						All	*		
Melanoma	<60	*	0	12			Skin (other)	<60	*	0	29
	60+	*	0	4				60+	0.81	1	30
	All	*						All	0.67†		
Brain	<60	*	0	3			Lymphomas	<60	1.52	1	75
	60+	*	0	0				60+	0.94	1	26
	All	*						All	1.16		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	6
	60+	*	0	3				60+	3.05	2	16
	All	*						All	2.78†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS

OPERATIVES IN APPAREL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	5.28	3	25	6	264	Esophagus	<60	*	0	3
	60+	6.82	1	11	1	75		60+	*	0	0
	All	5.59						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	1.22	1	36
	60+	*	0	6				60+	*	0	41
	All	*						All	0.73†		
Pancreas	<60	22.00	1	2			Nose	<60	*	0	3
	60+	*	0	2				60+	75.00	1	1
	All	13.19†						All	13.19†		
Larynx	<60	8.80	1	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	7.02†						All	*		
Breast	<60	1.55	7	199			Cervix Uteri	<60	4.73	13	121
	60+	2.56	4	117				60+	25.00	10	30
	All	1.81						All	7.41		
Corpus Uteri	<60	4.63	2	19			Ovary	<60	2.20	2	40
	60+	4.89	3	46				60+	*	0	12
	All	4.77						All	1.86†		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	13.64	2	11
	All	*						All	11.91†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	*	0	21
	All	*						All	*		
Brain	<60	*	0	2			Lymphomas	<60	1.52	1	29
	60+	*	0	0				60+	7.50	1	10
	All	*						All	2.54		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	*	0	2				60+	10.71	1	7
	All	*						All	6.30†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS

(cont'd)

COOKS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.24	2	25	17	264	Esophagus	<60	*	0	3
	60+	0.52	1	11	13	75		60+	*	1	0
	All	0.87						All	*		
Stomach	<60	2.59	1	6			Colon Rectum	<60	0.86	2	36
	60+	*	0	6				60+	0.70	5	41
	All	0.74†						All	0.75		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	2.88	1	2				60+	*	0	1
	All	1.97†						All	*		
Larynx	<60	*	0	5			Lung	<60	1.41	1	11
	60+	*	0	2				60+	5.77	3	3
	All	*						All	2.90		
Breast	<60	0.86	11	199			Cervix Uteri	<60	2.57	20	121
	60+	0.84	17	117				60+	3.08	16	30
	All	0.85						All	2.67		
Corpus Uteri	<60	0.82	1	19			Ovary	<60	0.39	1	40
	60+	0.50	4	46				60+	*	0	12
	All	0.55						All	0.22†		
Kidney	<60	*	0	4			Bladder	<60	15.53	1	1
	60+	1.15	1	5				60+	2.62	5	11
	All	0.87†						All	3.12		
Melanoma	<60	*	0	2			Skin (other)	<60	1.20	1	13
	60+	*	0	3				60+	1.10	4	21
	All	*						All	1.12		
Brain	<60	*	0	2			Lymphomas	<60	*	0	29
	60+	*	0	0				60+	0.58	1	10
	All	*						All	0.28†		
Myeloma	<60	*	0	5			Leukemia	<60	5.18	1	3
	60+	2.88	1	2				60+	0.82	1	7
	All	1.39†						All	1.49		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN FOOD INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	14	264	Esophagus	<60	*	0	3
	60+	*	0	11	12	75		60+	*	0	0
	All	*						All	*		
Stomach	<60	3.14	1	6			Colon Rectum	<60	0.52	1	36
	60+	*	0	6				60+	0.61	4	41
	All	0.84†						All	0.60		
Pancreas	<60	*	0	2			Nose	<60	6.29	1	3
	60+	*	0	2				60+	*	0	1
	All	*						All	3.43†		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	0.76	8	199			Cervix Uteri	<60	1.40	9	121
	60+	0.59	11	117				60+	1.46	7	30
	All	0.66						All	1.41		
Corpus Uteri	<60	0.99	1	19			Ovary	<60	0.94	2	40
	60+	0.54	4	46				60+	0.52	1	12
	All	0.60						All	0.75		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	*	0	11
	All	*						All	*		
Melanoma	<60	9.43	1	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	1.79	6	21
	All	1.92†						All	1.44†		
Brain	<60	*	0	2			Lymphomas	<60	0.65	1	29
	60+	*	0	0				60+	1.25	2	10
	All	*						All	0.94		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	3.12	1	2				60+	*	0	7
	All	1.57†						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

HAIRDRESSERS AND COSMETOLOGISTS

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	20	264	Esophagus	<60	*	0	3
	60+	*	0	11	1	75		60+	*	0	0
	All	*						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	0.37	1	36
	60+	12.50	1	6				60+	5.49	3	41
	All	2.02†						All	1.27		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	*	0	2				60+	75.00	1	1
	All	*						All	5.01†		
Larynx	<60	2.64	1	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	2.40†						All	*		
Breast	<60	0.53	8	199			Cervix Uteri	<60	0.76	7	121
	60+	3.85	6	117				60+	2.50	1	30
	All	0.86						All	0.84		
Corpus Uteri	<60	2.78	4	19			Ovary	<60	1.98	6	40
	60+	3.26	2	46				60+	12.50	2	12
	All	2.82						All	2.54		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	*	0	11
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	*	0	21
	All	*						All	*		
Brain	<60	*	0	2			Lymphomas	<60	0.46	1	29
	60+	*	0	0				60+	30.00	4	10
	All	*						All	2.33		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	75.00	2	2				60+	10.71	1	7
	All	6.07†						All	3.38†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

KITCHEN WORKERS, EXCEPT PRIVATE HOUSEHOLD

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	2.11	2	25	10	264	Esophagus	<60	*	0	3
	60+	2.27	3	11	9	75		60+	*	1	0
	All	2.15						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	2.20	3	36
	60+	*	0	6				60+	0.20	1	41
	All	*						All	0.66		
Pancreas	<60	*	0	2			Nose	<60	8.80	1	3
	60+	*	0	2				60+	*	0	1
	All	*						All	4.69†		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	0.53	4	199			Cervix Uteri	<60	1.09	5	121
	60+	0.64	9	117				60+	3.06	11	30
	All	0.61						All	1.86		
Corpus Uteri	<60	1.39	1	19			Ovary	<60	*	0	40
	60+	0.72	4	46				60+	0.69	1	12
	All	0.81						All	0.34†		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	1.52	2	11
	All	*						All	1.47†		
Melanoma	<60	13.20	1	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	0.40	1	21
	All	2.58†						All	0.33†		
Brain	<60	*	0	2			Lymphomas	<60	0.91	1	29
	60+	*	0	0				60+	0.83	1	10
	All	*						All	0.87		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	4.17	1	2				60+	*	0	7
	All	2.12†						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN LEATHER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	5	264	Esophagus	<60	*	0	3
	60+	6.82	2	11	2	75		60+	*	0	0
	All	2.58†						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	2.93	2	36
	60+	*	0	6				60+	*	0	41
	All	*						All	1.13†		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	18.75	1	2				60+	37.50	1	1
	All	10.61†						All	11.36†		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	1.06	4	199			Cervix Uteri	<60	*	0	121
	60+	1.28	4	117				60+	1.25	1	30
	All	1.16						All	0.32†		
Corpus Uteri	<60	2.78	1	19			Ovary	<60	*	0	40
	60+	1.63	2	46				60+	*	0	12
	All	1.89						All	*		
Kidney	<60	*	0	4			Bladder	<60	52.80	1	1
	60+	*	0	5				60+	*	0	11
	All	*						All	3.27†		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	3.57	2	21
	All	*						All	2.46†		
Brain	<60	*	0	2			Lymphomas	<60	3.64	2	29
	60+	*	0	0				60+	*	0	10
	All	*						All	2.46†		
Myeloma	<60	*	0	5			Leukemia	60	*	0	3
	60+	*	0	2				60+	*	0	7
	All	*						All	*		

RR= relative risk
 A= number of cases in specified occupation
 B= number of cases in clerical occupations
 C= number of non cancer controls in specified occupation
 D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN MISCELLANEOUS MANUFACTURING INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	0.34	1	25	31	264	Esophagus	<60	*	0	3
	60+	1.70	1	11	4	75		60+	*	0	0
	All	0.58						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	0.47	2	36
	60+	*	0	6				60+	0.46	1	41
	All	*						All	0.47		
Pancreas	<60	*	0	2			Nose	<60	2.84	1	3
	60+	9.38	1	2				60+	*	0	1
	All	3.20†						All	2.40†		
Larynx	<60	*	0	5			Lung	<60	0.77	1	11
	60+	*	0	2				60+	*	0	3
	All	*						All	0.69†		
Breast	<60	0.64	15	199			Cervix Uteri	<60	1.41	20	121
	60+	0.80	5	117				60+	4.38	7	30
	All	0.68						All	1.73		
Corpus Uteri	<60	0.45	1	19			Ovary	<60	1.06	5	40
	60+	*	0	46				60+	*	0	12
	All	0.21†						All	0.93†		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	*	0	11
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	0.66	1	13
	60+	*	0	3				60+	0.89	1	21
	All	*						All	0.76		
Brain	<60	*	0	2			Lymphomas	<60	0.88	3	29
	60+	*	0	0				60+	7.50	4	10
	All	*						All	1.85		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	9.38	1	2				60+	*	0	7
	All	1.54†						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
 LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
 (cont'd)

OPERATIVES IN FABRICATED METAL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	3	264	Esophagus	<60	*	0	3
	60+	*	0	11	2	75		60+	*	0	0
	All	*						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	*	0	36
	60+	*	0	6				60+	0.92	1	41
	All	*						All	0.66†		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	*	0	2				60+	*	0	1
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	1.33	3	199			Cervix Uteri	<60	2.18	3	121
	60+	0.32	1	117				60+	5.00	4	30
	All	0.75						All	3.17		
Corpus Uteri	<60	4.63	1	19			Ovary	<60	*	0	40
	60+	0.82	1	46				60+	*	0	12
	All	1.40						All	*		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	3.41	1	11
	All	*						All	3.27†		
Melanoma	<60	44.00	1	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	1.79	1	21
	All	10.55†						All	1.40†		
Brain	<60	*	0	2			Lymphomas	<60	3.03	1	29
	60+	*	0	0				60+	*	0	10
	All	*						All	1.69†		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	*	0	2				60+	*	0	7
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN PAPER INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	4	264	Esophagus	<60	*	0	3
	60+	*	0	11	5	75		60+	*	0	0
	All	*						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	5.50	3	36
	60+	*	0	6				60+	0.37	1	41
	All	*						All	1.26		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	*	0	2				60+	15.00	1	1
	All	*						All	7.11†		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	1.33	4	199			Cervix Uteri	<60	2.73	5	121
	60+	0.38	3	117				60+	*	0	30
	All	0.66						All	1.34†		
Corpus Uteri	<60	*	0	19			Ovary	<60	3.30	2	40
	60+	0.65	2	46				60+	1.25	1	12
	All	0.60†						All	2.15		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	*	0	11
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	*	0	21
	All	*						All	*		
Brain	<60	*	0	2			Lymphomas	<60	*	0	29
	60+	*	0	0				60+	*	0	10
	All	*						All	*		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	*	0	2				60+	*	0	7
	All	*						All	*		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

OPERATIVES IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	1.58	3	25	20	264	Esophagus	<60	*	0	3
	60+	1.36	2	11	10	75		60+	*	0	0
	All	1.49						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	1.47	4	36
	60+	*	0	6				60+	*	0	41
	All	*						All	0.50†		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	*	0	2				60+	*	0	1
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	7.50	2	2				60+	2.50	1	3
	All	2.84†						All	0.79†		
Breast	<60	0.73	11	199			Cervix Uteri	<60	1.86	17	121
	60+	0.64	10	117				60+	1.75	7	30
	All	0.69						All	1.82		
Corpus Uteri	<60	2.08	3	19			Ovary	<60	0.99	3	40
	60+	1.14	7	46				60+	3.75	6	12
	All	1.33						All	1.88		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	2.04	3	11
	All	*						All	1.93†		
Melanoma	<60	6.60	1	2			Skin (other)	<60	4.06	4	13
	60+	5.00	2	3				60+	0.71	2	21
	All	5.40						All	1.63		
Brain	<60	*	0	2			Lymphomas	<60	1.37	3	29
	60+	*	0	0				60+	3.75	5	10
	All	*						All	2.19		
Myeloma	<60	*	0	5			Leukemia	<60	4.40	1	3
	60+	*	0	2				60+	*	0	7
	All	*						All	0.90†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

D. RELATIVE RISKS AND SAMPLE SIZES FOR WOMEN EMPLOYED AT
LEAST 5 YEARS IN THE SPECIFIED OCCUPATION BY AGE AT DIAGNOSIS
(cont'd)

WEAVERS IN TEXTILE MILL INDUSTRY

CANCER DIAGNOSIS	AGE	RR	A	B	C	D	CANCER DIAGNOSIS	AGE	RR	A	B
Buccal Cavity & Pharynx	<60	*	0	25	1	264	Esophagus	<60	*	0	3
	60+	*	0	11	3	75		60+	*	0	0
	All	*						All	*		
Stomach	<60	*	0	6			Colon Rectum	<60	*	0	36
	60+	*	0	6				60+	0.61	1	41
	All	*						All	0.56†		
Pancreas	<60	*	0	2			Nose	<60	*	0	3
	60+	*	0	2				60+	*	0	1
	All	*						All	*		
Larynx	<60	*	0	5			Lung	<60	*	0	11
	60+	*	0	2				60+	*	0	3
	All	*						All	*		
Breast	<60	1.33	1	199			Cervix Uteri	<60	6.54	3	121
	60+	0.43	2	117				60+	0.83	1	30
	All	0.56						All	2.45		
Corpus Uteri	<60	*	0	19			Ovary	<60	*	0	40
	60+	2.72	5	46				60+	*	0	12
	All	2.57†						All	*		
Kidney	<60	*	0	4			Bladder	<60	*	0	1
	60+	*	0	5				60+	*	0	11
	All	*						All	*		
Melanoma	<60	*	0	2			Skin (other)	<60	*	0	13
	60+	*	0	3				60+	1.19	1	21
	All	*						All	1.12†		
Brain	<60	*	0	2			Lymphomas	<60	9.10	1	29
	60+	*	0	0				60+	2.50	1	10
	All	*						All	3.87		
Myeloma	<60	*	0	5			Leukemia	<60	*	0	3
	60+	*	0	2				60+	7.14	2	7
	All	*						All	6.51†		

RR= relative risk

A= number of cases in specified occupation

B= number of cases in clerical occupations

C= number of non cancer controls in specified occupation

D= number of non cancer controls in clerical occupations

SECTION III

Summary Relative Risks and Associated
Probabilities Adjusted for Smoking
Habits for Selected Cancer Sites

A. Men ever employed 185

B. Women ever employed 195

A-1. SMOKING-ADJUSTED RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MALES EVER EMPLOYED IN THE
 VARIOUS OCCUPATIONS FOR THE SPECIFIED DIAGNOSIS

A-1. BUCCAL CAVITY AND PHARYNX

OCCUPATION	RELATIVE RISK	PROBABILITY
Bus, Taxicab and Truck Drivers	1.37	n.s.
Carpenters	0.75	n.s.
Cranemen, Derrickmen and Hoistmen	1.03	n.s.
Deliverymen and Routemen	1.16	n.s.
Electricians	1.53	n.s.
Farmers and Managers in General Crop and Livestock Farms	0.66	n.s.
Foremen, All Industries	0.96	n.s.
Furnacemen, Smeltermen and Pourers	0.82	n.s.
Kitchen Workers, except Private Household	1.48	n.s.
Laborers in Chemical Industry	0.93	n.s.
Laborers in Fabricated Metal Industry	2.15	n.s.
Laborers in Lumber and Wood Industry, except Furniture	2.35	n.s.
Laborers in Misc. Manufacturing Industry	0.66	n.s.
Laborers in Primary Metal Industry	0.86	n.s.

A-1. BUCCAL CAVITY AND PHARYNX (cont'd)

Linemen and Servicemen, Telegraph, Telephone and Power	1.63	n.s.
Locomotive Engineers and Firemen	1.64	n.s.
Machinists	1.36	n.s.
Mechanics and Repairmen	0.98	n.s.
Mine Operatives and Laborers	1.32	n.s.
Molders, Metal	0.85	n.s.
Operatives in Chemical Industry	0.85	n.s.
Operatives in Fabricated Metal Industry	1.16	n.s.
Operatives in Leather Industry	2.93	<.01
Operatives in Misc. Manufacturing Industry	1.05	n.s.
Operatives in Paper Industry	2.09	.03
Operatives in Primary Metal Industry	1.96	n.s.
Operatives in Textile Mill Industry	2.16	n.s.
Painters	1.39	n.s.
Plumbers and Pipe Fitters	1.31	n.s.
Print Workers	2.33	.04
Roofers and Slaters	2.95	n.s.
Shoemakers and Repairers, except Factory	2.98	.03

A-1. BUCCAL CAVITY AND PHARYNX (cont'd)

Stationary Engineers	0.59	n.s.
Stationary Firemen	1.34	n.s.
Tinsmiths, Coppersmiths, and Sheet Metal Workers	1.30	n.s.
Toolmakers, Diemakers and Setters	0.71	n.s.
Welders and Flame-Cutters	0.65	n.s.

A-2. SMOKING-ADJUSTED RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MALES EVER EMPLOYED IN THE
 VARIOUS OCCUPATIONS FOR THE SPECIFIED DIAGNOSIS

A-2. LARYNX

OCCUPATION	RELATIVE RISK	PROBABILITY
Barbers	3.56	<.01
Bus, Taxicab and Truck Drivers	0.95	n.s.
Carpenters	0.99	n.s.
Deliverymen and Routemen	0.68	n.s.
Electricians	1.49	n.s.
Farmers and Managers in General Crop and Livestock Farms	0.59	n.s.
Foremen, All Industries	1.69	n.s.
Laborers in Misc. Manufacturing Industry	0.83	n.s.
Laborers in Primary Metal Industry	0.86	n.s.
Locomotive Engineers and Firemen	1.07	n.s.
Machinists	1.38	n.s.
Mechanics and Repairmen	0.95	n.s.
Mine Operatives and Laborers	1.00	n.s.
Operatives in Chemical Industry	1.76	n.s.
Operatives in Fabricated Metal Industry	1.19	n.s.

A-2. LARYNX (cont'd)

Operatives in Leather Industry	3.07	.02
Operatives in Misc. Manufacturing Industry	1.08	n.s.
Operatives in Paper Industry	2.28	n.s.
Operatives in Primary Metal Industry	1.01	n.s.
Operatives in Textile Mill Industry	2.04	n.s.
Painters	0.92	n.s.
Stationary Firemen	1.97	n.s.

A-3. SMOKING-ADJUSTED RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MALES EVER EMPLOYED IN THE
 VARIOUS OCCUPATIONS FOR THE SPECIFIED DIAGNOSIS

A-3. LUNG

OCCUPATION	RELATIVE RISK	PROBABILITY
Barbers	1.23	n.s.
Bus, Taxicab and Truck Drivers	0.92	n.s.
Carpenters	1.22	n.s.
Cranemen, Derrickmen and Hoistmen	1.19	n.s.
Deliverymen and Routemen	0.97	n.s.
Electricians	2.22	.04
Excavating, Grading and Road Machinery Operators	1.02	n.s.
Farmers and Managers in General Crop and Livestock Farms	0.70	n.s.
Filers, Grinders and Polishers, Metal	0.89	n.s.
Foremen, All Industries	0.85	n.s.
Furnacemen, Smeltermen and Pourers	1.34	n.s.
Kitchen Workers, except Private Household	1.04	n.s.
Laborers in Chemical Industry	0.85	n.s.
Laborers in Fabricated Metal Industry	1.25	n.s.
Laborers in Misc. Manufacturing Industry	0.81	n.s.

A-3. LUNG (cont'd)

Laborers in Paper Industry	0.81	n.s.
Laborers in Primary Metal Industry	0.98	n.s.
Locomotive Engineers and Firemen	0.94	n.s.
Machinists	1.11	n.s.
Mechanics and Repairmen	1.12	n.s.
Millwrights	1.06	n.s.
Mine Operatives and Laborers	1.09	n.s.
Molders, Metal	1.91	n.s.
Operatives in Chemical Industry	1.01	n.s.
Operatives in Fabricated Metal Industry	0.65	n.s.
Operatives in Misc. Manufacturing Industry	0.89	n.s.
Operatives in Paper Industry	1.06	n.s.
Operatives in Primary Metal Industry	1.54	n.s.
Operatives in Textile Mill Industry	1.53	n.s.
Painters	1.90	.03
Plumbers and Pipe Fitters	1.36	n.s.
Stationary Engineers	0.66	n.s.

A-3. LUNG (cont'd)

Stationary Firemen	1.59	n.s.
Toolmakers, Diemakers and Setters	0.59	n.s.
Welders and Flame-Cutters	0.67	n.s.

A-4. SMOKING-ADJUSTED RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR MALES EVER EMPLOYED IN THE
 VARIOUS OCCUPATIONS FOR THE SPECIFIED DIAGNOSIS

A-4. BLADDER

OCCUPATION	RELATIVE RISK	PROBABILITY
Barbers	1.79	n.s.
Bus, Taxicab and Truck Drivers	1.25	n.s.
Carpenters	0.85	n.s.
Deliverymen and Routemen	1.13	n.s.
Electricians	1.87	n.s.
Farmers and Managers in Dairy Farms	2.88	.03
Farmers and Managers in General Crop and Livestock Farms	0.75	n.s.
Filers, Grinders and Polishers, Metal	0.84	n.s.
Foremen, All Industries	0.91	n.s.
Furnacemen, Smeltermen and Pourers	2.60	.04
Laborers in Primary Metal Industry	1.06	n.s.
Locomotive Engineers and Firemen	1.63	n.s.
Machinists	1.04	n.s.
Mechanics and Repairmen	1.21	n.s.
Millwrights	1.83	n.s.
Mine Operatives and Laborers	1.38	n.s.

A-4. BLADDER (cont'd)

Operatives in Fabricated Metal Industry	1.86	n.s.
Operatives in Leather Industry	3.96	<.01
Operatives in Misc. Manufacturing Industry	0.60	n.s.
Operatives in Primary Metal Industry	0.84	n.s.
Painters	1.72	n.s.
Plumbers and Pipefitters	1.80	n.s.

B. SMOKING-ADJUSTED RELATIVE RISKS AND ASSOCIATED
 PROBABILITIES FOR FEMALES EVER EMPLOYED IN THE
 VARIOUS OCCUPATIONS FOR THE SPECIFIED DIAGNOSIS

BUCCAL CAVITY AND PHARYNX

OCCUPATION	RELATIVE RISK	PROBABILITY
Cooks	1.14	n.s.
Kitchen Workers, except Private Household	1.44	n.s.
Operatives in Textile Mill Industry	1.93	.04
Operatives in Apparel Industry	5.71	<.01
Operatives in Misc. Manufacturing Industry	0.56	n.s.

LUNG

Cooks	2.93	.02
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BLADDER

Cooks	4.70	<.01
Kitchen Workers, except Private Household	2.73	.04
Operatives in Textile Mill Industry	2.58	n.s.

TECHNICAL APPENDIX

The relative risk measure shown in the tables is an estimate of the chance that individuals employed in a given occupation of interest develop cancer relative to the chance that individuals employed for clerical occupations develop cancer. The estimated relative risk is calculated from data displayed in 2 X 2 contingency tables of the general form:

	<u>Occupation of Interest</u>	<u>Clerical Occupations</u>	<u>Totals</u>
Cancer Cases	A	B	A + B
Non-Neoplastic Controls	C	D	C + D

The relative risk is estimated by the quantity:

$$RR = (A/B) \div (C/D) = AD/BC \text{ (Odds Ratio)}$$

Relative risks were calculated separately for persons below age 60 and over 60 years of age.

A summary, age-adjusted relative risk was then computed using a methodology suggested by Dr. Rosalie Bertell of the Department of Biostatistics, Roswell Park Memorial Institute. This procedure weights the age-specific relative risks according to the amount of information on which each is based. The new methodology replaces the numbers of control patients in the occupation of interest (C) and in clerical occupations (D) with the quantities C', D' which represent the corresponding expected numbers that would result if the total number of control patients was the same as the total numbers of cancer cases, i.e..

$$C' = (A + B) [C \div (C + D)] \text{ and } D' = (A + B) [D \div (C + D)]$$

This method is applied in each of the two age groups. Then, corresponding entries in the resulting two tables are summed to produce a single, combined contingency table of the form:

	<u>Occupation of Interest</u>	<u>Clerical Occupations</u>
Cancer Cases	A + A 1 2	B + B 1 2
Constructed Control Population	C' + C' 1 2	D' + D' 1 2

The estimated summary, age-adjusted relative risk is then computed as:

$$RR = \frac{(A_{11} + A_{21}) (D'_{11} + D'_{21})}{(B_{11} + B_{21}) (C'_{11} + C'_{21})}$$

This procedure was implemented by a program written for the 1860 Monroe desk calculator by Dr. Leslie Blumenson, also of the Department of Biostatistics, Roswell Park Memorial Institute.

Statistical significance of differences between the proportions of cases and controls employed in a specified occupation was determined by a method suggested by Cochran* that weights the two age-specific differences according to the sample sizes involved. Probability values greater than .05 were arbitrarily defined as non-significant and labeled "n.s." in the tables.

*Cochran, W.G., Some Methods for Strengthening the Common Chi-Square Tests. Biometrics 10:417-451, 1954.

BIBLIOGRAPHY

1. Fershtudt, V.I. Cancer of the Lung Incidence in a Major Industrial Centre. Eng. Acta Un Int Cancr 19:746-8, 1963.
2. Hueper, W.C. Directions and Directives of Occupational Cancer Research. Eng. Acta Un Int Cancr 19:461-4, 1963.
3. Lipkin, I.L. Prevention of Occupational Cancer of the Urinary Bladder in Workers in Aniline Dyes Industry in the U.S.S.R. Eng. Acta Un Int Cancr 19:467-8, 1963.
4. Mancuso, T.F. Tumors of the Central Nervous System. Industrial Considerations. Eng. Acta Un Int Cancr 19:488-9, 1963.
5. Temkin, I.S. The Clinical Prophylaxis of the Urinary Bladder Cancer in the Workers of the Aniline Dyeing Industry. Eng. Acta Un Int Cancr 19:465-6, 1963.
6. Chatgidakis, C.B. An Autopsy Survey of Bantu South African Coal-Miners. Eng. Brit J Industr Med 20:236-42, July 1963.
7. Dingwall-Fordyce, I., and Lane, R.E. A Follow-up Study of Lead Workers. Eng. Brit J Industr Med 20:313-5, October 1963.
8. Galy, P., Touraine, R., Brune, J., Gallois, P., Roudier, R., Loire, R., Lheureux, P., and Wiesendanger, T. Broncho-Pulmonary Cancer Due to Chronic Arsenic Poisoning Among the Winegrowers of Beaujolais Fre. Lyon Med 210:735-44, October 27, 1963.
9. Coppola, R., and Montanaro, R. Considerations on Occupational Tumors of the Bladder. (Clinical Contribution). Ita. Rass Int Clin Ter 43:1230-9, November 30, 1963.
10. Doll, R. Epidemiological Observations on Susceptibility to Cancer in Man with Special Reference to Age. Eng. Acta Un Int Cancr 20:747-52, 1964.
11. Ravara, A.M. Statistical Investigations (from 1947 to 1962) of the Incidence of Tumor Manifestations in an Industrial Zone of Genoa. Ita. Pathologica 56:93-121, March-April 1964.
12. De Villiers, A.J., and Windish, J.P. Lung Cancer in a Fluorspar Mining Community. I. Radiation, Dust, and Mortality Experience. Eng. Brit J Industr Med 21:94-109, April 1964.

13. Parsons, W.D., De Villiers, A.J., Bartlett, L.S., and Becklake, M.R. Lung Cancer in a Fluorspar Mining Community. II. Prevalence of Respiratory Symptoms and Disability. Eng. Brit J Industr Med 21:110-6, April 1964.
14. Hasterlik, R.J., Finkel, A.J., and Miller, C.E. The Cancer Hazards of Industrial and Accidental Exposure to Radioactive Isotopes. Eng. Ann NY Acad Sci 114:832-7, April 2, 1964.
15. Selikoff, I.J., Churg, J., and Hammond, E.C. Asbestos Exposure and Neoplasia. Eng. JAMA 188:22-6, April 6, 1964.
16. Latarjet, Galy, Maret, and Gallois. Broncho-Pulmonary Cancers and Arsenic Poisoning in Vine-Growers of Beaujolais. Fre. Mem Acad Chir (Paris) 90:384-90, April 22, 1964.
17. Maltoni, C. The Exogenous Agents with Oncogenic Action in Humans-Environmental Oncogenesis and Occupational Oncogenesis. Ita. Bull Sci Med (Bologna) 136:135-43, April-June 1964.
18. Enterline, P.E. Mortality Rates Among Coal Miners. Eng. Amer J Public Health 54:758-68, May 1964.
19. Tourenc, E.R., and Donche-Gay, G. Cancer of the Scrotum in Lathe Workers. Apropos of 21 Cases. Fre. Ann Chir 18:610-4, May 1964.
20. Roussel, J., Pernot, C., Schoumacher, P., Pernot, M., and Kessler, Y. Statistical Considerations on Bronchial Cancer in Iron Miners of the Lorraine Basin. Fre. J Radiol Electr 45:541-6, October 1964.
21. Vigliani, E.C., and Saita, G. Benzene and Leukemia. Eng. New Eng J Med 271:872-6, October 22, 1964.
22. Saccomanno, G., Archer, V.E., Saunders, R.P., James, L.A., and Beckler, P.A. Lung Cancer of Uranium Miners on the Colorado Plateau. Eng. Health Phys 10:1195-201, December 1964.
23. Shabad, L.M. Prevention of Chemically Induced Cancer. On Some Principles of Prevention of Cancer Induced by Chemical Substances. Eng. Arch Environ Health (Chicago) 9:770-6, December 1964.
24. Carteau, A. Cancer of the Scrotum Due to Tar or Its Derivatives. Fre. Presse Med 72:3355-60, December 25, 1964.

25. Doll, R., Fisher, R.E., Gammon, E.J., Gunn, W., Hughes, G.O., Tyrer, F.H., and Wilson, W. Mortality of Gas Workers with Special Reference to Cancers of the Lung and Bladder, Chronic Bronchitis, and Pneumoconiosis. Eng. Brit J Industr Med 22: 1-12, January 1965.
26. Goldman, K.P. Mortality of Coal-Miners from Carcinoma of the Lung. Eng. Brit J Industr Med 22:72-7, January 1965.
27. Thiers, H., Colomb, D., Moulin, G., and Durand, B. 7th Case of Chronic Arsenic Poisoning in Beajolais Vine-Growers Complicated by Cutaneous Degeneration with Multiple Foci-Bowen-Type Dyskeratosis and Spinous Cell Epithelioma. Fre. Bull Soc Franc Derm Syph 72:80-2, January-February 1965.
28. Tsuchiya, K. The Relation of Occupation to Cancer, Especially Cancer of the Lung. Eng. Cancer 18:136-44, February 1965.
29. Elmes, P.C., McCaughey, W.T., and Wade, O.L. Diffuse Mesothelioma of the Pleura and Asbestos. Eng. Brit Med J 5431:350-3, February 6, 1965.
30. Dutra, F.R., and Carney, J.D. Asbestosis and Pulmonary Carcinoma. Eng. Arch Environ Health (Chicago) 10:416-23, March 1965.
31. Pierquin, L., Pernot, C., and Kessler, Y. Bronchial Cancer and Occupation. Fre. Arch Mal Prof 26:113-25, March 1965.
32. Koss, L.G., Melamed, M.R., Ricci, A., Melick, W.F., and Kelly, R.E. Carcinogenesis in the Human Urinary Bladder-Observations after Exposure to Para-Aminodiphenyl. Eng. New Eng J Med 272:767-70, April 15, 1965.
33. Rivoire, J., Pommier, A., and Robillard, J. Apropos of Skin Cancers in Lathe Workers. Fre. Bull Soc Franc Derm Syph 72:322-4, May-June 1965.
34. Ismail, H.K. Industrial Hazards on the Nose. Eng. J Laryng 79:511-20, June 1965.
35. Harley, J.L. Bladder Cancer and the Rubber Industry. Eng. Lancet 1:1217-8, June 5, 1965.
36. Despierres, G., Bonnet, P.A., Phelip, H., and Piante, M. Alveolar Cancer and Inhalation of Industrial Oils. Fre. J Franc Med Chir Thorac 19:561-7, July-August 1965.

37. Hinson, K.F. Cancer of the Lungs and Other Diseases After Exposure to Asbestos Dust. Eng. Brit J Dis Chest 59:121-9, July 1965.
38. Thiers, H., Colomb, D., Moulin, G., and Durand, B. The 7th Case of Chronic Arsenism in Viticulturists of Beaujolais Complicated by Cutaneous Degeneration with Multiple Foci-Bowen Type Dyskeratosis and Spinocellular Epithelioma. Fre. Lyon Med 214:19-21, July 4, 1965.
39. Wagoner, J.K., Archer, V.E., Lundin, F.E. Jr., Holaday, D.A., and Lloyd, J.W. Radiation as the Cause of Lung Cancer Among Uranium Miners. Eng. New Eng J Med 273:181-8, July 22, 1965.
40. Davies, J.M. Bladder Tumours in the Electric-Cable Industry. Eng. Lancet 2:143-6, July 24, 1965.
41. Dunn, J.E. Jr., and Weir, J.M. Cancer Experience of Several Occupational Groups Followed Prospectively. Eng. Amer J Public Health 55:1367-75, September 1965.
42. Pierre, F., Robillard, J., and Mouchel, A. Skin Tumors in Workers Exposed to Coal-Tars. Fre. Arch Mal Prof 26:475-81, September 1965.
43. Hardy, H.L. Asbestos Related Disease. Eng. Amer J Med Sci 250:381-9, October 1965.
44. Goldwater, L.J., Rosso, A.J., Kleinfeld, M. Bladder Tumors in a Coal Tar Dye Plant. Eng. Arch Environ Health (Chicago) 11: 814-7, December 1965.
45. Kooperstein, S.I., Schifrin, A., and Leahy, T.J. Lung Cancer and Environment-A Study of Long-Term Exposure to Motor Fumes in Tunnels. Eng. J Occup Med 7:626-9, December 1965.
46. De Villiers, A.J. Cancer of the Lung in a Group of Fluorspar Miners. Eng. Canad Cancer Conf 6:460-74, 1966.
47. Bourasset, A., and Galland, G. Cancer of the Respiratory Tract and Exposure to Nickel Salts. Fre. Arch Mal Prof 27: 227-9, January-February 1966.
48. Rivoire, J., Rommier, A., and Robillard, J. Apropos of Skin Cancers in Lathe Operators. Fre. Lyon Med 215:241-4, January 23, 1966.

49. Seidman, H. Lung Cancer Among Jewish, Catholic and Protestant Males in New York City. Eng. Cancer 19:185-90, February 1966.
50. Wynder, E.L., and Mantel, N. Some Epidemiological Features of Lung Cancer Among Jewish Males. Eng. Cancer 19:191-5, February 1966.
51. Posner, E. Diagnosis and Management of Industrial Chest Disease. Eng. Brit Med J 5486:525-9, February 26, 1966.
52. Birmingham, D.J. Preventable Occupational Dermatoses. Eng. Arch Environ Health (Chicago) 12:639-43, May 1966.
53. Payne, W.W. Occupational Factors in Carcinogenesis. Eng. Public Health Rep 81:777-81, September 1966.
54. Case, R.A. Tumours of the Urinary Tract as an Occupational Disease in Several Industries. Eng. Ann Roy Coll Surg Eng 39:213-35, October 1966.
55. Warren, S., and Lombard, O.M. New Data on the Effects of Ionizing Radiation on Radiologists. Eng. Arch Environ Health (Chicago) 13:415-21, October 1966.
56. Peterson, H., Cohen, N., Berk, H.W. and Petrow, H.G. Epidemiological Follow-Up of the New Jersey Radium Cases. NYO-2181-4. Eng. US Aec Div Techn Inform 1-108, October 1, 1966.
57. Rivoire, J., Pommier, A., and Robillard, J. Apropos of Skin Cancers in Lathe Workers. Fre. Rev Lyon Med 15:763-8, October 30, 1966.
58. Lieben, J. Malignancies in Asbestos Workers. Eng. Arch Environ Health (Chicago) 13:619-21, November 1966.
59. Vigliani, E.C. and Forni, A. Occupational Leukemogenesis. Ita. Minerva Med 57:3952-5, November 24, 1966.
60. Davies, J.M. Epidemiology of Occupational Tumours of the Bladder. Eng. Proc Roy Soc Med 59:1247-8, December 1966.
61. Avellan, L., Breine, U., Jacobsson, B., and Johanson, B. Carcinoma of Scrotum Induced by Mineral Oil. Eng. Scand J Plast Reconstr Surg 1:135-40, 1967.
62. Raphael, M. A Cancer Detection Service for Working Women, with a Report on the First 1,000. Eng. Med J Aust 1:120-3, January 21, 1967.

63. Dalrymple, J.O. Bladder Tumors in Rubber Workers. Eng. Proc Roy Soc Med 60:122-4, February 1967.
64. Acheson, E.D., Hadfield, E.H., and Macbeth, R.G. Carcinoma of the Nasal Cavity and Accessory Sinuses in Woodworkers. Eng. Lancet 1:311-2, February 11, 1967.
65. Evans, R.D. The Radium Standard for Boneseekers-Evaluation of the Data on Radium Patients and Dial Painters. Eng. Health Phys 13:267-78, March 1967.
66. Holaday, D.A. Radiation Hazards in Uranium Mines. Eng. Radiol Health Data Rep 8:135-8, March 1967.
67. Mastromatteo, E. Nickel-A Review of Its Occupational Health Aspects. Eng. J Occup Med 9:127-36, March 1967.
68. Lee, W.R., and McCann, J.K. Mule Spinners' Cancer and the Wool Industry. Eng. Brit J Industr Med 24:149-51, April 1967.
69. Lieben, J., and Pistawka, H. Mesothelioma and Asbestos Exposure. Eng. Arch Environ Health (Chicago) 14:559-63, April 1967.
70. Mancuso, T.F., and El-Attar, A.A. Mortality Pattern in a Cohort of Asbestos Workers. A Study on Employment Experience. Eng. J Occup Med 9:147-62, April 1967.
71. Kleinfeld, M., Messite, J., Kooyman, O., and Zaki, M.H. Mortality Among Talc Miners and Millers in New York State. Eng. Arch Environ Health (Chicago) 14:663-7, May 1967.
72. Kawai, M., Amamoto, H., and Harada K. Epidemiologic Study of Occupational Lung Cancer. Eng. Arch Environ Health (Chicago) 14:859-64, June 1967.
73. Mancuso, T.F., and El-Attar, A.A. Cohort Study of Workers Exposed to Betanaphthylamine and Benzidine. Eng. J Occup Med 9:277-85, June 1967.
74. Murphy, G.P., Johnston, G.S., and Melby E.C. Jr. Comparative Aspects of Experimentally Induced and Spontaneously Observed Renal Tumors. Eng. J Urol 97:965-72, June 1967.
75. Bonser, G.M. Factors Concerned in the Location of Human and Experimental Tumors. Eng. Brit Med J 2:655-60, June 10, 1967.
76. Demy, N.G., and Adler H. Asbestosis and Malignancy. Eng. Amer J Roentgen 100:597-602, July 1967.

77. Goguel, A., Cavigneaux, A., and Bernard, J. Benzene Leukemias in the Paris Region Between 1950 and 1965 (Study of 50 Cases). Fre. Nouv Rev Franc Hemat 7:465-80, July-August 1967.
78. Jones, W.W. The Newer Pneumoconioses (With Special Regard to Foundry Risks). Eng. Ann Occup Hyg 10:241-8, July 1967.
79. Wynder, E.L., and Berg, J.W. Cancer of the Lung Among Non-Smokers. Special Reference to Histologic Patterns. Eng. Cancer 20:1161-72, July 1967.
80. Milham, S. Jr., and Hesser, J.E. Hodgkin's Disease in Woodworkers. Eng. Lancet 2:136-7, July 15, 1967.
81. Baird, V.C. Effects of Atmospheric Contamination on Cancer Mortality in Petroleum Refinery Employees. Eng. J Occup Med 9:415-20, August 1967.
82. Kleinfeld, M., Messite, J., and Kooyman, O. Mortality Experience in a Group of Asbestos Workers. Eng. Arch Environ Health (Chicago) 15:176-80, August 1967.
83. Borow M., Conston, A., Livornese, L.L., and Schalet, N. Mesothelioma and its Association with Asbestosis. Eng. JAMA 201:587-91, August 21, 1967.
84. Benatti, G., Covacev, L., Dall'Oglio, D., and Manini, L. Pulmonary Carcinoma in 'Miller's Lung'. Ita. G Ital Mal Torace 21:249-54, September-October 1967.
85. Boyland, E. Occupational Carcinogenesis. Eng. Practitioner 199:277-84, September 1967.
86. Archer, V.E., Lundin, F.E. Jr. Radiogenic Lung Cancer in Man--Exposure-Effect Relationship. Eng. Environ Res 1:370-83. December 1967.
87. Desbordes, J., Tayot, J., and Dousset, G. Reflections on the Carcinogenic Effect of Asbestos. Fre. Poumon Coeur 24:607-23, 1968.
88. Marhold, J., Matrka, M., Hub, M., and Ruffer, F. The Possible Complicity of Diphenylamine in the Origin of Tumours in the Manufacture of Benzidine. Eng. Neoplasma (Bratisl) 15:3-10, 1968.
89. Planteydt, H.T. Mesothelioma and Asbestos Bodies in the Expectoration of Workers in a Naval Dockyard. Fre. Poumon Coeur 24:545-8, 1968.

90. Ashley, D.J. Lung Cancer in Miners. Eng. Thorax 23:87-91, January 1968.
91. Heppleston, A.G. Cola Mining, Pneumoconiosis, and Lung Cancer. Eng. Brit Med J 1:184, January 20, 1968.
92. Cooper, W.C. Uranium Mining and Lung Cancer. Eng. J Occup Med 10:82-8, February 1968.
93. Davies, J.M. Searching for Occupational Cancer Risks. Eng. Trans Soc Occup Med 18:42-8, April 1968.
94. Selikoff, I.J., Hammond, E.C., and Churg, J. Asbestos Exposure, Smoking, and Neoplasia. Eng. JAMA 204:106-12, April 8, 1968.
95. Wada, S., Miyanishi, M., Nishimoto, Y., Kambe, S., and Miller, R.W. Mustard Gas as a Cause of Respiratory Neoplasia in Man. Eng. Lancet 1:1161-3, June 1, 1968.
96. Acheson, E.D., Cowdell, R.H., Hadfield, E., and Macbeth, R.G. Nasal Cancer in Woodworkers in the Furniture Industry. Eng. Brit Med J 2:587-96, June 8, 1968.
97. Dunn, J.E. Jr., and Weir, J.M. A Prospective Study of Mortality of Several Occupational Groups. Special Emphasis on Lung Cancer. Eng. Arch Environ Health (Chicago) 17:71-6, July 1968.
98. Brett, G.Z., and Benjamin, B. Smoking Habits of Men Employed in Industry, and Mortality. Eng. Brit Med J 3:82-5, July 13, 1968.
99. Ball, M.J. Nasal Cancer in Woodworkers. Eng. Brit Med J 3:253, July 27, 1968.
100. Shabad, L.M. Carcinogenic Substances in Man's Environment-Ways of Cancer Prevention (Particularly of the Lung). Fre. Lyon Med 220:215-30, August 11, 1968.
101. Calvet, J., and Coll, J. Cancer in Occupational Diseases in Otorhinolaryngology. Fre. Arch Mal Prof 29:516-9, September 1968.
102. Knox, J.F., Holmes, S., Doll, R., and Hill, I.D. Mortality from Lung Cancer and Other Causes Among Workers in an Asbestos Textile Factory. Eng. Brit J Industr Med 25:293-303, October 1968.
103. Chiurco, G.A. Human Work and Diseases-Occupational Tumors and Pre-Tumors. Ita. Minerva Med 59:4171-98, October 3, 1968.

104. Delage, J., Gaillard De Collogny, L., and Fonck-Cussac, Y. Epitheliomatosis and Cutaneous Cancer of Occupational Origin. Fre. J Franc Otorhinolaryng 17:755-6, November 1968.
105. Rubin, P. Cancer of the Urogenital Tract-Bladder Cancer. Comment-An Occupational Disease. Eng. JAMA 206:1775-6, November 18, 1968.
106. Higginson, J. Pattern of Cancer in Industrialized and Non-industrialized Communities. Eng. Food Cosmet Toxic 6:585-6, December 1968.
107. Sunderman, F.W. Jr. Nickel Carcinogenesis. Eng. Dis Chest 54:527-34, December 1968.
108. Perrot, J., Arcadio, F., and Thivolet, J. Cancer of the Scrotum of Occupational Origin. Fre. Bull Soc Fr Dermatol Syphiligr 76:371-2, 1969.
109. Thiers, H., Roche, L., Moulin, G., Mohar, N., and Tuailon, J. Occupational (Coal Tar) Spinocellular Epithelioma. Fre. Bull Soc Franc Derm Syph 76:113-4, 1969.
110. Veys, C.A. Aetiology of Tumours of the Urinary Bladder. Eng. Urol Int 24:276-88, 1969.
111. Poole-Wilson, D.S. Occupational Tumours of the Renal Pelvis and Ureter Arising in the Dye-Making Industry. Eng. Proc Roy Soc Med 62:93-4, January 1969.
112. Sutton, M. Occupational Cancer of the Scrotum. Eng. Brit Med J 1:116, January 11, 1969.
113. Vidal, J., and Michel, F.B. Incidence of Bronchial Cancer in Coal Miners. Results of a Study on Tobacco Consumption. Fre. J Fr Med Chir Thorac 23:49-62, January 1969.
114. Cameron, L. Occupational Cancer of the Skin-A Declining Disease. Eng. Health Bull (Edinb) 27:17-20, April 1969.
115. Kipling, M.D. Oil and Carcinoma of the Scrotum. Eng. Trans Soc Occup Med 19:36-40, April 1969.
116. Donaldson, A.W. The Epidemiology of Lung Cancer Among Uranium Miners. Eng. Health Phys 16:563-9, May 1969.
117. Hadfield, E. Tumours of the Nose and Sinuses in Relation to Woodworkers. Eng. J Laryng 83:417-22, May 1969.

118. Gignoux, M., and Bernard P. Malignant Ethmoid Bone Tumors in Woodworkers. Fre. J Med Lyon 50:731-6, May 5, 1969.
119. Holaday, D.A. History of the Exposure of Miners to Radon. Eng. Health Phys 16:547-52, May 1969.
120. Lundin, F.E. Jr. Lloyd, J.W., Smith, E.M., Archer, V.E., Holaday, D.A. Mortality of Uranium Miners in Relation to Radiation Exposure Hard-rock Mining and Cigarette Smoking-1950 through September 1967. Eng. Health Phys 16:571-8, May 1969.
121. Mancuso, T.F., and Keefe, F. Asbestos and Cancer. Eng. Arch Environ Health (Chicago) 18:859-60, May 1969.
122. Spiers, P.S. Hodgkin's Disease in Workers in the Wood Industry. Eng. Public Health Rep 84:385-8, May 1969.
123. Lee, A.M., and Fraumeni, J.F. Jr. Arsenic and Respiratory Cancer in Man-An Occupational Study. Eng. J Nat Cancer Inst 42:1045-52, June 1969.
124. Ferber, K.H. Industrial Bladder Cancer-A Progress Report and Some Unanswered Questions. Eng. J Nat Cancer Inst 43:245-8, July 1969.
125. Owen, R. Occupational Cancer of the Renal Tract-Recent Developments in Epidemiology and Legislation in Great Britain. Eng. J Nat Cancer Inst 43:253-4, July 1969.
126. Parkes, H.G. Epidemiology and Etiology of Human Bladder Cancer-Occupational Bladder Cancer in the British Rubber Industry. Eng. J Nat Cancer Inst 43:249-52, July 1969.
127. Munn, A. Assessment of Industrial Bladder Cancer Hazards from Experimental Data. Eng. J Nat Cancer Inst 43:227-31, July 1969.
128. Veys, C.A. Two Epidemiological Inquiries into the Incidence of Bladder Tumors in Industrial Workers. Eng. J Nat Cancer Inst 43:219-26, July 1969.
129. Crofton, E.C. A Study of Lung Cancer and Bronchitis Mortality in Relation to Coal Mining in Scotland. Eng. Brit J Prev Soc Med 23:140-4, August 1969.
130. Crofton, E.C. A Study of Lung Cancer and Bronchitis Mortality in Relation to Coal-Mining in Scotland. Eng. Brit J Prev Soc Med 23:140-4, August 1969.

131. Mancuso, T.F., and El-Attar, A.A. Epidemiological Study of the Beryllium Industry. Cohort Methodology and Mortality Studies. Eng. J Occup Med 11:422-34, August 1969.
132. Barni, B. Reports of Evaluative Studies of Fatal Cases of the Association of 'Pulmonary Silicosis and Neoplastic Disease'. Ita. Med Lavoro 60:572-81, October 1969.
133. Kusak, V. Ethiopathogenesis of Bronchogenic Pulmonar Carcinoma in Miners from Uranium Mines. Eng. Strahlentherapie 138:549-55, November 1969.
134. Hadfield, E.H. Damage to the Human Nasal Mucosa by Wood Dust. Eng. Inhaled Part Vap 2:855-61, 1970.
135. Bedard, G. Biochemical Factors as Causes of Bladder Cancer. Fre. Laval Med 41:27-31, January 1970.
136. Sheffrin, S. Cancer from Mineral Oil. Eng. Brit Med J 1:50, January 3, 1970.
137. Boyd, J.T., and Doll, R. Cancer of the Lung in Iron-Ore (Haematite) Miners. Eng. Brit J Prev Soc Med 24:63, February 1970.
138. Parkes, H.G. Cancer and Exposure to Mineral Oils. Eng. Industr Med Surg 39:78-81, February 1970.
139. Acheson, E.D., Cowdell, R.H., and Jolles, B. Nasal Cancer in the Northamptonshire Boot and Shoe Industry. Eng. Brit Med J 1:385-93, February 14, 1970.
140. Boyd, J.T., Doll, R., Faulds, J.S., and Leiper, J. Cancer of the Lung in Iron Ore (Haematite) Miners. Eng. Brit J Industr Med 27:97-105, April 1970.
141. Duggan, M.J., Soilleux, P.J., Strong, J.C., and Howell, D.M. The Exposure of United Kingdom Miners to Radon. Eng. Brit J Industr Med 27:106-6, April 1970.
142. Lloyd, J.W., Lundin, F.E. Jr., Redmond, C.K., and Geiser, P.B. Long-Term Mortality Study of Steelworkers. IV. Mortality by Work Area. Eng. J Occup Med 12:151-7, May 1970.
143. Acheson, E.D., Cowdell, R.H., and Jolles, B. Nasal Cancer in the Shoe Industry. Eng. Brit Med J 2:791, June 27, 1970.
144. Behounek, F. History of the Exposure of Miners to Radon. Eng. Health Phys 19:56-7, July 1970.

145. Doig, A.T. Epithelioma of the Scrotum in Scotland in 1967. Eng. Health Bull (Edinb) 28:45-51, July 1970.
146. Cesaro, A.N. Occupational Tumors. Ita. Recent Progr Med (Roma) 49:258-90, September 1970.
147. Thomson, W. Cancer of the Scrotum. An Occupational Disease. Eng. Nurs Times 66:1129-30, September 3, 1970.
148. Leone, G. On the Influence of Enviromental and Occupational Factors in the Etiology of Malignant Tumors. Ita. Minerva Med 61:5006-12, November 3, 1970.
149. Doll, R., Morgan, L.G., and Speizer, F.E. Cancers of the Lung And Nasal Sinuses in Nickel Workers. Eng. Br J Cancer 24:623-32, December 1970.
150. Hodgson, G. Cutaneous Hazards of Lubricants. Eng. Occup Health Rev 22:16-25, 1971.
151. Le Coulant, P., Texier, L., and Tamisier, J.M. Cutaneous Arsenicism and Bronchial Neoplasm. Fre. Bull Soc Fr Dermatol Syphiligr 78:50, 1971.
152. De Villiers, A.J., Windish, J.P., De Brent, F.N., Hollywood, B., Walsh, C., Fisher, J.W., and Parsons, W.D. Mortality Experience of the Community and of the Fluorspar Mining Employees at St. Lawrence, Newfoundland. Eng. Occup Health Rev 22:1-15, 1971.
153. Stumphius, J. Epidemiology of Mesothelioma on Walcheren Island. Eng. Br J Ind Med 28:59-66, January 1971.
154. Wagner, J.C., Gilson, J.C., Berry, G., and Timbrell V. Epidemiology of Asbestos Cancers. Eng. Br Med Bull 27:71-6, January 1971.
155. Lloyd, J.W. Long-term Mortality Study of Steelworkers. V. Respiratory Cancer in Coke Plant Workers. Eng. J Occup Med 13:53-68, February 1971.
156. Ishimaru, T., Okada, H., Tomiyasu, T., Tsuchimoto, T., Hoshino, T., and Ichimaru, M. Occupational Factors in the Epidemiology of Leukemia in Hiroshima and Nagasaki. Eng. Am J Epidemiol 93:157-65, March 1971.
157. Saccomanno, G., Archer, V.E., Auerbach, O., Kuschner, M., Saunders, R.P., and Klein, M.G. Histologic Types of Lung Cancer Among Uranium Miners. Eng. Cancer 27:515-23, March 1971.

158. Tyrrell, A.B., Macairt, J.G., and McCaughey, W.T. Occupational and Non-occupational Factors Associated with Vesical Neoplasm in Ireland. Eng. J Ir Med Assoc 64:213-7, April 22, 1971.
159. Mosbech, J., and Acheson, E.D. Nasal Cancer in Furniture-makers in Denmark. Eng. Dan Med Bull 18:34-5, May 1971.
160. McDonald, J.C., McDonald, A.D., Gibbs, G.W., Siemiatycki, J., and Rossiter, C.E. Mortality in the Chrysotile Asbestos Mines and Mills of Quebec. Eng. Arch Environ Health 22:677-86, June 1971.
161. Waterhouse, J.A. Cutting Oils and Cancer. Eng. Ann Occup Hyg 14:161-70, June 1971.
162. Wyatt, J.P. Occupational Lung Diseases and Inferential Relationships to General Population Hazards. Eng. Am J Pathol 64:197-216, July 1971.
163. Robertson, M.A., Harington, J.S., and Bradshaw, E. The Cancer Pattern in African Gold Miners. Eng. Br J Cancer 25:395-402, September 1971.
164. Axelson, O., and Rehn, M. Lung Cancer in Miners. Eng. Lancet 2:706-7, September 25, 1971.
165. Guira, A.C. Bladder Carcinoma in Rubber Workers. Eng. J Urol 106:548-52, October 1971.
166. Hadfield, E.H., and MacBeth, R.G. Adenocarcinoma of Ethmoids in Furniture Workers. Eng. Ann Otol Rhinol Laryngol 80:699-703, October 1971.
167. Milham, S. Jr. Leukemia and Multiple Myeloma in Farmers. Eng. Am J Epidemiol 94:507-10, October 1971.
168. Robinson, T. Cancer in Woodworkers. Eng. Lancet 2:771-2, October 2, 1971.
169. Selikoff, I.J., and Hammond, E.C. Asbestos Exposure to Coke Oven Operators. Eng. J Occup Med 13:496-7, October 1971.
170. Thomson, W. Occupation and Lung Cancer. Eng. Nurs Times 67:1340-1, October 28, 1971.
171. Parkes, H.G. Screening for Bladder Cancer. Eng. Proc R Soc Med 64:1207-11, December 1971.

172. Acheson, E.D., Cowdell, R.H., and Rang, E. Adenocarcinoma of the Nasal Cavity and Sinuses in England and Wales. Eng. Br J Ind Med 29:21-30, 1972.
173. Greenberg, M. A Proportional Mortality Study of a Group of Newspaper Workers. Eng. Br J Ind Med 29:15-20, 1972.
174. Axelson, O., and Rehn, M. Lung Cancer Among Populations Having Lung Irradiation. Eng. Lancet 1:46-7, Jan. 1, 1972.
175. Aksoy, M., Dincol, K., Erdem, S., and Dincol, G. Acute Leukemia Due to Chronic Exposure to Benzene. Eng. Am J Med 52:160-6, February 1972.
176. Hueper, W.C. Environmental Cancer Hazards. Eng. J Occup Med 14:149-53, February 1972.
177. Matolo, N.M., Klauber, M.R., Gorishek, W.M., and Dixon, J.A. High Incidence of Gastric Carcinoma in a Coal Mining Region. Eng. Cancer 29:733-7, March 1972.
178. Paris, J., and Sterkers, N. Place of Preventive Gynecology in Industrial Medicine. Applications. Results. Fre. Arch Mal Prof 23:113-5, March 1972.
179. Shrimali, R., Jain, A.M., and Shastri, K.D. Radiation Injuries of Hand of Radiologist (Case Reports). Eng. J Assoc Physicians India 20:269-71, March 1972.
180. Fletcher, D.E. A Mortality Study of Shipyard Workers with Pleural Plaques. Eng. Br J Ind Med 29:142-5, April 1972.
181. Hadfield, E.H. Cancer Hazard from Wood Dust and in the Boot and Shoe Industry. Eng. Ann Occup Hyg 15:39-41, April 1972.
182. Lee, W.R., Alderson, M.R., and Downes, J.E. Scrotal Cancer in the North-west of England, 1962-68. Eng. Br J Ind Med 29:188-95, April 1972.
183. Magee, P.N. Possibilities of Hazard from Nitrosamines in Industry. Eng. Ann Occup Hyg 15:1-9, April 1972.
184. Malcolm, D. Potential Carcinogenic Effect of Cadmium in Animals and Man. Eng. Ann Occup Hyg 15:33-7, April 1972.
185. Newhouse, M.L., Berry, G., Wagner, J.C., and Turok, M.E. A Study of the Mortality of Female Asbestos Workers. Eng. Br J Ind Med 29:134-41, April 1972.

186. Roe, F.J. Carcinogenesis in the Context of Occupational Hygiene. Eng. Ann Occup Hyg 15:1-9, April 1972.
187. Wagner, J.C. Current Opinions on the Asbestos Cancer Problem. Eng. Ann Occup Hyg 15:61-5, April 1972.
188. Waller, R.E. The Combined Effects of Smoking and Occupational or Urban Factors in Relation to Lung Cancer. Eng. Ann Occup Hyg 15:67-73, April 1972.
189. Waterhouse, J.A. Lung Cancer and Gastro-Intestinal Cancer in Mineral Oil Workers. Eng. Ann Occup Hyg 15:43-5, April 1972.
190. Cole, P., Hoover, R., and Friedell, G.H. Occupation and Cancer of the Lower Urinary Tract. Eng. Cancer 29:1250-60, May 1972.
191. Friedrich, E.G. Jr. Vulvar Carcinoma in Situ in Identical Twins-An Occupational Hazard. Eng. Obstet Gynecol 39:837-41, June 1972.
192. Redmond, C.K., Ciocco, A., Lloyd, J.W., and Rush, H.W. Long-term Mortality Study of Steelworkers. VI. Mortality from Malignant Neoplasms Among Coke Oven Workers. Eng. J Occup Med 14:621-9, August 1972.
193. Selikoff, I.J., Hammond, E.C., and Churg, J. Carcinogenicity of Amosite Asbestos. Eng. Arch Environ Health 25:183-6, September 1972.
194. Doll, R., Vessey, M.P., Beasley, R.W., Buckley, A.R., Fear, E.C., Fisher, R.E., Gammon, E.J., Gunn, W., Hughes, G.O., Lee, K., and Norman-Smith, B. Mortality of Gasworkers-Final Report of a Prospective Study. Eng. Br J Ind Med 29:394-406, October 1972.
195. Rubino, G.F., Scansetti, G., Donna, A., Palestro, G. Epidemiology of Pleural Mesothelioma in North-Western Italy (Piedmont). Eng. Br J Ind Med 29:436-42, October 1972.
196. Barnes, R. Asbestos and Malignant Disease. Eng. Med J Aust 2:1107-12, November 11, 1972.
197. Melick, W.F. Bladder Carcinoma and Xenylamine. Eng. N Engl J Med 287:1103, November 23, 1972.
198. Enterline, P.E. A Review of Mortality Data for American Coal Miners. Eng. Ann NY Acad Sci 200:260-72, December 29, 1972.

199. Enterline, P., Decoufle, P., and Henderson, V. Mortality in Relation to Occupational Exposure in the Asbestos Industry. Eng. J Occup Med 14:897-903, December 1972.
200. Lewis, G.P., Jusko, W.J., and Coughlin, L.L. Cadmium Accumulation in Man: Influence of Smoking, Occupation, Alcoholic Habit and Disease. Eng. J Chronic Dis 25:717-26, December 1972.
201. Matolo, N.M., Gorishek, W.M., Moslander, V., and Dixon, J.A. Coal Mining and Cancer of the Stomach. Eng. Rocky Mt Med J 69:44-9, December 1972.
202. Goldstein, B., and Webster, I. Coal Workers' Pneumoconiosis in South Africa. Eng. Ann NY Acad Sci 200:306-15, December 29, 1972.
203. Liddell, F.D. Mortality of British Coal Miners in 1961. Eng. Br J Ind Med 30:15-24, January 1973.
204. Biswas, P.N., and Dutta, S.K. Chronic Lung Diseases Amongst Coal Mining Population at Raniganj Coalfield Area. Eng. J Indian Med Assoc 60:8-11, January 1, 1973.
205. Blejer, H.P., and Arlon, R. Talc: A Possible Occupational and Environmental Carcinogen. Eng. J Occup Med 15:92-7, February 1973.
206. Nelson, W.C., Lykins, M.H., Mackey, J., Newill, V.A., Finklea, J.F., and Hammer, D.I. Mortality Among Orchard Workers Exposed to Lead Arsenate Spray: A Cohort Study. Eng. J Chronic Dis 26:105-18, February 1973.
207. Archer, V.E.W., Wagoner, J.K., and Lundin, F.E. Jr. Uranium Mining and Cigarette Smoking Effects on Man. Eng. J Occup Med 15:204-11, March 1973.
208. Parkes, H.G. Screening for Bladder Cancer in the Rubber Industry. Eng. Proc R Soc Med 66:289, March 1973.
209. Enterline, P., Decoufle, P., and Henderson, V. Respiratory Cancer in Relation to Occupational Exposures Among Retired Asbestos Workers. Eng. Br J Ind Med 30:162-6, April 1973.
210. Williams, J.L., and Moller, G.A. Solitary Mass in the Lungs of Coal Miners. Eng. Am J Roentgenol Radium Ther Nucl Med 117:765-70, April 1973.

211. Hoover, R., and Cole, P. Temporal Aspects of Occupational Bladder Carcinogenesis. Eng. N Engl J Med 288:1040-3, May 17, 1973.
212. Figueroa, W.G., Raszkowski, R., and Weiss, W. Lung Cancer in Chloromethyl Methyl Ether Workers. Eng. N Engl J Med 288:1096-7, May 24, 1973.
213. Fitzgerald, M.X., Carrington, C.B., and Gaensler, E.A. Environmental Lung Disease. Eng. Med Clin North Am 57:593-622, May 1973.
214. Kalis, B., and Pourny, C. Professional Cancers and their Prevention. Fre. Therapeutique 49:409-12, May-June 1973.
215. Sunderman, F.W. Jr. The Current Status of Nickel Carcinogenesis. Eng. Ann Clin Lab Sci 3:156-80, May-June 1973.
216. Waxweiler, R.J., Wagoner, J.K., and Archer, V.E. Mortality of Potash Workers. Eng. J Occup Med 15:486-9, June 1973.
217. Ashley, D.J. Lung Cancer in Miners. Eng. Br J Cancer 28:87, July 1973.
218. Benton, B., and Henderson, B.E. Environmental Exposure and Bladder Cancer in Young Males. Eng. J Natl Cancer Inst 51:269-70, July 1973.
219. Harington, J.S., and McGlashan. The Temporal and Spatial Distribution of Oesophageal Cancer Among Mineworkers in Southern Africa. Eng. Br J Cancer 28:86, July 1973.
220. Selikoff, I.J. Widening Perspectives of Occupational Lung Disease. Eng. Prev Med 2:412-37, November 1973.
221. Zavon, M.R., Hoegg, U., and Bingham, E. Benzidine Exposure as a Cause of Bladder Tumors. Eng. Arch Environ Health 27:1-7, July 1973.
222. Schulte, H.F. Commentary-Beryllium, the Criteria Document. Eng. J Occup Med 15:663-5, August 1973.
223. Halen, R.J. Commentary-The Criteria Document for Coke Oven Emissions. Eng. J Occup Med 15:738-9, September 1973.
224. Ashcroft, T. Epidemiological and Quantitative Relationships Between Mesothelioma and Asbestos on Tyneside. Eng. J Clin Pathol 26:832-40, November 1973.

225. Enterline, P.E., and Henderson, V. Type of Asbestos and Respiratory Cancer in the Asbestos Industry. Eng. Arch Environ Health 27:312-7, November 1973.
226. Gobbato, F., and Ferri, R. Epidemiologic Study on Pleural Mesothelioma in the Trieste Area. Ita. Lav Um 25:161-71, November 1973.
227. Saccomanno, G., Archer, V.E., Auerbach, O., and Saunders, R.P. Susceptibility and Resistance to Environmental Carcinogens in the Development of Carcinoma of the Lung. Eng. Hum Pathol 4:487-95, December 1973.
228. Zaldivar, R., and Robinson, H. Epidemiological Investigation on Stomach Cancer Mortality in Chileans-Association with Nitrate Fertilizer. Eng. Z Krebsforsch 80:289-95, December 28, 1973.
229. Creagan, E.T., Hoover, R.N., and Fraumeni, J.F. Jr. Mortality from Stomach Cancer in Coal Mining Regions. Eng. Arch Environ Health 28:28-30, January 1974.
230. McDonald, J.C., Becklake, M.R., Gibbs, G.W., McDonald, A.D., and Rossiter, C.E. The Health of Chrysotile Asbestos Mine and Mill Workers of Quebec. Eng. Arch Environ Health 28:61-8, February 1974.
231. Costello, J., Ortmeyer, C.E., and Morgan, W.K. Mortality from Lung Cancer in U.S. Coal Miners. Eng. Am J Public Health 64:222-4, March 1974.
232. Hasan, F.M., and Kazemi, H. Chronic Beryllium Disease: A Conti Epidemiologic Hazard. Eng. Chest 65:289-93, March 1974.
233. Tepper, L.B. Occupational Bladder Cancer. Eng. J Ky Med Assoc 72:135-8, March 1974.

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