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### Vermont Surgery Study, 1969-1971: On the Incidence of Tonsillectomy and Other Common Types of Surgery

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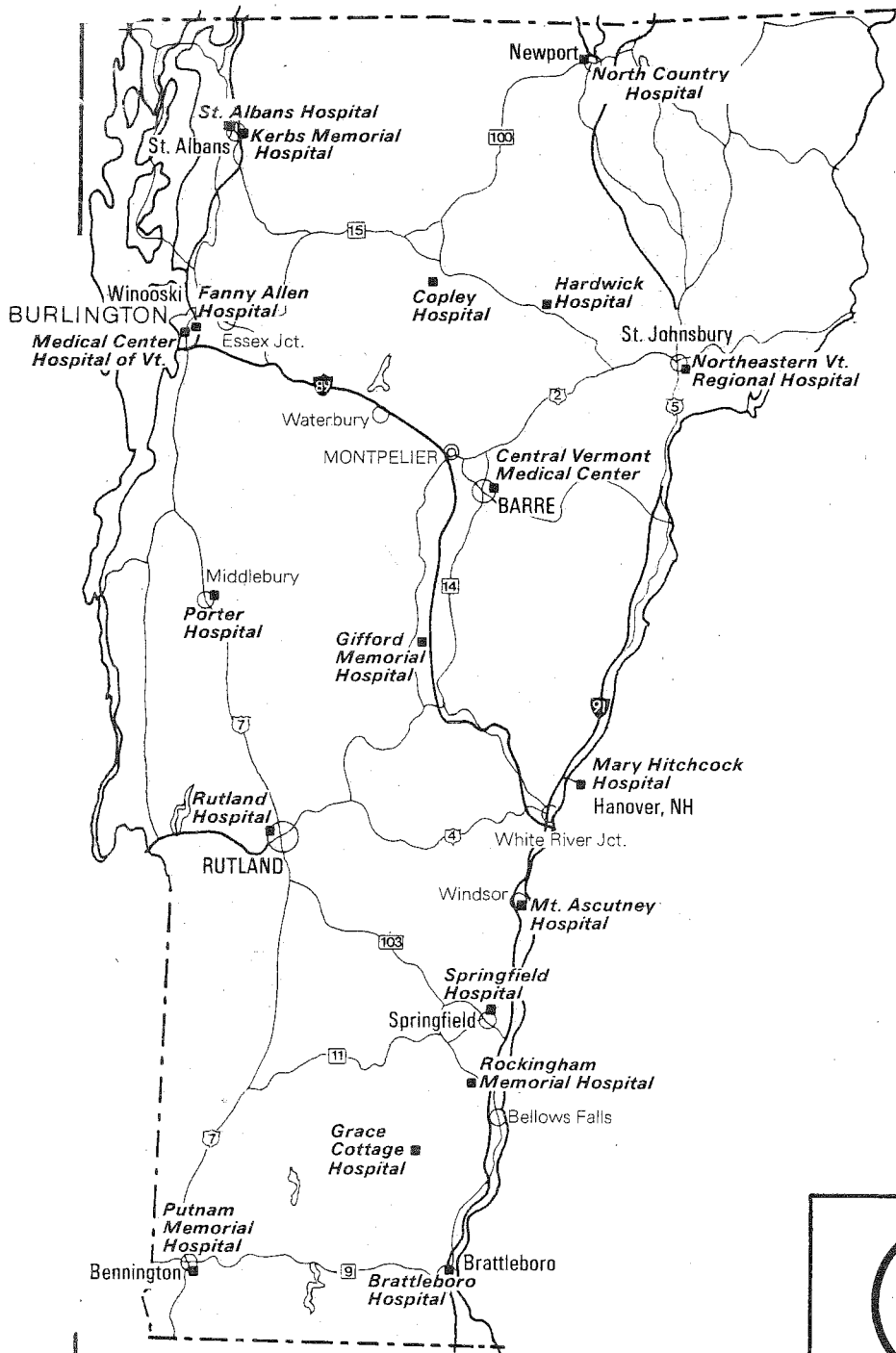
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# vermont surgery study

1969-1971

On the incidence of  
tonsillectomy and other  
common types of surgery

# CHIC

COOPERATIVE HEALTH INFORMATION CENTER OF VERMONT, INC.

# COOPERATIVE HEALTH INFORMATION CENTER OF VERMONT, INC.

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Burlington, Vermont 05401

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July, 1974

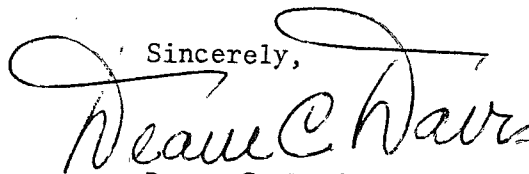
Dear Reader:

It is my pleasure to introduce to you the first Vermont Surgery Study by the Cooperative Health Information Center of Vermont, Inc.

This Study has been prepared in response to expressions of interest in hospital utilization rates in the State. With the cooperation of each hospital and a number of other agencies, CHIC collects and collates information on the health care experiences of each town in Vermont and reports these findings to the profession, the public and to health care managers and planners.

On behalf of the Board and the staff of CHIC, I would like to invite your comments and criticisms regarding this Study. It is our aim to make health care data as useful as possible, and your views would be most welcome.

Sincerely,



Deane C. Davis  
President

DCD:roz

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COOPERATIVE HEALTH INFORMATION CENTER OF VERMONT

Vermont Surgery Study

1969 - 1971

On the Incidence of Tonsillectomy and  
Other Common Types of Surgery

The research in this report was supported in part by Public Health Service grants PHS-RM0303 and HS01197.

The enclosed tabulations accurately reflect the basic data supplied by the Commission on Professional and Hospital Activities of Ann Arbor, Michigan and other data collecting agencies. CHIC assumes no responsibility for the accuracy of the raw data. Any analysis, interpretation, or conclusion based on this material is solely that of the user and CHIC specifically disclaims responsibility for any such analysis, interpretation or conclusion.



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## THE COOPERATIVE HEALTH INFORMATION CENTER

The Cooperative Health Information Center of Vermont, Inc. is a private, non-profit corporation supported primarily by a grant from the National Center for Health Statistics. It was established in the fall of 1972. CHIC operates a statewide health statistics system. It collects and reports information on the health care experiences of people in each town in Vermont; it has no planning, managing or regulating authority.

CHIC is governed by a thirteen member Board of Directors. It provides reports on health care to State agencies, hospitals, the medical profession, State legislators, members of the general public, and university researchers, among others.

Development of the health data base CHIC operates began in Vermont before CHIC was established. In 1967, The Northern New England Regional Medical Program established an information system to describe and evaluate health care programs in the State. The profile of health services that emerged raised questions regarding the distribution and use of health care. It suggested the need for an independent health statistics center to report this information to responsible agencies and individuals at Federal, State and local levels. CHIC was established through the cooperative efforts of the Regional Medical Program, the State Health Department, Comprehensive Health Planning and many other interested Vermonters.

The CHIC Board of Directors has established policies and procedures to protect the confidentiality of the data. Health care providers, such as hospitals or physicians, may not be identified by CHIC without their prior consent. Names of individual patients are not part of the CHIC data system. CHIC information describes the experiences of groups of people rather than individuals.

This Report represents the collaborative efforts of the CHIC staff.

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## INTRODUCTION TO VERMONT SURGERY STUDY

The tonsils and adenoids have been subject to a widespread uncontrolled therapeutic experiment over the past half century so that at times and in certain segments of the society, less than half the children have reached adulthood with these organs intact. While the operation has been recorded in ancient history, its popularity is associated with the advent of modern surgery and anesthesia<sup>1</sup>. Tonsillectomy began to increase in frequency early in the century with a precipitous rise following World War I. Procedure rates continued at high levels since the 1930s and only in the past decade has there been evidence of a decline. Presently, over 1 million tonsillectomies are performed each year in the United States at a total cost estimated to exceed 250 million dollars<sup>2</sup>. It continues to be the single most common surgical procedure performed in the United States and Canada and is the main reason for the hospitalization of children.

In 1938, Glover<sup>3</sup> commented on the wide variation in the incidence of tonsillectomy in different geographic regions of England. Over a decade later, the Registrar General of England and Wales<sup>4</sup> recorded that a child in Rutlandshire was 19 times as likely to have T & A as one in neighboring Cambridgeshire, and that the operative rate in Boxhill was 27 times greater than in northern Birkenhead. A similar situation pertains to the United States and Canada where numerous reports have described large variations in tonsillectomy rates between different communities and between socio-economic classes within the same community.

An examination of case loads of short term hospitals in New England, Liverpool and Sweden revealed marked variations in the rates for common surgical procedures including appendectomy, cholecystectomy, hysterectomy and prostatectomy<sup>5</sup>. A comparison between the United States and England under the National Health Service indicates that surgery rates of all types except appendectomy are twice as high in the former as in the latter<sup>6</sup>. Under the provincial health insurance plans in Canada with universal coverage for all citizens, surgery rates involving removal of tonsils, gall bladders, appendices, prostates and uteri are 50% to 150% higher than corresponding rates experienced in the U.S. Among U.S. Federal Employees, the risk of female surgery and most other common surgical procedures is about double for subscribers of Blue Cross/Blue Shield plans as for subscribers of group plans.<sup>7</sup> For Blue Cross subscribers living in different sections of Kansas, Lewis<sup>8</sup> found two and three fold variations in rates for six common surgical procedures.

The present report is concerned with the surgical case loads in 13 medically distinct geographic communities of Vermont. The objective is to describe patterns of variation for common types of surgery and to explore aspects of medical practice in terms of their effect on population groups.

## MATERIAL AND METHODS

The data set, upon which the present report is based, has been described in a prior publication<sup>9</sup>. Patient discharge abstracts have been collected for all Vermont residents hospitalized in Vermont short term facilities and in referral hospitals of the neighboring states of New York and New Hampshire. No attempt has been made to collect data in more distant institutions for reasons of feasibility. The estimated under-reporting thereby resulting is under five percent.

Vermont is organized administratively into 251 towns averaging 37 square miles in area and ranging in population from 10 to 35,000 persons. The hospital record is coded by town of patient residence. Each town has been classified as belonging to a hospital service area on the basis of the plurality of the hospitalizations of its residents. For towns containing the hospital or located nearby the percent of use of the single facility is high in contrast to that for towns located between two hospitals where utilization tends to be divided. The service areas have been constructed to provide for geographic contiguity. The criterion for including a town in a hospital's catchment area is that at least 60% of its admissions be to that hospital. Towns dividing admissions between two or more facilities and towns primarily feeding cases to out-of-state hospitals have been excluded from the analysis. The resulting 13 hospital catchment areas include 184 towns and 87% of the total population of the state. (See Figures 1 and 2)

Ten of the areas are served by a single community hospital. Two areas have two facilities in the same city and the other area contains both a community and a 500 bed university hospital. In one of the former, the two hospitals have been combined into a single facility since 1971. Over 85% of all hospital admissions of residents throughout the 13 areas took place in the facilities serving the catchment area. Maternities, general surgery and most medical conditions comprising the majority of admissions tend to be highly localized. There is thus a good correspondence between the medical community of an area and the residents hospitalized from that area. In terms of the common surgical procedures of interest, about 90% were performed in the local hospital.

The 1970 Census populations for each town have been aggregated into hospital service area populations which serve as the basis for computing surgical procedure rates. The numerators include all resident surgery cases irrespective of where the procedures were performed. Because the 1970 Census classified college students by location of the institution irrespective of permanent residence, and because hospitals

tend to use billable address for patient residence, the 17 thru 23 year age group has been smoothed to conform with a regular age pyramid. The adjustment is of importance in two of the catchment areas with Census age structures seriously distorted by the presence of colleges and universities. Without correction, the crude and age-adjusted surgery rates would be understatements because of inflated denominators. Population frequencies have been converted to person years in the tables to account for the three years of observation in the Study.

The age-adjusted rate has been utilized to permit direct comparison of areas with differing age structures. The age-adjusted rate is the weighted average of the age specific rates where the weights are based on the proportions of persons in each age group for the total population of the 13 hospital catchment areas. For non-repetitive surgery involving organ removal, the populations have been adjusted downward to account for prior surgery at all earlier ages. Such adjustment is an attempt to estimate the population at risk of surgery and is necessitated because the Census does not enumerate persons by the presence or absence of the various organs under consideration. The disparity between Census counts and persons at risk in a given population may be considerable. Fully half of the children resident in Area #7 are tonsillectomized by age 12 and thus should not be included in the denominator of the tonsillectomy rate after age 12. (Table 4)

A second type of measure used to describe the incidence of non-repetitive surgery is the cumulative probability of organ survival to age x and its complement, the probability of organ loss by age x. These are conditional on survival of the individual to age n. Standard actuarial methods<sup>10</sup> have been employed to convert the age specific surgery rates to age specific probabilities which have been combined to form cumulative probabilities of surgery from birth to age x. The proper interpretation of organ survival and loss probabilities requires the assumption of stability of underlying surgery rates over time, i.e., if physicians and patients continue present behavior into the future the proportion of persons attaining age x with the particular organ intact will be estimated by the cumulative organ survival probability. Few data are available for the study of long term trends. For tonsillectomy, the popularity of the procedure appears to be declining. Perrot<sup>7</sup> reports that tonsillectomy rates among dependents of U.S. Federal Employees covered by Blue Cross/Blue Shield have fallen by 25% over the past decade. A similar reduction has been noted in Canada. Rates for other common procedures during the period have remained stable.

Organ removal occurs either as a primary procedure or as secondary to other operations. Usually, tonsils and adenoids are removed without additional surgery. Myringotomy is coming into increased use as a conjoint procedure with T & A. About half of all appendectomies are performed in conjunction with abdominal surgery initiated for other indications than appendicitis. Unless otherwise specified, appendectomy rates included in the Report refer only to primary appendectomies and

appendix survival to avoidance of primary appendectomy. The extreme example of secondary removal arises with the ovaries and fallopian tubes, oophorectomy and salpingectomy commonly being performed with hysterectomy to which the hospital admission is assigned.

The Vermont data set consists of patient records obtained from 21 participating hospitals for the years 1969-71. (Figure 2) Multiple procedures may be performed for a single admission and reporting practices vary between institutions. For example, in one hospital the operations are listed in chronological order on the face sheet of the medical record and biopsies tend to precede definitive surgery. In order to select the major operation, three hierarchical rules have been applied to all hospital discharge records with more than one procedure coded. The first rule involves categorization of procedures into three groups -- definitive surgery, biopsies and non-surgery -- and selection of the definitive procedure. Application of the second rule arises when multiple definitives are present and entails selection on the basis of the California Relative Value Index (CRVI). The procedure with the highest value is selected as the major operation. When two procedures cannot be distinguished by their relative values, the anatomy rule is invoked whereby the procedure consistent with the major diagnosis is selected. Thus, a case with appendectomy, cholecystectomy and a diagnosis of cholelithiasis is assigned to the gall bladder removal. All cases resulting in a non-decision have been referred to a surgical consultant for review.



## RESULTS

Variations in the occurrence rates for eight of the most common surgical procedures are exhibited in Table 1 which includes comparable data for Saskatchewan<sup>11</sup>, the United States, England and Wales<sup>4</sup> and U.S. Federal Employees<sup>7</sup> covered by group plans and Blue Cross/Blue Shield. The rates are expressed as cases per 10,000 population adjusted to the age distribution of Vermont to account for differing age structures. For the non-repetitive procedures involving organ removal, the rates are understatements as the populations include individuals with prior surgery and not at risk. The extent of the understatement is small except for tonsillectomy and other procedures performed at rates exceeding 5 per 1,000 per year, and, in any case, relative differences are maintained.

For most of the procedures the Vermont rates tend to approximate or to be slightly lower than U.S. rates. With the exceptions of repair of inguinal hernia and mastectomy, Saskatchewan rates tend to exceed all but the highest rates recorded in any of the Vermont hospital service areas. With the exception of the emergency procedure of appendectomy, surgery in England and Wales is performed at about half the rate in the U.S. A more direct comparison without geographic confounding is recorded in the experience of Federal Employees covered by capitation and fee-for-service plans. For each procedure listed, the Blue Cross/Blue Shield rates are about double those for group plan members.

In Vermont, hysterectomy ranges between 30 and 60 cases per 10,000 women per year. Conservative statistical tests lead to rejection of the null hypothesis of equality of rates. The highest Vermont area approximates the Saskatchewan experience and the lowest area approximates the hysterectomy experience of prepaid group plan members. A similar circumstance pertains to cholecystectomy where the Vermont rates range between 18 and 53 cases per 10,000 women. For both of the latter procedures, the highest Vermont area is approximated by Saskatchewan and the lowest Vermont area by England and U.S. members of group health plans.

Vermont appendectomy rates vary over the 13 hospital service areas from 14 to 31 cases per 10,000 per year and are bracketed at the low end by the United Kingdom and at the high end by Saskatchewan. In Hannover of the Federal Republic of Germany, the incidence of appendectomy is 60 per 10,000 which is more than double the highest rates recorded in most other countries.<sup>12</sup> Within Hannover, the rate for white collar workers is 95 as contrasted with a rate of 30 for blue collar workers. No data

are presented which suggest that these variations are related to differential disease incidence. Rather, three out of four cases are ascribed to recurrent scarred appendicitis, neurogenic appendicitis and chronic appendicitis, terms which the authors state "practically represent normal status".

Hospital day rates, reflecting the multiplicative effects of admission rate and medical decisions concerning length of hospital stay, vary by as much as an order of magnitude over the 13 Vermont service areas. (Table 2) Tonsillectomy days per 10,000 persons adjusted for age range between 19 and 289. Appendectomy days vary between 74 and 188, prostatectomy between 232 and 569, hysterectomy from 284 to 670 and mastectomy from 87 to 209. Inguinal hernia days vary by 2-fold between areas and cholecystectomy days by more than 3-fold. For each procedure except mastectomy, the Saskatchewan day rate, resulting from high admission rates and long hospital holding times, exceeds all but the highest Vermont areas and about doubles the State average.

The incidence of tonsillectomy and adenoidectomy by age and area of patient residence is shown in Table 3. Of the 5315 operations performed on persons under age 26, resident in the 13 service areas over the three years, more than two-thirds of the patients were under age 10. Correcting for tonsil removal at earlier ages, the age-adjusted rates for the 13 areas range between 4 and 41 per 1,000 children per year. The highest rates were recorded in Area #7 where 446 tonsils or adenoids were removed from a population of 5,000 under 26. Area #13, with a similar size population, recorded 53 T & As. Annual rates for four and five year olds range from below 1% in Area #2 to almost 10% in Area #7.

The conversion of age specific T & A rates to probabilities is illustrated in Table 4 where the cumulative removal probabilities by specified ages are shown for the 13 hospital catchment areas. For the entire State, one child in five (22%) will have a T & A by his or her twentieth birthday at current procedure rates. In essence, the statistic expresses the risk of T & A assuming the persistence of present physician and patient behavior. The risk varies widely over the State from a low of 9% in area #13 to a high of 60% in Area #7 by age 20. The latter corresponds to the experience in Canada and in other sections of the United States. The estimated probability of 60% for Area #7 is to be contrasted with values of 11%, 19%, 20% and 27% in the four directly adjacent communities, which, for the most part, are served by different groups of physicians operating in different hospitals. The five communities are similar in population density, per capita income, and other demographic characteristics.

The age and sex incidence of tonsillectomy for the total of the 13 communities is displayed in Table 5. While the rates for males and females are the same over the entire 26 year age span, boys predominate at ages under ten years and girls predominate at all ages

above ten years. Girls comprise two-thirds of the T & A cases performed on teenagers and persons aged 20 through 25 years, while 60% of the pre-school tonsillectomies are performed on boys. In terms of the mean age of T & A cases, boys average 8 years and girls nearly 10 years, a pattern which is consistent from area to area of the State. The two year delay in tonsillectomizing girls compared with boys may represent a sex difference in the occurrence of chronic sore throat, otitis media or hypertrophied tonsils which is reversed after age 10. Another possibility might include parental tendencies to protect young girls. There are no additional items of data in the system capable of shedding light on the question.

The incidence of T & A by age is low in infants, rises rapidly to a peak at five or six years and tails off gradually through the elementary and high school years. The pattern is consistent for communities with high and with low overall rates, the incidence curve being displaced upward or downward but maintaining the same general form. Area #7, with the highest incidence in the State, reaches a peak at age 4, an age at which nearly 10% of the available children are tonsillectomized in a single year. (Tables 3 and 5)

Of the 6,359 T & A procedures carried out in persons 25 years and under in all 21 participating hospitals, 74% entailed removal of both adenoids and tonsils, 18% of tonsils alone and 8% of adenoids alone with most of the latter operations performed in teaching hospitals. (Table 6) The patient ages of the adenoid cases were similar in distribution to the T & A cases, both averaging about 7 years. By contrast, the tonsils only cases had a mean age of 16 years. While tonsillectomy exhibited a general decline in the State as well as in other regions of the nation over the three years (Table 7), the isolated adenoidectomy appeared to be gaining in acceptance, the harbinger being its growing use in the university hospitals. In terms of the major diagnoses associated with the cases, 90% were ascribed to hypertrophied tonsils, 5% to chronic otitis media and the remaining 5% to all other categories. Otitis media was reported as the major diagnosis in 16% of the referral hospital cases. A related phenomenon was the increased performance of myringotomy as a secondary procedure in the latter two facilities.

Because cost and charge data are not included in the PAS record, an indirect approach has been used to estimate dollar expenditures for T & As throughout the State. Using Blue Cross/Blue Shield figures covering per day domiciliary charges in a semi-private room by hospital, the total domiciliary charge for each patient was based on the number of hospital days times the day charge. Physician, operating room and anesthesia charges were based on the California Relative Value Index for the procedure times a factor of \$35. The approach understates the total charge per case by not including ancillary services which, for uncomplicated T & As, would add less than 10% to the bill. Table 8 exhibits application of this method for the T & A cases under age 26

resident in the 13 hospital service areas during the three year period 1969 through 1971. The total dollars expended on the procedure was in excess of one million. The average charge per case ranged between \$164 and \$220 around the State figure of \$195, the major source of variation being associated with differing lengths of hospital stay. The mean length of hospital stay varied between 1.2 and 2.4 days. The annual T & A dollars per capita represents an estimate of community expenditures for the procedure among persons under age 26. The estimate ranges from 63¢ in Area #13 to \$5.69 in the highest T & A Area #7.

A total of 92 physicians in the 21 hospitals performed one or more of the 6,356 T & As in persons under age 26 during the three year period. 36 physicians did ten or less, accounting in the aggregate for only 90 of the cases. More than 80% of the procedures were carried out by two dozen practitioners and more than half of all cases were accounted for by ten physicians. (Table 9) The highest numbers of T & As recorded per physician were 373, 389, 395, 429 and 462 operations, the efforts of these four individuals representing over one-quarter of the total case load. The tonsillectomy rates in the smaller communities of the State thus primarily reflect the decision processes and efforts of one or two physicians practicing in the local hospital. Such localization is the key to understanding the wide variance in tonsillectomy rates between the 13 hospital service areas. The rate of 41 tonsillectomies per 1,000 children per year recorded in Area #7 is nearly four times greater than the State rate of 11 and more than ten times greater than the rate observed in Area #13.

There are major differences in procedure rates, types of procedures performed and diagnostic labelling between areas served by teaching and community hospitals. Towns primarily feeding patients into teaching hospitals experience low overall T & A rates while there is a wide variance in rates between the community hospital areas. The teaching hospital case loads are characterized by increased use of adenoidectomy without tonsillectomy, of myringotomy performed in conjunction with T & A and of chronic otitis media as the major reason for surgery. By contrast, the community hospital case loads are predominantly tonsillectomy with and without adenoidectomy performed because of hypertrophied tonsils on children nearly one year older than those in the teaching facilities. The latter effect is associated with increased use of tonsillectomy without adenoidectomy in older teenagers, which in several of the community hospitals comprises more than one third of the cases.

## DISCUSSION

The rates at which particular types of medical interventions occur in different communities depend on a complex series of transactions between patient and physician, the nature of the population being served and characteristics of the predominant medical organization. One might envision a simple model where the process is initiated by an individual seeking a physician's consultation as a result of a perceived change in health status, perhaps involving discomfort, pain or other types of distress. Because of large individual variation in pain thresholds and in beliefs concerning efficacy, the decision to seek care ranges widely between persons confronted with a particular condition. Given that a positive decision has been made, access to treatment is importantly conditioned by the availability of physicians and health facilities as well as by financial means. Given that care has been sought and an appointment obtained, the probability a particular diagnostic label is assigned to the patient and a particular modality of care recommended, depends on the individual practitioner, his diagnostic acumen, his medical specialty and his belief in the appropriateness of the approach. The intermediate steps leading to the observable event of surgery are rarely the object of investigation. The relationship between disease incidence and the initiation of specific therapy is incompletely understood.

Data based on hospital surgery do not permit direct measurement of the multiple factors involved in the process leading to surgery. The relationship between the surgery rate and disease incidence is difficult to investigate, requiring detailed observations well beyond the scope of currently existing data systems. Generally, even surgery rates are not available for population groups, the exception being for enrolled members of certain health insurance plans. Except for a small number of intensively studied conditions, there are at best gross estimates of prevalence of conditions such as gall bladder disease which might lead to cholecystectomy, of uterine fibroids which might result in hysterectomy and of appendicitis which might lead to appendectomy.

There is little knowledge of variations in access to care. Some notion of such variability may be gleaned from the simple observations of physician visit patterns within a single community. Stratifying by age, sex and socio-economic status, persons with out-of-state nativity tend to see physicians nearly twice as often as native born Vermonters. Few systematic attempts have been made to study differences in the recommendations for particular modalities of care which appear to be related to the physician's training and the particular discipline under

which he practices. For the disease thyrotoxicosis during the 1950's, when at least two modes of therapy were prevalent, the recommendation of thyroidectomy was largely dependent on whether the physician was a surgeon or an internist who was more likely to advise treatment with radio-iodine. An element of variability in physician behavior regarding recommendations for tonsillectomy is illustrated by the so-called Glover phenomena. A group of N children were independently assessed by n different physicians in terms of the desirability of removing their tonsils. The number of positive recommendations per child ranged randomly between 0 and n.

The suggestion that organization of practice plays an important role in determining the surgery rates is contained in the experience of Federal Employees and their dependents subscribing to salaried capitation plans such as Kaiser Permanente and to fee-for-service plans such as Blue Cross/Blue Shield. The rates for the common procedures shown in Table 1 are about double for the latter as for the former. It is unlikely that the underlying disease incidence rates vary two-fold between two groups of persons both working for the Federal establishment in similar occupational circumstances, in the same geographic locations and differing ostensibly only in the decision to opt for one type of medical insurance or the other. Since no data have been collected on health status and outcomes in the two groups, it remains unclear whether one system leads to over-utilization or the other to under-utilization.

An additional factor of possible importance in determining surgery rates is the composition of the medical manpower supply itself. In England and Wales, with about half the number of surgeons per capita as in the United States, about half as much surgery is performed. A similar circumstance pertains to the number of surgeons per capita among Kaiser-Permanente subscribers as contrasted with populations in the same areas covered by reimbursement type medical insurance. Type of training and specialization may condition significantly the form of therapy selected since alternate modes are admissible in a wide variety of presenting circumstances. The additional effect of group practice organization with peer review and reduction in financial barriers to consultation may also be of importance in altering the rates.

Within Vermont, the predominant form of health insurance is cost reimbursement under Blue Cross/Blue Shield, private insurance, Medicaid and Medicare. As such, the variations in the surgery rates between communities of the State must be related to differences in incidence, access and manpower. While assessment of the relative contributions of these three factors is not possible at present, the principle of economy would suggest as a null hypothesis that a major element is variability in recommendation practices. For tonsillectomy, medical opinion is divided on questions of indications for the procedure and on efficacy. Incidence appears to have been declining over the past decade in many parts of the U.S. and Canada. The most common indication for tonsillectomy is reported to be a history of chronic or recurrent tonsillitis

associated with a hypertrophied organ<sup>13</sup>. Over 90% of the Vermont cases had a major diagnosis of hypertrophied tonsils. Since tonsil size is gauged in relation to pharyngeal size and relative tonsil size is reported to be at a maximum between 4 and 6 years of age, the judgement of hypertrophy appears to be most likely for children in that age group where procedure rates are at a maximum. Harper<sup>14</sup> suggests that four year olds with large tonsils become seven year olds with ordinary tonsils because of the relatively more rapid pharyngeal growth. A possible example of this phenomena is the observation of Dey<sup>15</sup> of 681 children for whom tonsillectomy was postponed because of a poliomyelitis outbreak. Over one third were judged not to require the operation when re-examined 18 months later. In a sample of 1,000 New York school children 11 years of age, 60% had already been tonsillectomized. The remaining 40% were re-examined by school physicians who selected 45% for T & A. The rejected children were re-examined by a second group of physicians who recommended that 46% undergo the procedure. The third re-examination of the twice rejected children led to tonsillectomy recommendations in 44%. After three successive evaluations, a total of 65 children remained out of the original cohort. The authors concluded that the process of recommendation depended principally on the physician rather than on the child's health status.<sup>16</sup>

The situation for appendectomy and other common procedures is more obscure. For each surgical procedure except herniorrhaphy, the rates exhibit significant 3-fold variation over the State of Vermont and tend to be bracketed on the low end of the scale by Kaiser Permanente and on the high end by Saskatchewan. The relation between the surgery rates over the 13 Vermont communities is not clear-cut so that the total surgical load varies between 49 and 69 cases per 1,000. An area with a high level of female surgery may be low for other procedures. The high tonsillectomy and cholecystectomy area has low rates for hysterectomy and mastectomy.

Under the circumstance, there is no objective measurement of health needs in terms of the prevalence and incidence of the generic conditions associated with surgical intervention of the types under discussion. Similarly, there is no information permitting the evaluation of health outcomes. It is moot whether a high rate for a particular procedure represents over-utilization or a low rate under-utilization. A more definitive interpretation of variability in surgical procedure rates will require additional data beyond the scope of the present investigation.

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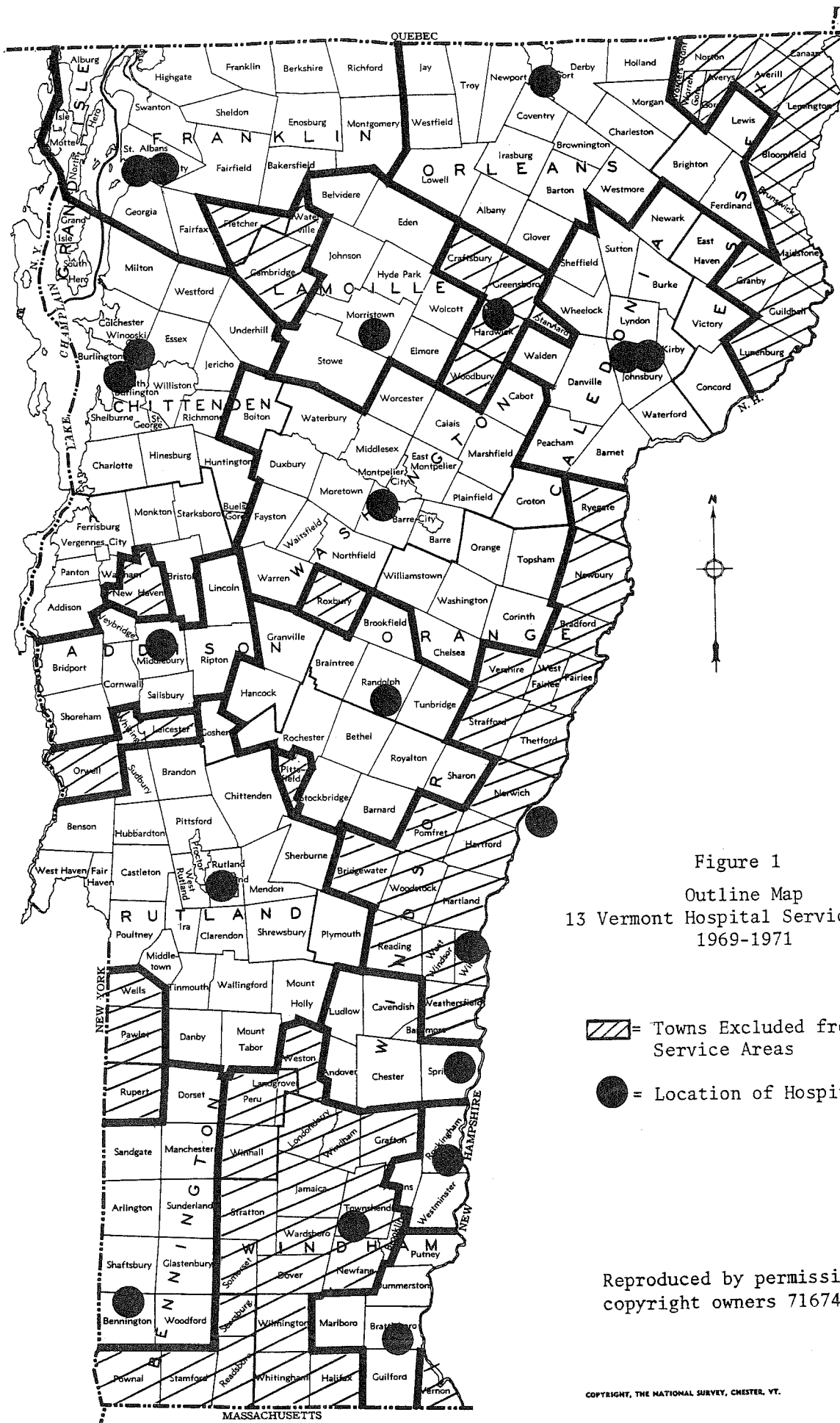


Figure 1  
Outline Map  
13 Vermont Hospital Service Areas  
1969-1971

- = Towns Excluded from Service Areas
- = Location of Hospital

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Figure 2

Hospital  
Service Areas

Vermont Hospitals

Brattleboro	Brattleboro Memorial Hospital Brattleboro, Vermont
Chittenden	Medical Center Hospital of Vermont Burlington, Vermont
	Fanny Allen Hospital Winooski, Vermont
Copley	Copley Hospital Morrisville, Vermont
CVMC	Central Vermont Medical Center Berlin, Vermont
Gifford	Gifford Memorial Hospital Randolph, Vermont
North Country	North Country Hospital and Health Center Newport, Vermont
Porter	Porter Medical Center Middlebury, Vermont
Putnam	Putnam Memorial Hospital Bennington, Vermont
Rockingham	Rockingham Memorial Hospital Rockingham, Vermont
Rutland	Rutland Hospital Rutland, Vermont
St. Albans	Kerbs Memorial Hospital St. Albans, Vermont
	St. Albans Hospital St. Albans, Vermont
St. Johnsbury	Brightlook Hospital St. Johnsbury, Vermont
	St. Johnsbury Hospital St. Johnsbury, Vermont

(As of 1972 the Northeastern Vermont  
Regional Hospital replaced Brightlook  
and St. Johnsbury Hospitals.)

Hospital  
Service Areas (cont'd)

Vermont Hospitals

Springfield

Springfield Hospital  
Springfield, Vermont

Hospitals not included in service area tables but included in  
individual hospital tables

Grace Cottage Hospital  
Townshend, Vermont

Hardwick Hospital (closed in 1973)  
Hardwick, Vermont

Mt. Ascutney Hospital & Health Center  
Windsor, Vermont

Out-of-State Referral Hospitals

Mary Hitchcock Memorial Hospital  
Hanover, New Hampshire

Albany Medical Center (Vt. patients only)  
Albany, New York

The Veterans Administration Center, White River Junction, Vt., is not included in this report.

Table 1

Surgical Procedure Rates per 10,000 Population  
13 Vermont Hospital Service Areas, 1969-71  
Selected Populations (All ages)

Area	T & A	Append- ectomy	Prostat- ectomy (males)	Inguinal Hernia (males)	Mast- ectomy (females)	Hyster- ectomy (females)	Cholecyst- ectomy (females)
Vermont	46	19	25	45	22	41	29
1	66	15	32	50	29	39	27
2	23	15	15	38	16	30	19
3	63	20	29	38	22	30	29
4	54	14	25	38	20	33	30
5	54	25	23	52	24	32	30
6	41	21	21	45	35	48	38
7	135	30	27	54	22	41	53
8	41	31	22	45	27	51	25
9	69	18	28	47	24	60	29
10	46	18	23	47	22	41	32
11	60	25	24	49	22	40	24
12	31	14	32	41	18	43	28
13	16	23	20	51	20	30	18
Saskatchewan	87	32	27	34	21	63	56
U.S.A.	63	20	20	51	26	52	na
England & Wales	32	22	9	29	15	21	na
U.S. Employees	75	22	23	48	28	49	na
BC/BS	20	10	11	30	19	24	na
Group							

Age-adjusted rates computed without decrementing population for prior removals.

Table 2 Patient Days of Hospitalization per 10,000 Population  
13 Vermont Hospital Service Areas, 1969-1971 (all ages)

Area	Days Per 10,000 Per Year						
	T & A	Append- ectomy	Prostat- ectomy (males)	Inguinal Hernia (males)	Mast- ectomy (females)	Hyster- ectomy (females)	Cholecyst- ectomy (females)
Vermont							
1	91	123	405	273	146	439	372
2	151	110	569	326	188	447	309
3	50	115	270	221	119	384	216
4	145	145	497	287	182	284	478
5	117	98	379	230	151	356	438
6	95	135	345	349	207	327	433
7	84	142	364	329	209	544	535
8	289	187	477	325	133	421	651
9	88	188	429	259	109	516	279
10	160	128	374	361	173	670	386
11	92	122	528	344	158	496	436
12	124	171	356	262	131	396	270
13	49	74	410	190	112	421	352
14	19	144	232	261	87	295	208

Table 3

Tonsillectomies and Adenoidectomies per 1,000  
Children per Year by Age and Area of Residence

13 Hospital Service Areas, 1969-1971

Area	Number of Cases	Cases per 1,000 <sup>2</sup>									
		All Ages <sup>1</sup>	2	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-25
Total	5315	11	2	14	28	27	16	10	7	6	5
1	218	17	-	17	35	41	28	20	12	6	6
2	130	5	1	2	8	12	7	6	5	5	4
3	141	15	1	7	41	41	30	20	6	7	6
4	262	14	3	10	29	35	27	11	12	10	8
5	351	12	3	24	33	23	15	8	9	6	6
6	429	10	-	10	29	27	13	9	5	5	4
7	446	41	2	70	94	76	61	39	27	26	35
8	253	9	-	6	17	24	18	10	6	8	5
9	306	17	-	16	50	36	21	21	12	10	7
10	692	11	3	12	27	30	18	10	5	5	6
11	888	14	-	17	32	36	23	12	9	8	6
12	1146	8	3	10	21	20	9	6	5	5	3
13	53	4	2	1	11	11	6	5	2	2	1

1. Rates for all ages adjusted by age distribution of total
2. Populations corrected for estimated T & As removed at earlier ages

Table 4

Proportion of Children with Tonsillectomy  
and Adenoidectomy by Area of Residence  
and Age

13 Hospital Service Areas, 1969-1971

Area	Person Years (1000s)	Number of Cases	Probability of T & A removal by given age					
			4 yrs.	8 yrs.	12 yrs.	16 yrs.	20 yrs.	24 yrs.
Total	535	5315	.03	.13	.18	.20	.22	.23
1	16	218	.03	.17	.25	.27	.31	.33
2	26	130	.01	.04	.07	.09	.11	.12
3	10	141	.02	.17	.24	.26	.29	.30
4	22	262	.03	.14	.20	.24	.28	.29
5	32	351	.05	.15	.19	.21	.24	.26
6	48	429	.02	.13	.16	.18	.20	.21
7	16	446	.13	.38	.50	.55	.60	.63
8	29	253	.01	.09	.14	.16	.19	.20
9	21	306	.03	.19	.25	.28	.32	.33
10	68	692	.03	.13	.18	.20	.22	.23
11	71	888	.03	.16	.21	.24	.27	.28
12	162	1146	.03	.10	.13	.14	.16	.17
13	14	53	.01	.05	.07	.07	.09	.09

Table 5

Incidence of Tonsillectomy and Adenoidectomy  
by Age and Sex  
13 Vermont Hospital Service Areas, 1969-71

	<u>Cases Per 1,000</u> <u>Children Per Year<sup>1</sup></u>			<u>Number of Cases</u>			<u>Percent</u> <u>Male</u>
	<u>Both</u> <u>Sexes</u>	<u>Male</u>	<u>Female</u>	<u>Both</u> <u>Sexes</u>	<u>Male</u>	<u>Female</u>	
Total	11	11	11	5315	2648	2667	50%
< 2	2	2	1	72	52	20	72
2-3	14	16	11	548	327	221	60
4-5	28	31	25	1215	684	531	56
6-7	27	29	25	1200	655	545	55
8-9	16	17	16	685	357	328	52
10-11	10	8	12	396	160	236	40
12-13	7	6	8	267	118	149	44
14-15	6	4	8	231	76	155	33
16-17	8	5	11	274	85	189	31
18-19	7	4	10	190	55	135	29
20-21	5	4	6	121	39	82	32
22-23	3	2	3	66	19	47	29
24-25	2	2	2	50	21	29	42

1

Age specific rates based on estimated populations at risk.



Table 6

Number of T & As Performed on Persons Under 2621 Hospitals Serving Vermont

1969-71

	Total	Number of Cases		Mean Age
		Teaching	Community	at Surgery
	6359	1854	4505	8.91
Tonsils	1168	225	943	16.12
Adenoids	482	388	94	7.22
T & A	4709	1241	3468	7.30

Table 7

Number of T & As by Hospital and Year  
Vermont, 1969-1971

(Under 26 Years of Age)

Hospital	Number of Cases <sup>1</sup>			Percent Change ( '69-'70 vs '71)
	1969	1970	1971	
Total	2162	2250	1947	-12%
1	616	581	431	-28
2	7	20	62	+ 359
3	69	75	86	+ 19
4	47	40	47	+ 8
5	81	85	57	-31
6	25	18	17	-21
7	10	8	4	-56
8	204	179	159	-17
9	269	301	322	+ 13
10	97	57	48	-38
11	4	5	1	-78
12	83	127	132	+ 26
13	69	78	60	-18
14	114	126	104	-13
15	144	193	128	-24
16	224	234	185	-19
17	35	44	21	-47
18	64	79	83	+ 16

<sup>1</sup>

3 Hospitals recorded no T & As during this period.

Table 8

Estimated Dollars Expended on T&A's  
For Persons Under 26 Years of Age  
13 Hospital Service Areas, 1969-71

Area	Number of Persons under 26 (1000s)	Number of T & As	Total Dollars Expended (x1000)	Mean Cost Per Case	Dollars Per Capita
Total	535	5315	\$ 1038	\$ 195	\$ 1.94
1	16	218	46	212	2.92
2	26	130	26	198	.98
3	10	141	31	220	3.02
4	22	262	55	210	2.51
5	32	351	73	205	2.28
6	48	429	78	183	1.65
7	16	446	90	203	5.69
8	29	253	49	195	1.72
9	21	306	67	219	3.14
10	68	692	144	208	2.11
11	71	888	181	204	2.55
12	162	1146	189	164	1.16
13	14	53	9	167	.63

Table 9

Tonsillectomy and Adenoidectomy Cases  
in Persons Under Age 26  
By Number of Procedures per Physician  
Vermont Hospitals, 1969 - 1971

Number of T&A's Per Physician	Number of Physicians <sup>1</sup>	Number of T&A's	Percent of Cases	Cumulative Percent
Total	92	6356	100	-
<10	36	90	1	1
10-	16	329	5	7
30-	9	360	6	12
60-	7	539	9	21
90-	8	862	13	34
120-	6	934	15	49
180-	3	595	9	58
240-	1	240	4	62
300-	1	359	6	68
360-	3	1157	18	86
420+	2	891	14	100

<sup>1</sup>  
3 cases excluded because of unknown M.D.



## APPENDICES AND FIGURES

### INTRODUCTION

The Appendices include the following:

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Appendix A: Appendectomies	35
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Each Appendix has a leading page defining the procedure (s) covered and a list of the Tables included in that Appendix.

The following general comments apply to all the Tables included in the Appendices.

- Tables by Hospital Service Areas include only Vermonters resident in the 13 Areas (See Figure 2). Tables by Hospitals include all patients from those hospitals, Vermont and out-of-state residents.
- The total number of cases for a procedure will vary then depending on whether the table covers Hospital Service Areas or Hospitals. The number of cases may also vary within Areas or Hospitals depending on the other variables included in a table. For instance, the number of cases for a Hospital by year table may be slightly different from a Hospital by diagnosis and age table, depending on the number of cases excluded because of unknown diagnosis or age. The exact number of exclusions and reasons for them may be obtained from CHICV.



- Because age is given in the discharge record as age at last birth date, one half year should be added to all tables with mean patient age or years of age in order to obtain an accurate statement of exact age.
- When the number of entries for a row is zero, that row is omitted from the Table.
- The zero (0) level for rows, the first level, is always equal to total.
- The population used to compute rates is based on the 1970 Census (see Appendix N).
- Diagnostic and procedure codes are based on a system entitled Hospital Adaptation of ICDA (H-ICDA, 1968 edition) developed by the Commission on Professional and Hospital Activities.
- Frequency of procedure is based on its appearance in any of the first three operative procedure fields on the hospital discharge abstract, except where specifically noted as primary or secondary only.





APPENDIX A:

APPENDECTOMIES

1969-1971

The H-ICDA Code for Appendectomy is defined as follows:  
49.1 - Appendectomy

The H-ICDA Codes for diagnoses are as follows:  
541-543 - Other appendicitis; other disease of appendix  
540 - Acute appendicitis  
580-629 - Diseases of the genitourinary system  
630-678 - Delivery and complications of pregnancy,  
childbirth, and the puerperium

Appendectomies are broken down by primary and secondary. Table headings describe which are included.

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table A7 includes only the major diagnosis that is recorded in the first diagnostic position.

- TABLE A1: By Patient Age at Admission and Hospital Service Area of Residence, Number of Cases and Percent by Age Group
- TABLE A2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases per 10,000 Person Years
- TABLE A3: By Hospital Service Area of Residence, Probability of Appendix Removal by Given Age
- TABLE A4: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age
- TABLE A5: Number of Cases per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons
- TABLE A6: By Hospital, Number and Percent of Cases by Year
- TABLE A7: Total Number of Cases by Major Diagnosis Explaining Admission
- TABLE A8: Number of Cases and Mean Patient Age by Hospital



TABLE A1

## PRIMARY APPENDECTOMIES

By Patient Age at Admission and Hospital Service Area of Residence  
Number of Cases and Percent by Age Group  
Vermont, 1969-1971

AREA	TOTAL	<5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+
TOTAL...	2161	31	293	441	452	284	219	128	81	58	57	33	28	18	11	27
SHED-1	51	0	6	5	12	11	8	4	3	0	1	0	0	1	0	0
SHED-2	87	1	9	15	14	13	11	5	4	4	3	1	2	0	2	3
SHED-3	43	2	9	9	3	9	2	1	2	2	1	2	1	0	0	0
SHED-4	64	0	10	11	10	12	8	0	2	3	4	0	1	1	1	1
SHED-5	163	0	23	28	29	24	17	14	7	8	3	5	1	1	0	3
SHED-6	207	3	37	57	49	15	14	6	6	7	5	2	4	1	0	1
SHED-7	100	4	20	25	18	8	12	6	2	3	1	0	0	1	0	1
SHED-8	185	1	35	54	41	14	9	11	3	2	4	3	2	0	1	2
SHED-9	83	0	15	16	20	8	6	4	2	1	4	2	1	0	1	2
SHED-10	265	2	32	57	67	40	19	11	8	6	5	4	4	0	2	5
SHED-11	369	5	28	52	74	55	53	38	26	9	7	6	6	5	1	8
SHED-12	478	13	62	96	104	69	52	26	13	10	13	8	5	4	2	1
SHED-13	66	0	7	16	11	6	8	2	3	3	6	0	1	1	2	0
TOTAL...	100.0	1.4	13.6	20.4	20.9	13.1	10.1	5.9	3.7	2.7	2.6	1.5	1.3	.8	.5	1.2
SHED-1	100.0	.0	11.8	9.8	23.5	21.6	15.7	7.8	5.9	.0	2.0	.0	.0	2.0	.0	.0
SHED-2	100.0	1.1	10.3	17.2	16.1	14.9	12.6	5.7	4.6	4.6	3.4	1.1	2.3	.0	2.3	3.4
SHED-3	100.0	4.7	20.9	20.9	7.0	20.9	4.7	2.3	4.7	4.7	2.3	4.7	2.3	.0	.0	.0
SHED-4	100.0	.0	15.6	17.2	15.6	18.8	12.5	.0	3.1	4.7	6.2	.0	1.6	1.6	1.6	1.6
SHED-5	100.0	.0	14.1	17.2	17.8	14.7	10.4	8.6	4.3	4.9	1.8	3.1	1.6	.6	.0	.5
SHED-6	100.0	1.4	17.9	27.5	23.7	7.2	6.8	2.9	2.9	3.4	2.4	1.0	1.9	.5	.0	.0
SHED-7	100.0	4.0	20.0	25.0	18.0	8.0	12.0	6.0	2.0	3.0	1.0	.0	.0	.0	.0	1.0
SHED-8	100.0	.5	18.9	29.2	22.2	7.6	4.9	5.9	1.6	1.1	2.2	1.6	1.1	1.6	.5	1.1
SHED-9	100.0	.0	18.1	19.3	24.1	9.6	7.2	4.8	2.4	1.2	4.8	2.4	1.2	.0	2.4	2.4
SHED-10	100.0	.8	12.1	21.5	25.3	15.1	7.2	4.2	3.0	2.3	1.9	1.5	1.5	1.9	.0	1.9
SHED-11	100.0	1.4	7.6	14.1	20.1	14.9	14.4	10.3	7.0	2.4	1.9	1.6	1.6	.3	.3	2.2
SHED-12	100.0	2.7	13.0	20.1	21.8	14.4	10.9	5.4	2.7	2.1	2.7	1.7	1.6	.8	.4	.0
SHED-13	100.0	.0	10.6	24.2	16.7	9.1	12.1	3.0	4.5	4.5	9.1	.0	1.5	1.5	3.0	.0

TABLE A2

## PRIMARY APPENDECTOMIES

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases per 10,000 per year		
		Obs #	Exp #	Ratio	Crude Rate	Total	Age-Adjusted Males      Females
TOTAL...	1121136	2161	2161.0	1.00	19.3	20.2	20.9      19.6
SHED-1	34317	51	64.9	.79	14.9	15.8	13.5      18.3
SHED-2	58674	87	103.7	.79	14.8	16.0	19.0      13.0
SHED-3	22581	43	41.9	1.03	19.0	21.2	18.2      23.8
SHED-4	49023	64	90.7	.71	13.1	13.9	17.2      10.8
SHED-5	70965	163	129.3	1.26	23.0	26.0	23.2      28.6
SHED-6	96999	207	187.3	1.11	21.3	22.1	25.1      19.4
SHED-7	32703	100	63.9	1.57	30.6	32.2	33.8      30.9
SHED-8	60852	185	116.4	1.59	30.4	32.3	33.2      31.5
SHED-9	49647	83	90.2	.92	16.7	18.4	21.4      15.3
SHED-10	149538	265	279.8	.95	17.7	19.0	21.5      16.7
SHED-11	154518	369	289.5	1.27	23.9	26.3	19.4      32.9
SHED-12	312570	478	641.2	.75	15.3	14.9	17.1      12.7
SHED-13	28749	66	56.4	1.17	23.0	24.0	28.8      19.5

TABLE A3

## PRIMARY APPENDECTOMIES

By Hospital Service Area of Residence  
Probability of Appendix Removal by Given Age  
Vermont, 1969-1971

AREA	TOTAL	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
AREA...	.0000	.0000	.0015	.0136	.0321	.0546	.0726	.0870	.0973	.1041	.1087	.1133	.1162	.1188	.1207	.1220
SHED-1	.0000	.0000	.0000	.0089	.0159	.0353	.0576	.0758	.0872	.0962	.0962	.0988	.0988	.0988	.1018	.1016
SHED-2	.0000	.0000	.0011	.0089	.0212	.0338	.0512	.0682	.0764	.0829	.0887	.0930	.0946	.0979	.0979	.1016
SHED-3	.0000	.0000	.0051	.0238	.0422	.0497	.0850	.0923	.0966	.1059	.1141	.1178	.1254	.1297	.1297	.1297
SHED-4	.0000	.0000	.0000	.0107	.0233	.0356	.0505	.0627	.0627	.0667	.0720	.0791	.0811	.0811	.0831	.0856
SHED-5	.0000	.0000	.0000	.0161	.0362	.0598	.0869	.1060	.1252	.1350	.1445	.1483	.1552	.1565	.1579	.1579
SHED-6	.0000	.0000	.0016	.0189	.0451	.0726	.0837	.0950	.1013	.1075	.1140	.1188	.1208	.1250	.1264	.1264
SHED-7	.0000	.0000	.0064	.0335	.0683	.1010	.1175	.1418	.1572	.1629	.1719	.1750	.1750	.1750	.1750	.1750
SHED-8	.0000	.0000	.0009	.0283	.0670	.1003	.1197	.1327	.1510	.1560	.1590	.1646	.1690	.1726	.1778	.1798
SHED-9	.0000	.0000	.0000	.0159	.0321	.0552	.0689	.0787	.0868	.0911	.0929	.0986	.1014	.1030	.1030	.1091
SHED-10	.0000	.0000	.0008	.0111	.0293	.0546	.0751	.0852	.0923	.0976	.1012	.1042	.1065	.1091	.1126	.1126
SHED-11	.0000	.0000	.0018	.0102	.0263	.0546	.0827	.1092	.1302	.1454	.1506	.1548	.1586	.1623	.1630	.1638
SHED-12	.0000	.0000	.0020	.0105	.0243	.0424	.0560	.0664	.0731	.0767	.0796	.0837	.0865	.0886	.0906	.0918
SHED-13	.0000	.0000	.0000	.0110	.0369	.0574	.0717	.0925	.0986	.1090	.1176	.1361	.1361	.1403	.1445	.1543

TABLE A4  
PRIMARY APPENDECTOMIES  
By Hospital, Number of Cases, Total Hospital  
Days, Mean Length of Hospital Stay and Mean Adjusted by Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Crude Mean	S.D.	Age- Adjusted Mean
0.	2737	17648	6.45	6.45	6.45
1.	459	2492	5.43	4.12	5.40
2.	89	472	5.30	3.04	5.46
3.	111	757	6.82	3.30	6.98
4.	110	707	6.43	3.71	6.33
5.	188	1154	6.14	2.37	6.39
6.	89	673	7.56	4.15	7.40
7.	7	52	7.43	3.25	6.17
9.	138	906	6.57	3.05	6.70
10.	402	2803	6.97	13.57	7.49
11.	46	329	7.15	6.29	6.69
12.	6	40	6.67	3.09	7.02
13.	111	832	7.50	5.13	7.13
14.	76	518	6.82	3.42	6.73
15.	112	786	7.02	4.02	6.98
16.	1	8	8.00	.00	8.00
17.	241	1403	5.82	3.90	5.56
18.	328	2189	6.67	4.98	6.73
19.	90	575	6.39	5.39	5.95
20.	133	952	7.16	3.36	7.26

TABLE A5

## PRIMARY APPENDECTOMIES

Number of Cases per Surgeon, Total Cases Performed  
By Vermont Physicians and Surgeons, 1969-1971

Number of Cases	Physicians			Primary Appendectomy Cases		
	Number	%	Cumulative Number	Number	%	Cumulative Number
1	32	22.86	32	32	1.18	32
2	15	10.71	47	30	1.11	62
3	6	4.29	53	18	.66	80
4	4	2.86	57	16	.59	96
5	4	2.86	61	20	.74	116
6	2	1.43	63	12	.44	128
7	4	2.86	67	28	1.03	156
8	3	2.14	70	24	.89	180
9	3	2.14	73	27	1.00	207
10	1	.71	74	10	.37	217
11	1	.71	75	11	.41	228
12	4	2.86	79	48	1.77	276
13	2	1.43	81	26	.96	302
14	2	1.43	83	30	1.11	332
15	3	2.14	86	48	1.77	380
16	1	.71	87	17	.63	397
17	1	.71	88	18	.66	415
18	1	.71	89	19	.70	434
19	2	1.43	91	40	1.48	474
20	5	3.57	96	110	4.06	584
21	1	.71	97	24	.89	608
22	1	.71	98	25	.92	633
23	2	1.43	100	52	1.92	685
24	2	1.43	102	54	1.99	739
25	2	1.43	104	56	2.07	795
26	1	.71	105	29	1.07	824
27	2	1.43	107	62	2.29	886
28	3	2.14	110	99	3.66	985
29	1	.71	111	35	1.29	1020
30	3	2.14	114	111	4.10	1131
31	2	1.43	116	76	2.81	1207
32	1	.71	117	39	1.44	1246
33	3	2.14	120	123	4.54	1369
34	2	1.43	122	84	3.10	1453
35	2	1.43	124	86	3.18	1539
36	1	.71	125	51	1.88	1590
37	1	.71	126	56	2.07	1646
38	1	.71	127	57	2.11	1703
39	1	.71	128	60	2.22	1763
40	1	.71	129	61	2.25	1824
41	1	.71	130	64	2.36	1888
42	1	.71	131	67	2.48	1955
43	1	.71	132	69	2.55	2024
44	2	1.43	134	152	5.62	2176
45	1	.71	135	77	2.84	2253
46	2	1.43	137	158	5.84	2411
47	1	.71	138	80	2.96	2491
48	1	.71	139	93	3.44	2584
49	1	.71	140	123	4.54	2707

TABLE A6

## PRIMARY APPENDECTOMIES

By Hospital

Number and Percent of Cases by Year

Vermont, 1969-1971

Hospital	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	2738	940	886	912	100.0	34.3	32.4	33.3
1.	459	189	137	133	100.0	41.2	29.8	29.0
2.	89	22	25	42	100.0	24.7	28.1	47.2
3.	111	46	41	24	100.0	41.4	36.9	21.6
4.	110	46	30	34	100.0	41.8	27.3	30.9
5.	188	68	61	59	100.0	36.2	32.4	31.4
6.	89	33	28	28	100.0	37.1	31.5	31.5
7.	7	3	1	3	100.0	42.9	14.3	42.9
9.	138	41	47	50	100.0	29.7	34.1	36.2
10.	402	105	145	152	100.0	26.1	36.1	37.8
11.	47	16	13	18	100.0	34.0	27.7	38.3
12.	6	3	1	2	100.0	50.0	16.7	33.3
13.	111	29	45	37	100.0	26.1	40.5	33.3
14.	76	26	25	25	100.0	34.2	32.9	32.9
15.	112	49	39	24	100.0	43.7	34.8	21.4
16.	1	0	0	1	100.0	.0	.0	100.0
17.	241	79	69	93	100.0	32.8	28.6	38.6
18.	328	120	98	110	100.0	36.6	29.9	33.5
19.	90	27	31	32	100.0	30.0	34.4	35.6
20.	133	38	50	45	100.0	28.6	37.6	33.8



TABLE A7  
PRIMARY AND SECONDARY APPENDECTOMIES  
Total Number of Cases by Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #)				(H-ICDA Code #)			
Major Diagnosis	Total	Primary	Secondary	Major Diagnosis	Total	Primary	Secondary
0.	5289	2602	2687	272.	1	0	1
4.	1	0	1	277.	25	0	25
7.	1	1	0	280.	1	0	1
8.	2	2	0	282.	4	0	4
9.	28	25	3	287.	2	0	2
11.	1	0	1	288.	1	0	1
39.	1	0	1	289.	133	116	17
52.	1	1	0	290.	1	1	0
122.	1	0	1	295.	1	1	0
127.	6	6	0	301.	1	0	1
135.	1	0	1	307.	1	0	1
151.	1	0	1	311.	1	0	1
153.	39	1	38	313.	1	0	1
154.	20	0	20	315.	3	2	1
157.	2	0	2	340.	3	0	3
171.	3	0	3	343.	1	0	1
174.	10	0	10	346.	1	0	1
180.	89	0	89	357.	1	0	1
182.	35	0	35	394.	1	0	1
183.	8	0	8	401.	3	0	3
188.	11	0	11	410.	3	1	2
189.	1	0	1	412.	2	0	2
192.	1	0	1	428.	2	1	1
197.	1	0	1	437.	1	1	0
199.	1	0	1	440.	20	10	10
200.	1	0	1	441.	11	0	11
202.	1	0	1	444.	5	0	5
211.	13	0	13	445.	1	1	0
214.	2	0	2	446.	1	0	1
215.	2	0	2	450.	1	0	1
218.	286	1	285	452.	6	4	2
219.	21	1	20	454.	2	0	2
220.	184	6	178	455.	1	0	1
221.	12	2	10	456.	1	1	0
227.	1	0	1	458.	1	0	1
228.	1	0	1	485.	1	0	1
230.	1	1	0	486.	2	2	0
234.	2	0	2	489.	1	0	1
235.	2	0	2	491.	1	0	1
250.	6	2	4	492.	1	0	1
255.	1	0	1	500.	3	0	3
256.	9	0	9				
258.	4	0	4				

TABLE A7 CONTINUED: Primary and Secondary Appendectomies  
Total Number of Cases by Major Diagnosis

(H-ICDA Code #) Major Diagnosis	Total	Primary	Secondary	(H-ICDA Code #) Major Diagnosis	Total	Primary	Secondary
517.	1	0	1	624.	31	0	31
531.	6	0	6	625.	102	1	101
532.	17	1	16	626.	98	6	92
533.	2	0	2	627.	1	0	1
535.	3	1	2	628.	12	2	10
537.	3	0	3	629.	2	0	2
540.	2083	2011	72	630.	2	1	1
541.	4	4	0	631.	21	1	20
542.	76	66	10	632.	1	0	1
543.	53	46	7	633.	4	3	1
550.	42	2	40	635.	2	0	2
551.	22	0	22	640.	3	1	2
552.	7	0	7	643.	6	4	2
553.	10	0	10	650.	151	64	87
560.	38	9	29	651.	9	2	7
561.	2	1	1	654.	1	1	0
562.	43	3	40	655.	24	6	18
563.	14	8	6	656.	20	6	14
564.	1	0	1	657.	5	2	3
567.	16	6	10	658.	18	11	7
568.	12	4	8	661.	74	10	64
569.	15	2	13	682.	3	2	1
571.	2	1	1	686.	1	1	0
572.	1	0	1	695.	1	0	1
574.	546	0	546	734.	1	0	1
575.	49	0	49	735.	1	0	1
576.	4	0	4	738.	1	0	1
577.	5	1	4	741.	3	0	3
582.	1	1	0	746.	1	0	1
590.	8	3	5	751.	34	4	30
591.	5	1	4	752.	8	2	6
592.	1	0	1	753.	3	0	3
593.	4	2	2	756.	2	0	2
595.	6	1	5	759.	1	1	0
596.	10	2	8	769.	1	0	1
598.	1	0	1	780.	2	2	0
599.	4	2	2	784.	1	0	1
600.	1	0	1	785.	90	60	30
604.	1	1	0	786.	10	1	9
610.	3	1	2	793.	2	1	1
612.	11	3	8	796.	2	1	1
613.	7	0	7				
614.	16	0	16				
615.	138	23	115	540 - Acute Appendicitis			
616.	75	11	64	574 - Cholelithiasis			
620.	30	1	29	218 - Uterine Fibroma			
621.	29	0	29	220 - Benign Neoplasm of Ovary			
622.	6	1	5	650 - Delivery without mention of complication			
623.	27	1	26	615 - Other Diseases of Ovary and Fallopian Tube			

TABLE A8  
PRIMARY AND SECONDARY APPENDECTOMIES  
Number of Cases and Mean Patient Age by Hospital  
Vermont, 1969-1971

Hospital	Number of Cases		Mean Age of Patient	
	Total	Primary	Secondary	Total
0.	5111	2546	2565	30.24
1.	972	443	529	21.17
2.	215	89	126	21.11
3.	242	110	132	21.49
4.	235	103	132	17.27
5.	306	168	138	30.74
6.	103	84	19	31.51
7.	10	7	3	19.22
8.	214	135	79	18.32
9.	609	319	290	23.71
10.	94	42	52	33.00
11.	14	6	8	33.10
12.	173	103	70	22.50
13.	101	70	31	30.88
14.	136	110	26	28.34
15.	1	1	0	34.07
16.	391	223	168	27.51
17.	660	325	335	26.56
18.	152	86	66	23.90
19.	481	122	359	21.68
20.	2	0	2	19.00
21.				29.96
				31.14
				27.41
				37.12
				65.00

ANALYSIS OF VARIANCE TABLE:

SOURCE	S.S.	M.S.	D.F.	F-STAT
HOSPITAL	56103.	2953.	19	12.41
SURGERY.	417594.	417594.	1	1755.69
RESIDUAL	1210663.	238.	5090	

1969-1971

The H-ICDA Code for Cholecystectomy is defined as follows:

53.5 - Cholecystectomy

The H-ICDA Codes for diagnoses are as follows:

150-159 - Primary malignant neoplasm of digestive organs  
and peritoneum

574 - Cholelithiasis

575-576 - Cholecystitis and cholangitis without mention  
of calculus; other diseases of gall bladder and  
bile ducts

Cholecystectomies include primary cholecystectomies only.

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table B9 includes only the major diagnosis that is recorded in the first diagnostic position.

- TABLE B1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission, Total and Females
- TABLE B2: By Hospital Service Area of Residence and Sex, Observed and Expected Number of Cases and Cases per 10,000 Person Years
- TABLE B3: By Hospital Service Area of Residence, Age Specific Discharge Rates per 10,000 Person Years, Females only
- TABLE B4: By Hospital Service Area of Residence, Probability of Having Cholecystectomy by Given Age, Females only
- TABLE B5: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age
- TABLE B6: By Hospital, Number and Percent of Cases by Year
- TABLE B7: By Hospital and Diagnosis, Number of Cases and Mean Patient Age
- TABLE B8: Number of Cases, Percent, and Cumulative Percent by Years of Patient Age and Sex
- TABLE B9: Total Number of Cases and Mean Patient Age by Major Diagnosis Explaining Admission



TABLE B1

## CHOLECYSTECTOMIES

By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission  
Total and Females  
Vermont, 1969-1971

AREA	TOTAL													
	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+...
TOTAL...	2078	38	118	151	150	137	185	214	190	206	176	184	142	187
SHEU-1	63	0	6	3	5	3	5	4	6	6	5	10	6	4
SHEU-2	73	4	4	10	10	4	5	3	9	7	6	3	4	4
SHEU-3	41	1	8	3	0	3	4	6	3	6	3	2	1	2
SHEU-4	94	3	3	9	11	3	6	10	11	7	10	9	8	4
SHEU-5	151	1	8	9	8	5	15	11	18	10	17	16	16	17
SHEU-6	240	2	11	15	15	14	17	22	16	29	15	29	25	30
SHEU-7	102	4	7	4	5	9	4	15	9	12	8	9	8	8
SHEU-8	93	4	5	11	5	7	5	9	8	9	9	13	2	6
SHEU-9	98	0	4	6	3	5	9	9	14	15	11	9	6	7
SHEU-10	332	2	14	22	24	19	27	38	22	39	30	26	20	49
SHEU-11	235	6	14	23	18	12	21	23	27	26	19	17	14	15
SHEU-12	525	11	34	33	46	51	62	58	41	39	41	38	31	40
SHEU-13	31	0	0	3	0	2	5	6	6	2	2	3	1	1

AREA	FEMALES													
	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+...
TOTAL...	1659	37	114	141	138	120	150	165	152	156	130	130	93	133
SHEU-1	48	0	6	2	3	3	5	2	5	4	5	6	4	3
SHEU-2	58	4	4	9	10	3	4	2	6	5	3	3	2	3
SHEU-3	33	1	7	3	0	3	3	3	3	5	2	2	0	1
SHEU-4	81	3	3	9	9	3	5	7	9	8	8	9	7	4
SHEU-5	116	1	8	9	8	5	12	8	10	8	13	14	7	13
SHEU-6	185	2	11	15	15	10	16	18	15	22	12	18	13	18
SHEU-7	85	4	7	3	5	7	4	12	8	11	5	6	8	5
SHEU-8	76	4	5	10	5	6	4	7	5	7	8	9	2	4
SHEU-9	79	0	4	5	3	4	6	8	13	10	8	8	5	5
SHEU-10	257	1	13	19	21	17	25	29	18	28	20	14	14	38
SHEU-11	197	6	13	23	17	12	15	21	22	19	14	14	10	11
SHEU-12	419	11	33	31	42	45	48	42	33	31	30	25	20	28
SHEU-13	25	0	0	3	0	2	3	6	5	1	2	2	1	0

TABLE B2

## CHOLECYSTECTOMIES

By Hospital Service Area of Residence and Sex  
Observed and Expected Number of Cases and Cases per 10,000 Person Years  
Vermont, 1969-1971

TOTAL									
Number of Cases			Cases Per 10,000 Per Year				Chi.Sq.	Rank	
Person Years	Obs #	Exp #	Ratio	Crude Rate	Age Adj. Rate	S.D.			
Area									
TOTAL...	0.	2078	2078.0	1.00	18.5	20.1	.4	.0	0
SHEU-1	1.	34317	66.8	.94	18.4	18.8	2.3	.2	5
SHEU-2	2.	58674	73	.63	12.4	13.0	1.8	16.2	2
SHEU-3	3.	22581	41	.94	18.2	19.8	2.8	.2	8
SHEU-4	4.	49023	94	.96	19.2	19.7	2.0	.1	7
SHEU-5	5.	70965	151	1.08	21.3	21.6	1.6	.9	10
SHEU-6	6.	96999	240	1.36	24.7	28.1	1.5	22.5	12
SHEU-7	7.	32703	102	1.72	31.2	37.2	2.5	30.5	13
SHEU-8	8.	60852	93	.81	15.3	16.3	1.8	4.1	4
SHEU-9	9.	49647	98	.97	19.7	19.3	1.9	.1	6
SHEU-10	10.	149538	332	1.14	22.2	23.2	1.1	6.0	11
SHEU-11	11.	154518	235	.80	15.2	15.9	1.1	11.9	3
SHEU-12	12.	312570	525	1.00	16.8	20.3	.9	.0	9
SHEU-13	13.	28749	31	.60	10.8	11.6	2.5	8.4	1
MALES									
TOTAL...	0.	419	419.0	1.00	7.7	7.9	.4	.0	0
SHEU-1	1.	546376	15	1.03	8.7	8.4	1.8	.0	8
SHEU-2	2.	28716	15	.59	5.2	5.0	1.4	4.1	2
SHEU-3	3.	10935	8	.87	7.3	7.2	1.9	.1	7
SHEU-4	4.	23478	13	.67	5.5	5.4	1.4	2.2	4
SHEU-5	5.	34131	35	1.20	10.3	9.4	1.4	1.2	10
SHEU-6	6.	47736	55	1.47	11.5	11.7	1.2	8.4	13
SHEU-7	7.	16278	17	1.40	10.4	11.3	2.0	2.0	12
SHEU-8	8.	29931	17	.69	5.7	5.5	1.5	2.4	5
SHEU-9	9.	24573	19	.87	7.7	6.9	1.7	.4	6
SHEU-10	10.	71304	75	1.27	10.5	10.2	1.0	4.3	11
SHEU-11	11.	74676	38	.64	5.1	5.0	1.0	7.8	3
SHEU-12	12.	153735	106	1.10	6.9	8.8	.8	1.0	9
SHEU-13	13.	14136	6	.57	4.2	4.5	1.8	1.9	1
FEMALES									
TOTAL...	0.	1659	1659.0	1.00	28.9	32.9	.8	.0	0
SHEU-1	1.	574260	48	.94	28.1	30.7	4.3	.2	5
SHEU-2	2.	29958	58	.64	19.4	21.2	3.2	11.7	2
SHEU-3	3.	11646	33	.95	28.3	32.9	4.9	.1	7
SHEU-4	4.	25545	81	1.03	31.7	34.7	3.5	.1	10
SHEU-5	5.	36834	116	1.04	31.5	33.8	2.9	.1	9
SHEU-6	6.	49263	185	1.34	37.6	46.6	2.6	15.8	12
SHEU-7	7.	16425	85	1.82	51.8	69.5	4.5	31.2	13
SHEU-8	8.	30921	76	.85	24.6	27.6	3.3	2.0	4
SHEU-9	9.	25074	79	1.01	31.5	33.0	3.5	.0	8
SHEU-10	10.	78234	257	1.10	32.9	36.6	2.0	2.4	11
SHEU-11	11.	79842	197	.83	24.7	26.9	2.0	6.4	3
SHEU-12	12.	158835	419	.98	26.4	32.3	1.5	.2	6
SHEU-13	13.	14613	25	.61	17.1	19.1	4.2	6.2	1
* p<.05 ** p<.02 *** p<.01									

\* p<.05  
\*\* p<.02  
\*\*\* p<.01

TABLE B3

## CHOLECYSTECTOMIES

By Hospital Service Area of Residence  
Age Specific Discharge Rates per 10,000 Person Years  
Females Only  
Vermont, 1969-1971

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	28.9	1.7	27.6	37.8	46.6	43.0	50.8	57.3	58.2	66.5	62.3	73.5	63.7	57.8
SHEU-1	28.1	.0	50.1	20.9	34.9	36.5	56.5	22.4	64.6	47.5	72.1	99.2	86.7	37.4
SHEU-2	19.4	3.8	21.1	56.8	69.1	20.1	25.1	12.4	41.5	38.0	23.9	24.9	18.9	18.9
SHEU-3	28.3	2.4	103.7	47.2	.0	60.2	53.9	47.4	52.0	105.8	45.6	48.2	.0	17.8
SHEU-4	31.7	3.5	14.9	56.2	74.4	26.2	38.1	55.1	77.2	43.9	72.5	102.1	92.8	31.0
SHEU-5	31.5	.8	34.2	40.6	46.3	29.1	59.2	43.4	59.6	48.4	80.2	97.8	62.8	71.8
SHEU-6	37.6	1.0	32.0	50.5	67.1	43.7	63.4	77.8	69.8	111.0	82.2	123.0	108.5	108.6
SHEU-7	51.8	6.4	55.6	26.5	54.8	89.1	58.6	163.2	111.1	194.0	100.3	168.5	277.7	116.2
SHEU-8	24.6	3.4	26.7	59.5	35.4	41.4	25.9	43.0	32.9	53.3	64.4	81.6	22.0	30.1
SHEU-9	31.5	.0	24.6	34.7	24.5	36.1	45.1	46.1	82.5	74.4	78.6	115.0	77.2	43.4
SHEU-10	32.9	.4	23.5	40.7	55.4	48.8	63.0	72.8	46.8	82.9	67.5	57.2	60.1	100.9
SHEU-11	24.7	2.1	24.8	45.2	40.3	29.6	37.9	53.5	59.9	51.0	42.5	50.3	45.1	31.6
SHEU-12	26.4	1.7	25.2	25.1	45.6	54.1	58.2	56.4	52.1	59.8	63.6	65.2	68.7	62.3
SHEU-13	17.1	.0	.0	31.4	.0	28.6	33.8	80.9	80.5	18.8	34.6	42.3	27.0	.0

TABLE B4

## CHOLECYSTECTOMIES

By Hospital Service Area of Residence  
Probability of Having Cholecystectomy by Given Age  
Females Only  
Vermont, 1969-1971

AREA	TOTAL	15	20	25	30	35	40	45	50	55	60	65	70	75
AREA...	.0000	.0000	.0034	.0171	.0355	.0577	.0778	.1009	.1263	.1514	.1791	.2043	.2330	.2570
SHEU-1	.0000	.0000	.0000	.0248	.0349	.0516	.0687	.0946	.1047	.1332	.1535	.1835	.2230	.2560
SHEU-2	.0000	.0000	.0075	.0179	.0454	.0779	.0871	.0985	.1040	.1224	.1390	.1492	.1597	.1676
SHEU-3	.0000	.0000	.0047	.0550	.0771	.0771	.1044	.1283	.1487	.1705	.2133	.2310	.2493	.2493
SHEU-4	.0000	.0000	.0070	.0143	.0416	.0766	.0886	.1058	.1301	.1630	.1812	.2103	.2497	.2837
SHEU-5	.0000	.0000	.0016	.0185	.0382	.0602	.0737	.1007	.1200	.1458	.1663	.1991	.2373	.2609
SHEU-6	.0000	.0000	.0021	.0179	.0424	.0740	.0940	.1223	.1558	.1847	.2288	.2598	.3040	.3407
SHEU-7	.0000	.0000	.0128	.0399	.0525	.0781	.1183	.1429	.2101	.2528	.3219	.3551	.4072	.4842
SHEU-8	.0000	.0000	.0067	.0199	.0486	.0653	.0863	.0962	.1154	.1298	.1527	.1795	.2124	.2210
SHEU-9	.0000	.0000	.0000	.0122	.0292	.0411	.0582	.0792	.1002	.1366	.1681	.2001	.2448	.2734
SHEU-10	.0000	.0000	.0007	.0124	.0323	.0587	.0814	.1099	.1417	.1616	.1956	.2223	.243	.2666
SHEU-11	.0000	.0000	.0041	.0164	.0384	.0575	.0714	.0888	.1129	.1390	.1607	.1784	.1988	.2166
SHEU-12	.0000	.0000	.0034	.0159	.0282	.0501	.0754	.1019	.1269	.1493	.1744	.2003	.2259	.2521
SHEU-13	.0000	.0000	.0000	.0000	.0156	.0156	.0296	.0468	.0837	.1198	.1281	.1430	.1609	.1722



TABLE B5

## CHOLECYSTECTOMIES

By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Hospital Stay and Mean Adjusted by Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)				
			Crude Mean	S.D.	Total	Age-Adjusted	
						Males	Females
0.	2622	35026	13.36	8.57	13.36	14.98	12.94
1.	535	6449	12.05	7.46	12.27	14.79	11.59
2.	124	1859	14.99	10.19	15.51	20.57	14.98
3.	134	2040	15.22	10.62	14.45	14.77	14.49
4.	119	1695	14.24	8.08	13.01	14.26	13.01
5.	92	1043	11.34	5.27	11.48	11.83	11.35
6.	74	841	11.36	4.74	12.42	14.88	11.86
7.	10	170	17.00	9.98	19.40	17.00	18.65
8.	126	1537	12.20	6.43	12.40	14.92	12.03
9.	215	2507	11.66	6.65	12.41	14.83	11.81
10.	62	796	12.84	6.41	12.83	15.52	11.42
11.	6	75	12.50	4.31	11.92	9.00	12.79
12.	93	1260	13.55	7.95	14.56	14.72	14.50
13.	59	796	13.49	13.27	14.00	17.48	13.75
14.	128	1320	14.22	12.06	14.05	12.21	13.94
15.	207	3242	15.66	10.39	14.71	17.16	14.67
16.	392	5583	14.24	9.02	13.79	14.76	13.61
17.	36	383	10.64	5.13	11.26	11.82	11.31
18.	208	2885	13.87	6.59	14.08	17.13	13.12
19.	2	45	22.50	4.50	22.49	27.00	18.00

TABLE B6

## CHOLECYSTECTOMIES

By Hospital

Number and Percent of Cases by Year  
Vermont, 1969-1971

HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.								
1.	2624	898	858	868	100.0	34.2	32.7	33.1
2.	535	205	177	153	100.0	38.3	33.1	28.6
3.	125	22	44	59	100.0	17.6	35.2	47.2
4.	134	43	50	41	100.0	32.1	37.3	30.6
5.	119	41	35	43	100.0	34.5	29.4	36.1
6.	92	36	23	33	100.0	39.1	25.0	35.9
7.	74	37	14	23	100.0	50.0	18.9	31.1
8.	10	5	3	2	100.0	50.0	30.0	20.0
9.	126	47	43	36	100.0	37.3	34.1	28.6
10.	215	60	79	76	100.0	27.9	36.7	36.3
11.	62	23	18	21	100.0	37.1	29.0	33.9
12.	6	3	0	3	100.0	50.0	.0	50.0
13.	93	28	33	32	100.0	30.1	35.5	34.4
14.	59	14	20	25	100.0	23.7	33.9	42.4
15.	128	47	47	34	100.0	36.7	36.7	26.6
17.	207	74	59	74	100.0	35.7	28.5	35.7
18.	392	119	140	133	100.0	30.4	35.7	33.9
19.	37	13	13	11	100.0	35.1	35.1	29.7
20.	208	81	58	69	100.0	38.9	27.9	33.2
21.	2	0	2	0	100.0	.0	100.0	.0

TABLE B7

## CHOLECYSTECTOMIES

By Hospital and Diagnosis  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Total	Number of Cases			Total	Mean Age of Patient			Other Dx
		575-576	574	150-159		574	575-576	150-159	
0.	2624	304	2289	8	51.01	50.58	53.45	73.12	53.87
1.	535	62	468	2	49.16	48.80	51.52	65.00	46.33
2.	125	22	101	1	51.38	50.58	52.95	75.00	73.00
3.	134	15	119	0	54.23	54.02	55.93	.00	.00
4.	119	33	84	0	54.02	54.31	52.24	.00	71.00
5.	92	14	77	1	48.41	46.53	56.57	79.00	.00
6.	74	1	73	0	45.69	45.30	74.00	.00	.00
7.	10	1	9	0	49.20	49.00	51.00	.00	.00
8.	126	24	102	0	49.84	48.87	53.96	.00	.00
9.	215	20	194	1	47.79	48.01	45.00	62.00	.00
10.	62	1	60	0	52.00	51.92	54.00	.00	55.00
11.	6	0	6	0	57.00	57.00	.00	.00	.00
12.	93	6	87	0	52.57	52.08	59.67	.00	.00
13.	59	5	54	0	47.07	46.56	52.60	.00	.00
14.	128	34	94	0	50.47	49.05	54.38	.00	.00
15.	207	13	192	1	55.12	54.62	59.31	82.00	69.00
17.	392	20	357	2	53.44	52.92	61.05	78.50	52.31
18.	37	11	26	0	45.57	42.65	52.45	.00	.00
19.	208	22	184	0	51.25	51.40	50.95	.00	40.50
20.	2	0	2	0	71.50	71.50	.00	.00	.00
21.									

H-ICDA Code Numbers:

575-576 - Cholecystitis and Cholangitis, other diseases of gallbladder and bile ducts

574 - Cholelithiasis

150-159 - Malignant neoplasm of digestive organs

# CHOLECYSTECTOMIES

Number of Cases, Percent, and Cumulative Percent  
By Years of Patient Age and Sex  
Vermont, 1969-1971

Year of Age	Number of Cases			Percent			Cumulative Percent		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
0.	2625	545	2080	100.00	20.76	79.24	.00	.00	.00
14.	2	0	2	100.00	.00	100.00	.08	.00	.10
15.	2	0	2	100.00	.00	100.00	.15	.00	.19
16.	5	0	5	100.00	.00	100.00	.34	.00	.43
17.	6	0	6	100.00	.00	100.00	.57	.00	.72
18.	13	0	13	100.00	.00	100.00	1.07	.00	1.35
19.	14	1	13	100.00	7.14	92.86	1.60	.18	1.97
20.	26	0	26	100.00	.00	100.00	2.59	.18	3.22
21.	26	0	26	100.00	.00	100.00	3.58	.18	4.47
22.	28	1	27	100.00	3.57	96.43	4.65	.37	5.77
23.	36	1	35	100.00	2.78	97.22	6.02	.56	7.45
24.	26	1	24	100.00	7.69	92.31	7.01	.92	8.61
25.	38	1	37	100.00	2.63	97.37	8.46	1.10	10.38
26.	37	3	34	100.00	8.11	91.89	9.87	1.65	12.02
27.	33	2	31	100.00	6.06	93.94	11.12	2.02	13.51
28.	30	2	28	100.00	6.67	93.33	12.27	2.39	14.86
29.	44	6	38	100.00	13.64	86.36	13.94	3.49	16.68
30.	45	4	41	100.00	8.89	91.11	15.66	4.22	18.65
31.	34	4	30	100.00	11.76	88.24	16.95	4.95	20.10
32.	36	0	36	100.00	.00	100.00	18.32	4.95	21.83
33.	42	2	40	100.00	4.76	95.24	19.92	5.32	23.75
34.	33	4	29	100.00	12.12	87.88	21.18	6.06	25.14
35.	32	6	26	100.00	18.75	81.25	22.40	7.16	26.39
36.	24	6	18	100.00	25.00	75.00	23.31	8.26	27.26
37.	31	5	26	100.00	16.13	83.87	24.50	9.17	28.51
38.	41	1	40	100.00	2.44	97.56	26.06	9.36	30.43
39.	38	4	34	100.00	10.53	89.47	27.50	10.09	32.07
40.	50	10	40	100.00	20.00	80.00	29.41	11.53	33.99
41.	51	9	42	100.00	17.65	82.35	31.35	13.58	36.01
42.	42	7	35	100.00	16.67	83.33	32.95	14.86	37.69
43.	48	10	38	100.00	20.83	79.17	34.78	16.70	39.52
44.	40	14	26	100.00	35.00	65.00	36.30	19.27	40.77
45.	51	6	45	100.00	11.76	88.24	38.25	20.37	42.93
46.	56	11	45	100.00	19.64	80.36	40.38	22.39	45.10
47.	45	8	37	100.00	17.78	82.22	42.10	23.85	46.87
48.	50	14	36	100.00	28.00	72.00	44.00	26.42	48.61
49.	62	17	45	100.00	27.42	72.58	46.36	29.54	50.77
50.	41	5	36	100.00	12.20	87.80	47.92	30.46	52.50
51.	48	12	36	100.00	25.00	75.00	49.75	32.66	54.23
52.	57	7	50	100.00	12.28	87.72	51.92	33.94	56.63
53.	55	19	36	100.00	34.55	65.45	54.02	37.43	58.37
54.	48	9	39	100.00	18.75	81.25	55.85	39.08	60.24
55.	47	11	36	100.00	23.40	76.60	57.64	41.10	61.97

TABLE B8 CONTINUED: Cholecystectomies, Number of Cases, Percent, and Cumulative Percent  
By Years of Patient Age and Sex, Vermont, 1969-1971

Year of Age	Total	Number of Cases		Total	Percent		Total	Cumulative Percent	
		Males	Females		Males	Females		Males	Females
56.	57	14	43	100.00	24.56	75.44	59.81	43.67	64.04
57.	49	14	35	100.00	28.57	71.43	61.68	46.24	65.72
58.	45	14	31	100.00	31.11	68.89	63.39	48.81	67.21
59.	66	13	53	100.00	19.70	80.30	65.90	51.19	69.76
60.	41	13	28	100.00	31.71	68.29	67.47	53.58	71.11
61.	43	16	27	100.00	37.21	62.79	69.10	56.51	72.40
62.	54	15	39	100.00	27.78	72.22	71.16	59.27	74.28
63.	58	14	44	100.00	24.14	75.86	73.37	61.83	76.39
64.	46	8	38	100.00	17.39	82.61	75.12	63.30	78.22
65.	50	11	39	100.00	22.00	78.00	77.03	65.32	80.10
66.	55	11	35	100.00	36.36	63.64	79.12	68.99	81.78
67.	44	20	27	100.00	38.64	61.36	80.80	72.11	83.08
68.	43	17	32	100.00	25.58	74.42	82.44	74.13	84.61
69.	48	11	39	100.00	18.75	81.25	84.27	75.78	86.49
70.	35	13	22	100.00	37.14	62.86	85.60	78.16	87.55
71.	29	16	13	100.00	55.17	44.83	86.70	81.10	88.17
72.	51	13	38	100.00	25.49	74.51	88.65	83.49	90.00
73.	31	9	22	100.00	29.03	70.97	89.83	85.14	91.06
74.	27	10	17	100.00	37.04	62.96	90.86	86.97	91.87
75.	30	9	21	100.00	30.00	70.00	92.00	88.62	92.88
76.	35	13	22	100.00	37.14	62.86	93.33	91.01	93.94
77.	25	9	16	100.00	36.00	64.00	94.29	92.66	94.71
78.	27	6	21	100.00	22.22	77.78	95.31	93.76	95.72
79.	22	7	15	100.00	31.82	68.18	96.15	95.05	96.44
80.	15	6	9	100.00	40.00	60.00	96.72	96.15	96.87
81.	22	6	16	100.00	27.27	72.73	97.56	97.25	97.64
82.	9	1	8	100.00	11.11	88.89	97.90	97.43	98.03
83.	11	6	5	100.00	54.55	45.45	98.32	98.53	98.27
84.	11	4	7	100.00	36.36	63.64	98.74	99.27	98.61
85.	5	0	5	100.00	.00	100.00	98.93	99.27	98.85
86.	7	0	6	100.00	14.29	85.71	99.20	99.45	99.13
87.	8	1	7	100.00	25.00	75.00	99.50	99.82	99.42
88.	2	0	2	100.00	.00	100.00	99.58	99.82	99.52
89.	2	0	2	100.00	.00	100.00	99.66	99.82	99.61
90.	3	0	3	100.00	.00	100.00	99.77	99.82	99.76
91.	3	0	3	100.00	.00	100.00	99.89	99.82	99.90
92.	1	0	1	100.00	.00	100.00	99.92	99.82	99.95
93.	1	1	0	100.00	100.00	.00	99.96	100.00	99.95
94.	1	0	1	100.00	.00	100.00	100.00	100.00	100.00

TABLE B9

## CHOLECYSTECTOMIES

Total Number of Cases and Mean Patient Age  
By Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #)		Number of		Cumulative		Mean		S.D.		(H-ICDA Code #)		Number of		Cumulative		Mean		S.D.					
Major	Diagnosis	Cases	Percent	Percent	Patient Age	Patient Age	S.D.	Major	Diagnosis	Cases	Percent	Percent	Patient Age	Patient Age	S.D.	Major	Diagnosis	Cases	Percent	Patient Age	Patient Age	S.D.	
0.		2620	100.00	.00	51.0	51.0	17.2	572.		1	.04	3.36	77.0	77.0	.0	572.		1	.04	3.36	77.0	77.0	.0
9.		1	.04	.04	66.0	66.0	.0	573.		1	.04	3.40	77.0	77.0	.0	573.		1	.04	3.40	77.0	77.0	.0
155.		2	.08	.11	79.5	79.5	.7	574.		2215	84.54	87.94	50.3	50.3	17.1	574.		2215	84.54	87.94	50.3	50.3	17.1
156.		3	.11	.23	65.3	65.3	15.3	575.		268	10.23	98.17	52.4	52.4	17.4	575.		268	10.23	98.17	52.4	52.4	17.4
157.		2	.08	.31	76.5	76.5	2.1	576.		17	.65	98.82	55.4	55.4	15.8	576.		17	.65	98.82	55.4	55.4	15.8
173.		1	.04	.34	68.0	68.0	.0	577.		9	.34	99.16	56.3	56.3	18.0	577.		9	.34	99.16	56.3	56.3	18.0
197.		1	.04	.38	70.0	70.0	.0	590.		1	.04	99.20	49.0	49.0	.0	590.		1	.04	99.20	49.0	49.0	.0
211.		2	.08	.46	46.5	46.5	9.2	593.		2	.08	99.27	82.5	82.5	2.1	593.		2	.08	99.27	82.5	82.5	2.1
220.		1	.04	.50	56.0	56.0	.0	595.		1	.04	99.31	51.0	51.0	.0	595.		1	.04	99.31	51.0	51.0	.0
250.		5	.19	.69	63.0	63.0	16.5	600.		1	.04	99.35	66.0	66.0	.0	600.		1	.04	99.35	66.0	66.0	.0
272.		2	.08	.76	25.5	25.5	3.5	610.		1	.04	99.39	48.0	48.0	.0	610.		1	.04	99.39	48.0	48.0	.0
277.		3	.11	.88	56.3	56.3	14.6	626.		1	.04	99.43	30.0	30.0	.0	626.		1	.04	99.43	30.0	30.0	.0
283.		1	.04	.92	56.0	56.0	.0	692.		1	.04	99.47	58.0	58.0	.0	692.		1	.04	99.47	58.0	58.0	.0
310.		2	.08	.99	39.5	39.5	7.8	696.		1	.04	99.50	55.0	55.0	.0	696.		1	.04	99.50	55.0	55.0	.0
356.		1	.04	1.03	44.0	44.0	.0	714.		1	.04	99.54	72.0	72.0	.0	714.		1	.04	99.54	72.0	72.0	.0
357.		1	.04	1.07	55.0	55.0	.0	735.		1	.04	99.58	65.0	65.0	.0	735.		1	.04	99.58	65.0	65.0	.0
401.		2	.08	1.15	46.0	46.0	.0	738.		1	.04	99.62	75.0	75.0	.0	738.		1	.04	99.62	75.0	75.0	.0
402.		1	.04	1.18	61.0	61.0	.0	751.		1	.04	99.66	29.0	29.0	.0	751.		1	.04	99.66	29.0	29.0	.0
410.		2	.08	1.26	73.0	73.0	4.2	756.		1	.04	99.69	32.0	32.0	.0	756.		1	.04	99.69	32.0	32.0	.0
411.		1	.04	1.30	67.0	67.0	.0	785.		4	.15	99.85	43.3	43.3	10.2	785.		4	.15	99.85	43.3	43.3	10.2
412.		2	.08	1.37	64.5	64.5	17.7	786.		2	.08	99.92	70.0	70.0	18.4	786.		2	.08	99.92	70.0	70.0	18.4
427.		2	.08	1.45	73.5	73.5	13.4	792.		1	.04	99.96	77.0	77.0	.0	792.		1	.04	99.96	77.0	77.0	.0
438.		1	.04	1.49	65.0	65.0	.0	796.		1	.04	100.00	71.0	71.0	.0	796.		1	.04	100.00	71.0	71.0	.0
440.		2	.08	1.56	78.5	78.5	12.0																
450.		1	.04	1.60	78.0	78.0	.0																
451.		1	.04	1.64	69.0	69.0	.0																
485.		3	.11	1.76	58.3	58.3	10.7																
486.		4	.15	1.91	78.7	78.7	5.5																
489.		2	.08	1.98	67.5	67.5	3.5																
491.		2	.08	2.06	44.0	44.0	19.8																
517.		1	.04	2.10	39.0	39.0	.0																
527.		1	.04	2.14	66.0	66.0	.0																
532.		8	.31	2.44	60.6	60.6	17.2																
533.		1	.04	2.48	54.0	54.0	.0																
550.		11	.42	2.90	51.1	51.1	14.9																
551.		4	.15	3.05	63.5	63.5	7.4																
560.		2	.08	3.13	59.5	59.5	17.7																
562.		2	.08	3.21	73.5	73.5	6.4																
571.		3	.11	3.32	72.0	72.0	3.0																

H-ICDA Code Numbers:  
574 - Cholelithiasis  
575 - Cholecystitis and cholangitis  
576 - Other diseases of gallbladder and bile ducts

## H-ICDA Code Numbers:

- 574 - Cholelithiasis  
575 - Cholecystitis and cholangitis  
576 - Other diseases of gallbladder and bile ducts



## APPENDIX C:

## REPAIR OF INGUINAL HERNIA

1969-1971

The H-ICDA Code for Repair of Inguinal Hernia is defined as follows:  
57.0 - Repair of inguinal hernia, except recurrent

The H-ICDA Codes for diagnoses are as follows:  
550 - Inguinal hernia without mention of obstruction  
552 - Inguinal hernia with obstruction  
520-577 - Diseases of the digestive system (excludes 550,552)

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table C10 includes only the major diagnosis that is recorded in the first diagnostic position.

- TABLE C 1: By Hospital Service Area of Residence and Number of Cases by Patient Age at Admission, Males and Females
- TABLE C 2: By Hospital Service Area of Residence, Age Specific Discharge Rates Per 10,000 Person Years, Males Only
- TABLE C 3: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years, Males and Females
- TABLE C 4: By Hospital Service Area of Residence, Mean Days of Hospital Stay and Mean Adjusted by Patient Age, Males and Females
- TABLE C 5: By Hospital Service Area of Residence, Patient Days of Hospitalization Per 10,000 Person Years, Males and Females
- TABLE C 6: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Stay and Mean Adjusted by Age, Males and Females
- TABLE C 7: Number of Cases Per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons
- TABLE C 8: By Hospital, Number and Percent of Cases by Year, Males and Females
- TABLE C 9: By Hospital and Diagnosis, Number of Cases and Mean Patient Age, Males and Females
- TABLE C10: Total Number of Cases and Mean Patient Age By Major Diagnosis Explaining Admission





TABLE C1

## REPAIR OF INGUINAL HERNIA

By Hospital Service Area of Residence and  
Number of Cases By Patient Age at Admission  
Males and Females  
Vermont, 1969-1971

AREA	TOTAL...	MALES											85+
		<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84			
TOTAL...	2480	440	225	156	199	219	367	405	312	137	20		
SHED-1	87	15	9	5	10	9	9	12	10	6	2		
SHED-2	117	10	6	8	9	11	18	26	15	12	2		
SHED-3	44	6	2	2	1	5	7	7	8	6	0		
SHED-4	93	14	7	6	7	8	21	12	11	6	1		
SHED-5	189	28	16	9	10	19	19	39	39	8	2		
SHED-6	218	31	19	20	11	21	42	34	30	8	2		
SHED-7	87	11	7	5	11	8	16	17	10	1	1		
SHED-8	137	21	14	12	15	13	23	17	14	5	3		
SHED-9	125	12	10	6	7	9	28	28	19	4	2		
SHED-10	342	59	28	18	26	20	48	65	48	29	1		
SHED-11	369	72	32	22	34	30	34	70	44	28	3		
SHED-12	601	148	69	42	51	61	88	69	52	20	1		
SHED-13	71	13	6	1	7	5	14	9	12	4	0		
FEMALES													
TOTAL...	322	85	50	22	22	27	41	23	30	15	7		
SHED-1	17	3	2	0	3	4	1	0	4	0	0		
SHED-2	15	5	2	2	2	1	0	2	1	0	0		
SHED-3	4	1	1	0	0	0	1	0	1	0	0		
SHED-4	8	2	2	0	0	2	3	1	0	0	0		
SHED-5	23	6	0	2	4	2	3	2	1	3	0		
SHED-6	23	7	6	0	0	4	3	1	1	1	0		
SHED-7	12	2	2	4	1	1	0	0	1	1	0		
SHED-8	14	2	2	1	2	2	1	1	3	2	0		
SHED-9	16	1	2	1	1	2	1	2	2	0	1		
SHED-10	48	6	5	4	2	7	9	5	7	2	3		
SHED-11	47	11	8	2	3	4	8	2	3	2	1		
SHED-12	83	32	15	3	4	2	11	7	5	2	2		
SHED-13	12	4	3	2	0	0	0	0	1	2	0		

REPAIR OF INGUINAL HERNIA  
By Hospital Service Area of Residence  
Age Specific Discharge Rates Per 10,000 Person Years  
Males Only  
Vermont, 1969-1971

TABLE C2

AREA	TOTAL...	<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+
TOTAL...	0	45.3	19.1	19.1	31.3	41.0	73.7	104.6	138.9	152.0	120.3
SHED-1	1	50.4	25.8	19.3	53.8	57.4	59.2	95.0	119.8	172.1	266.9
SHED-2	2	40.7	10.0	18.1	30.3	37.7	63.4	105.8	97.9	170.8	161.5
SHED-3	3	40.2	8.1	13.3	8.5	47.6	61.0	73.1	150.4	251.1	130.9
SHED-4	4	39.6	15.8	15.9	26.1	32.9	89.5	66.4	92.9	128.4	218.1
SHED-5	5	55.4	23.1	19.1	27.4	56.9	63.2	140.9	238.0	128.2	152.8
SHED-6	6	45.7	17.9	27.4	21.4	47.4	96.1	103.7	144.2	89.8	160.9
SHED-7	7	53.4	19.6	21.0	53.2	52.2	121.2	161.3	165.2	55.7	261.0
SHED-8	8	45.8	21.6	26.3	50.9	48.0	80.9	82.2	96.5	83.6	195.9
SHED-9	9	50.9	20.4	17.9	27.0	39.6	92.9	123.1	199.4	213.1	44.9
SHED-10	10	48.0	18.6	17.9	33.6	29.1	68.9	112.8	149.4	229.2	141.5
SHED-11	11	49.4	20.0	21.7	40.3	40.3	51.4	121.0	135.9	117.5	26.6
SHED-12	12	39.1	19.7	16.9	24.7	39.4	70.3	82.1	112.3	225.3	10
SHED-13	13	50.2	19.5	4.6	41.6	36.7	107.3	104.2	211.7		

TABLE C3

## REPAIR OF INGUINAL HERNIA

By Hospital Service Area of Residence  
 Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
 Males and Females  
 Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases per 10,000 per year			S.D.	Chi.Sq.	Rank
		Obs #	Exp #	Ratio	Crude	Age-Adjusted				
					Rate	Rate				
MALES										
TOTAL...	0.	2480	2480.0	1.00	45.3	53.5	1.0	.0	0	
SHED-1	1.	87	80.5	1.08	50.4	59.3	5.5	.5	10	
SHED-2	2.	117	135.8	.86	40.7	44.3	4.2	2.6	2	
SHED-3	3.	44	51.3	.86	40.2	44.4	6.8	1.0	3	
SHED-4	4.	93	109.7	.85	39.6	44.1	4.7	2.5	1	
SHED-5	5.	189	163.2	1.16	55.4	63.2	3.8	4.1	12	
SHED-6	6.	218	218.9	1.00	45.7	53.4	3.3	.0	6	
SHED-7	7.	87	73.6	1.18	53.4	65.4	5.8	2.4	13	
SHED-8	8.	137	139.0	.99	45.8	53.3	4.2	.0	5	
SHED-9	9.	125	118.1	1.06	50.9	56.3	4.6	.4	8	
SHED-10	10.	342	332.2	1.03	48.0	55.2	2.7	.3	7	
SHED-11	11.	369	344.8	1.07	49.4	58.0	2.6	1.7	9	
SHED-12	12.	601	649.9	.92	39.1	47.5	2.0	3.7	4	
SHED-13	13.	71	63.0	1.13	50.2	62.1	6.2	1.0	11	
FEMALES										
TOTAL...	0.	322	322.0	1.00	5.6	5.7	.3	.0	0	
SHED-1	1.	17	9.5	1.79	10.0	10.5	1.7	6.0	13	
SHED-2	2.	15	16.5	.91	5.0	5.5	1.3	.1	6	
SHED-3	3.	4	6.6	.60	3.4	3.3	1.8	1.0	2	
SHED-4	4.	8	14.4	.56	3.1	3.3	1.2	2.8	1	
SHED-5	5.	23	20.8	1.11	6.2	6.3	1.1	.2	9	
SHED-6	6.	23	28.1	.82	4.7	4.6	1.0	.9	3	
SHED-7	7.	12	9.0	1.33	7.3	7.5	1.7	1.0	11	
SHED-8	8.	14	17.4	.81	4.5	4.6	1.3	.7	4	
SHED-9	9.	16	13.9	1.15	6.4	6.6	1.5	.3	10	
SHED-10	10.	48	43.8	1.09	6.1	6.1	.9	.4	8	
SHED-11	11.	47	45.0	1.04	5.9	6.0	.8	.1	7	
SHED-12	12.	83	88.7	.94	5.2	5.3	.6	.4	5	
SHED-13	13.	12	8.2	1.46	8.2	8.2	1.5	1.7	12	

TABLE C4

## REPAIR OF INGUINAL HERNIA

By Hospital Service Area of Residence  
Mean Days of Hospital Stay and Mean Adjusted by Patient Age  
Males and Females  
Vermont, 1969-1971

Area	MALES				FEMALES					
	Number of Cases	Total Days	Crude Mean	S.D.	Age-Adjusted Mean	Number of Cases	Total Days	Crude Mean	S.D.	Age-Adjusted Mean
TOTAL...	2480	14914	6.01	5.68	6.01	322	1882	5.84	9.66	5.84
SHED-1	87	590	6.78	4.16	6.53	17	106	6.24	3.02	5.45
SHED-2	117	693	5.92	4.45	5.48	15	212	14.13	36.42	13.70
SHED-3	44	339	7.70	4.36	7.03	4	26	6.50	4.56	5.03
SHED-4	93	568	6.11	3.24	5.90	8	44	5.50	3.46	4.19
SHED-5	189	1312	6.94	6.88	6.66	23	134	5.83	3.52	5.47
SHED-6	218	1593	7.31	4.80	7.30	23	121	5.26	3.15	5.90
SHED-7	87	524	6.02	3.72	5.95	12	61	5.08	3.62	4.71
SHED-8	137	798	5.82	3.43	5.88	14	105	7.50	5.33	5.51
SHED-9	125	987	7.90	4.99	7.73	16	137	8.56	6.95	6.35
SHED-10	342	2620	7.66	10.19	7.24	48	389	8.10	9.25	6.52
SHED-11	369	2008	5.44	4.10	5.35	47	210	4.47	3.20	4.72
SHED-12	601	2525	4.20	3.45	4.84	83	299	3.60	3.89	4.31
SHED-13	71	357	5.03	4.61	4.94	12	38	3.17	2.79	2.76

TABLE C5

## REPAIR OF INGUINAL HERNIA

By Hospital Service Area of Residence  
 Patient Days of Hospitalization Per 10,000 Person Years  
 Males and Females  
 Vermont, 1969-1971

Area	Person Years	Number of Patient Days				Days per 10,000 per year	
		MALES		FEMALES		Crude Rate	Age- Adjusted
		Obs #	Exp #	Obs #	Exp #	Ratio	
TOTAL...	0*	546876	14914	14914.0	1.00	272.7	272.7
SHED-1	1*	17247	590	507.0	1.16	342.1	326.3
SHED-2	2*	28716	693	867.5	.80	241.3	219.5
SHED-3	3*	10935	339	319.3	1.06	310.0	286.8
SHED-4	4*	23478	568	679.1	.84	241.9	229.6
SHED-5	5*	34131	1312	1014.4	1.29	384.4	348.8
SHED-6	6*	47736	1593	1327.5	1.20	333.7	329.4
SHED-7	7*	16278	524	435.2	1.20	321.9	325.4
SHED-8	8*	29931	798	863.8	.92	266.6	258.6
SHED-9	9*	24573	987	748.3	1.32	401.7	361.1
SHED-10	10*	71304	2620	2060.7	1.27	367.4	343.9
SHED-11	11*	74676	2008	2095.9	.96	268.9	262.1
SHED-12	12*	153735	2525	3621.2	.70	164.2	189.4
SHED-13	13*	14136	357	374.1	.95	252.5	260.9
-----							
FEMALES							
TOTAL...	0*	574260	1882	1882.0	1.00	32.8	32.8
SHED-1	1*	17070	106	57.8	1.83	62.1	62.0
SHED-2	2*	29958	212	102.9	2.06	70.8	84.0
SHED-3	3*	11646	26	40.5	.64	22.3	20.2
SHED-4	4*	25545	44	90.1	.49	17.2	17.3
SHED-5	5*	36834	134	128.7	1.04	36.4	34.5
SHED-6	6*	49263	121	161.1	.75	24.6	24.2
SHED-7	7*	16425	61	51.9	1.18	37.1	38.4
SHED-8	8*	30921	105	103.4	1.02	34.0	32.8
SHED-9	9*	25074	137	85.9	1.59	54.6	53.7
SHED-10	10*	78234	389	268.3	1.45	49.7	45.9
SHED-11	11*	79842	210	267.8	.78	26.3	26.0
SHED-12	12*	158835	299	476.8	.63	18.8	21.8
SHED-13	13*	14613	38	46.8	.81	26.0	26.2

TABLE C6

## REPAIR OF INGUINAL HERNIA

By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Stay and Mean Adjusted by Age  
Males and Females  
Vermont, 1969-1971

Hospital	MALES				FEMALES			
	Number of Cases	Total Days	Crude Mean	S.D.	Age-Adjusted Mean	S.D.	Crude Mean	Age-Adjusted Mean
0.	3135	19416	6.19	5.80	6.19	5.80	5.82	5.82
1.	643	3044	4.73	6.19	5.34	6.19	2.86	3.92
2.	118	700	5.93	4.24	5.59	4.24	8.44	8.02
3.	113	841	7.44	4.50	7.55	4.50	5.23	5.16
4.	110	862	7.84	5.45	7.40	5.45	5.43	5.12
5.	132	759	5.75	3.43	5.84	3.43	7.85	5.38
6.	107	586	5.48	4.03	5.21	4.03	4.31	4.66
7.	19	107	5.63	1.56	5.64	1.56	4.50	71.96
8.	118	733	6.21	4.08	6.01	4.08	4.58	4.16
9.	347	1872	5.39	4.16	5.42	4.16	4.40	4.53
10.	79	549	6.95	3.99	6.74	3.99	6.59	5.54
11.	7	42	6.00	1.60	5.83	1.60	7.00	7.00
12.	149	1181	7.93	4.75	7.58	4.75	9.92	7.93
13.	58	487	8.40	6.94	7.74	6.94	8.17	6.39
14.	144	861	5.98	4.41	5.93	4.41	5.67	4.72
15.	266	1791	6.73	6.73	6.68	6.73	6.08	5.27
17.	395	2887	7.31	8.17	7.00	8.17	7.57	6.53
18.	98	374	3.82	3.22	4.25	3.22	2.75	2.91
19.	230	1708	7.43	5.66	6.88	5.66	5.27	5.44
20.	2	32	16.00	9.00	17.23	9.00		
21.								

TABLE C7  
 REPAIR OF INGUINAL HERNIA  
 Number of Cases Per Surgeon, Total Cases  
 Performed by Vermont Physicians and Surgeons  
 1969-1971

Number of Cases	Physicians			Repair of Inguinal Hernia Cases		
	Number	%	Cumulative Number	Number	%	Cumulative Number
1	27	21.95	27	27	.78	27
2	9	7.32	36	18	.52	45
3	7	5.69	43	21	.60	66
4	5	4.07	48	20	.58	86
5	3	2.44	51	15	.43	101
6	5	4.07	56	30	.86	131
7	2	1.63	58	14	.40	145
8	1	.81	59	8	.23	153
9	1	.81	60	9	.26	162
10	1	.81	61	10	.29	172
11	1	.81	62	11	.32	183
13	2	1.63	64	26	.75	209
15	1	.81	65	15	.43	224
16	2	1.63	67	32	.92	256
17	3	2.44	70	51	1.47	307
18	1	.81	71	18	.52	325
19	2	1.63	73	38	1.09	363
20	1	.81	74	20	.58	383
21	1	.81	75	21	.60	404
23	2	1.63	77	46	1.32	450
25	2	1.63	79	50	1.44	500
26	1	.81	80	26	.75	526
29	1	.81	81	29	.84	555
30	3	2.44	84	90	2.59	645
31	2	1.63	86	62	1.79	707
35	1	.81	87	35	1.01	742
36	1	.81	88	36	1.04	778
44	1	.81	89	44	1.27	822
46	2	1.63	91	92	2.65	914
47	1	.81	92	47	1.35	961
48	1	.81	93	48	1.38	1009



TABLE C7 CONTINUED

REPAIR OF INGUINAL HERNIA

Number of Cases Per Surgeon, Total Cases  
Performed by Vermont Physicians and Surgeons  
1969-1971

Number of Cases	Physicians		Repair of Inguinal Hernia Cases	
	Number	%	Cumulative Number	Cumulative %
49	2	1.63	98	2.82
51	2	1.63	102	2.94
52	1	.81	52	1.50
57	2	1.63	114	3.28
58	2	1.63	116	3.34
65	1	.81	65	1.87
66	1	.81	66	1.90
71	1	.81	71	2.04
72	4	3.25	288	8.29
74	1	.81	74	2.13
82	1	.81	82	2.36
84	2	1.63	168	4.84
86	1	.81	86	2.48
90	2	1.63	180	5.18
93	1	.81	93	2.68
102	1	.81	102	2.94
105	1	.81	105	3.02
106	1	.81	106	3.05
110	1	.81	110	3.17
182	1	.81	182	5.24
203	1	.81	203	5.85
			1107	31.88
			1209	34.82
			1261	36.32
			1375	39.60
			1491	42.94
			1556	44.82
			1622	46.72
			1693	48.76
			1981	57.06
			2055	59.19
			2137	61.55
			2305	66.39
			2391	68.87
			2571	74.05
			2664	76.73
			2766	79.67
			2871	82.69
			2977	85.74
			3087	88.91
			3269	94.15
			3472	100.00

TABLE C8

REPAIR OF INGUINAL HERNIA  
By Hospital  
Number and Percent of Cases by Year  
Males and Females  
Vermont, 1969-1971

	MALES					
	HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..
			1969...	1970...	1971...	1971...
0.	3132	1041	1072	1019	100.0	33.2
1.	642	225	219	198	100.0	34.1
2.	118	25	40	53	100.0	33.9
3.	113	38	36	39	100.0	31.9
4.	110	47	30	33	100.0	27.3
5.	132	39	50	43	100.0	32.6
6.	107	39	32	36	100.0	33.6
7.	19	3	11	5	100.0	26.3
8.	118	36	44	38	100.0	37.3
9.	347	121	120	106	100.0	34.6
10.	77	24	23	30	100.0	31.2
11.	7	1	2	4	100.0	28.6
12.	149	49	63	37	100.0	42.3
13.	58	19	18	21	100.0	31.0
14.	144	56	47	41	100.0	32.6
15.	267	90	90	87	100.0	33.7
16.	395	121	143	131	100.0	30.6
17.	99	26	37	36	100.0	26.3
18.	228	81	67	80	100.0	35.5
19.	2	1	0	1	100.0	50.0
20.						
21.						
22.						
23.						
24.						
25.						
26.						
27.						
28.						
29.						
30.						
31.						
32.						
33.						
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41.						
42.						
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53.						
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87.						
88.						
89.						
90.						
91.						
92.						
93.						
94.						
95.						
96.						
97.						
98.						
99.						
100.						

## FEMALES

0.	375	131	117	127	100.0	34.9
1.	77	24	24	29	100.0	31.2
2.	16	3	5	8	100.0	31.3
3.	13	3	7	3	100.0	53.8
4.	7	3	4	0	100.0	57.1
5.	13	8	3	2	100.0	23.1
6.	13	7	3	3	100.0	61.5
7.	4	1	3	0	100.0	23.1
8.	12	5	6	1	100.0	75.0
9.	47	17	14	16	100.0	50.0
10.	17	6	4	7	100.0	29.8
11.	1	0	1	0	100.0	23.5
12.	12	3	5	4	100.0	100.0
13.	6	4	1	1	100.0	41.7
14.	12	7	1	4	100.0	16.7
15.	12	15	10	11	100.0	8.3
16.	36	14	18	23	100.0	33.3
17.	55	13	2	7	100.0	27.8
18.	12	8	6	8	100.0	32.7
19.	22	8	6	8	100.0	16.7
20.					100.0	27.3
21.						33.9
22.						37.7
23.						50.0
24.						23.1
25.						15.4
26.						23.1
27.						8.3
28.						34.0
29.						41.2
30.						100.0
31.						33.3
32.						16.7
33.						33.3
34.						30.6
35.						41.8
36.						58.3
37.						36.4

TABLE C9

REPAIR OF INGUINAL HERNIA  
By Hospital and Diagnosis  
Number of Cases and Mean Patient Age  
Males and Females  
Vermont, 1969-1971

Hospital	Number of Cases				Mean Age of Patient			Other Dx	
	Total	MALES			550	552	520-577		
		Total	Other Dx.	Total					
0.	3132	2922	141	36	33	39.73	42.87	48.75	40.06
1.	642	595	25	13	9	33.73	22.40	43.38	50.89
2.	118	115	1	1	1	43.60	18.00	18.00	62.00
3.	113	108	1	2	2	37.62	65.00	69.50	34.00
4.	110	101	7	0	2	43.65	44.57	.00	29.00
5.	132	121	8	3	0	37.64	22.75	47.67	.00
6.	107	102	5	0	0	44.24	62.80	.00	.00
7.	19	19	0	0	0	47.05	.00	.00	.00
8.	118	113	4	1	0	39.75	48.50	68.00	.00
9.	347	327	13	3	4	37.18	61.15	67.33	30.00
10.	77	74	3	0	0	39.73	63.67	.00	.00
11.	7	7	0	0	0	43.29	.00	.00	.00
12.	149	142	7	0	0	42.89	64.57	.00	.00
13.	58	55	3	0	0	46.93	49.33	.00	.00
14.	144	140	2	1	1	38.91	48.50	75.00	59.00
15.	267	234	27	4	2	41.01	41.56	57.50	40.50
16.	395	360	24	6	5	42.21	49.17	42.67	46.60
17.	99	96	2	0	1	34.26	66.00	.00	46.00
18.	228	212	9	2	5	46.04	31.44	30.00	14.20
19.	2	1	0	0	1	63.50	.00	.00	66.00
20.									
21.									
FEMALES									
0.	375	346	15	10	4	31.29	29.88	54.50	44.25
1.	77	74	3	0	0	19.88	19.43	31.00	.00
2.	16	14	1	0	1	59.87	85.00	.00	50.00
3.	13	13	0	0	0	21.31	21.31	.00	.00
4.	7	6	1	0	0	27.29	19.67	73.00	.00
5.	13	12	1	0	0	45.15	42.17	.00	.00
6.	13	12	1	0	0	19.62	21.17	81.00	.00
7.	4	4	0	0	0	25.25	25.25	1.00	.00
8.	12	12	0	0	0	23.08	23.08	.00	.00
9.	47	44	0	0	0	28.91	28.18	.00	2.00
10.	17	15	0	2	1	36.65	32.27	58.50	74.00
11.	12	12	0	1	1	47.00	47.00	65.00	.00
12.	1	1	0	0	0	44.42	44.42	.00	.00
13.	12	12	0	0	0	38.17	38.17	.00	.00
14.	6	6	0	0	0	31.45	31.45	.00	.00
15.	12	11	0	1	0	33.08	38.17	51.00	.00
16.	36	29	3	4	0	32.58	29.33	45.75	.00
17.	55	48	4	2	1	40.35	37.21	64.50	51.00
18.	12	12	0	0	0	20.17	20.17	.00	.00
19.	22	21	1	0	0	35.00	1.00	.00	.00
20.									

\* 520-577 excludes 550, 552. See front page for explanation of diagnostic codes.

TABLE C10

REPAIR OF INGUINAL HERNIA  
Total Number of Cases and Mean Patient Age  
By Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #) Major Diagnosis	Number of Cases	%	Mean Patient Age	(H-ICDA Code #) Major Diagnosis	Number of Cases	%	Mean Patient Age
0*	3513	100.00	38.8	560*	2	.06	16.0
11*	1	.03	61.0	564*	1	.03	30.0
54*	1	.03	69.0	570*	1	.03	53.0
70*	1	.03	56.0	574*	2	.06	64.5
94*	1	.03	58.0	592*	1	.03	43.0
152*	1	.03	68.0	593*	1	.03	53.0
153*	1	.03	73.0	595*	1	.03	84.0
154*	1	.03	82.0	597*	1	.03	33.0
173*	1	.03	85.0	600*	3	.09	66.7
185*	2	.06	65.0	603*	35	1.00	21.6
186*	1	.03	52.0	605*	1	.03	61.0
214*	1	.03	46.0	607*	6	.17	50.0
216*	1	.03	66.0	610*	1	.03	51.0
222*	1	.03	87.0	634*	2	.06	26.5
225*	1	.03	62.0	682*	1	.03	7.0
227*	1	.03	59.0	692*	1	.03	70.0
228*	1	.03	48.0	707*	1	.03	57.0
304*	1	.03	79.0	712*	1	.03	46.0
307*	1	.03	47.0	746*	1	.03	1.0
310*	2	.06	68.0	750*	1	.03	1.0
342*	1	.03	54.0	752*	10	.28	3.4
381*	1	.03	7.0	777*	1	.03	2.0
401*	1	.03	65.0	785*	3	.09	47.7
412*	2	.06	65.0	786*	3	.09	69.0
424*	1	.03	71.0	805*	1	.03	62.0
427*	3	.09	65.3	807*	3	.09	73.0
431*	1	.03	72.0	825*	1	.03	46.0
433*	1	.03	75.0	850*	1	.03	83.0
437*	1	.03	75.0	927*	1	.03	44.0
438*	1	.03	71.0				
440*	3	.09	71.0				
455*	6	.17	50.3				
465*	2	.06	2.0				
485*	1	.03	81.0				
486*	1	.03	65.0				
489*	1	.03	67.0				
492*	1	.03	71.0				
493*	1	.03	20.0				
500*	12	.34	42.6				
517*	1	.03	74.0				
519*	2	.06	68.0				
532*	3	.09	47.3				
535*	1	.03	79.0				
540*	2	.06	41.5				
542*	1	.03	17.0				
550*	3174	90.35	38.3				
551*	22	.63	56.5				
552*	153	4.36	43.0				
553*	4	.11	57.7				

## H-ICDA Code Numbers:

550 - Inguinal hernia without mention of obstruction  
 551 - Other hernia of abdominal cavity without obstruction  
 552 - Inguinal hernia with obstruction  
 603 - Hydrocele



## APPENDIX D:

## VARICOSE VEINS, EXCISION AND LIGATION

1969-1971

The H-ICDA Code for Varicose Veins is defined as follows:

36.5 - Excision and ligation of varicose veins

The H-ICDA Codes for diagnoses are as follows:

451 - Phlebitis and thrombophlebitis

454 - Varicose veins of lower extremities

450-458 - Diseases of veins and lymphatics, and other diseases of circulatory system

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. TABLE D8 includes only the major diagnosis that is recorded in the first diagnostic position.

TABLE D1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Mean Length of Hospital Stay

TABLE D2: By Hospital Service Area of Residence, Age Specific Discharge Rates Per 10,000 Person Years

TABLE D3: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years

TABLE D4: By Hospital Service Area of Residence, Patient Days of Hospitalization Per 10,000 Person Years

TABLE D5: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age

TABLE D6: By Hospital, Number and Percent of Cases by Year

TABLE D7: By Hospital and Diagnosis, Number of Cases and Mean Patient Age

TABLE D8: Total Number of Cases and Mean Patient Age By Major Diagnosis Explaining Admission

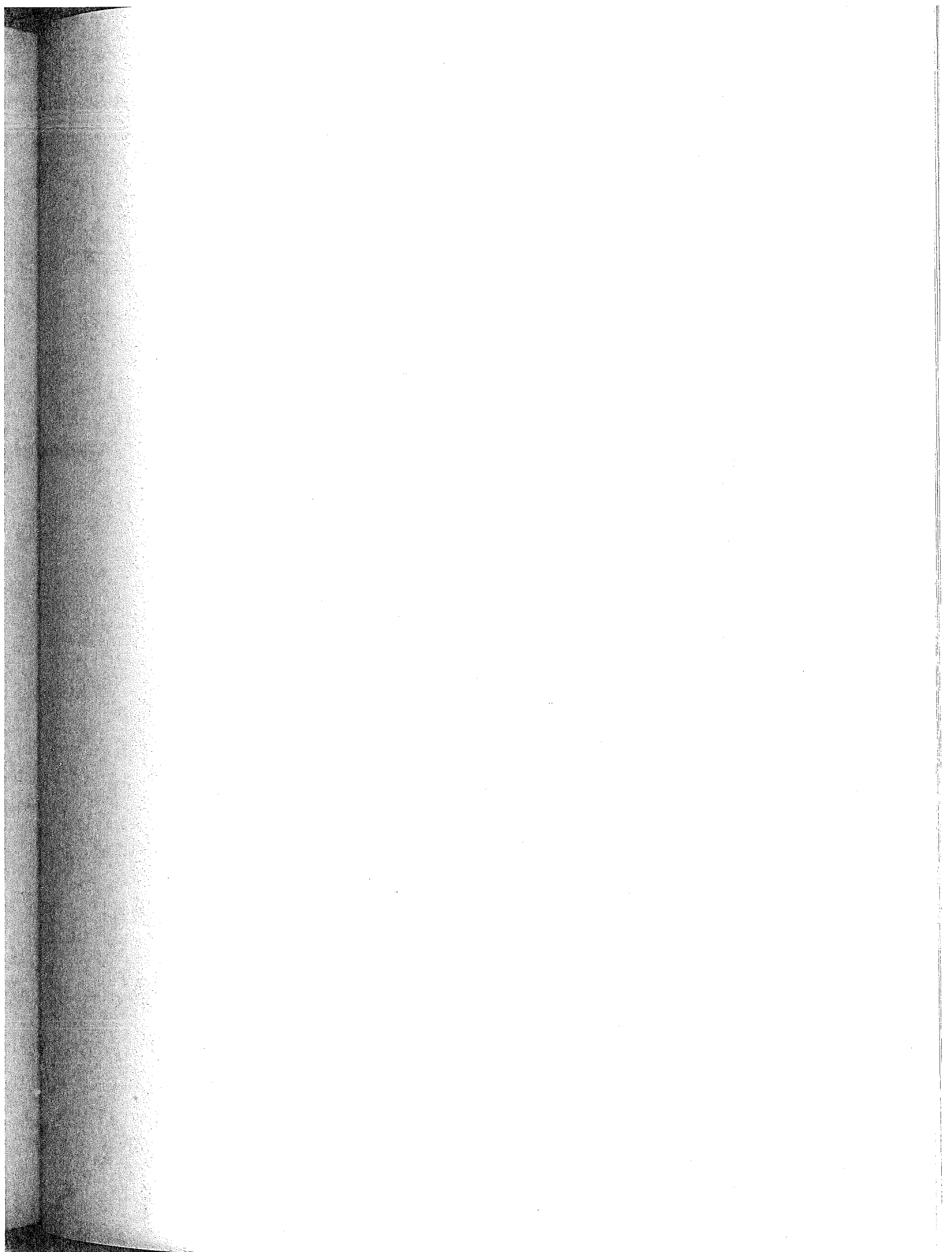


TABLE D1

## VARICOSE VEINS, EXCISION AND LIGATION

By Hospital Service Area of Residence  
 Number of Cases by Patient Age at Admission and Age Specific Mean Length of Hospital Stay  
 Vermont, 1969-1971

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	1022	14	27	58	104	131	133	138	114	100	90	58	39	16
SHED-1	73	0	1	0	6	8	6	9	7	9	11	5	10	1
SHED-2	38	0	1	1	3	3	10	3	6	6	3	2	2	0
SHED-3	23	0	1	0	0	6	3	4	3	1	3	0	0	2
SHED-4	38	0	0	3	7	1	6	8	8	1	3	0	1	0
SHED-5	122	1	2	8	10	17	10	12	12	15	17	9	7	2
SHED-6	58	0	4	2	4	6	10	10	3	7	3	4	3	2
SHED-7	32	0	2	3	2	6	5	3	2	7	4	1	1	0
SHED-8	40	1	0	1	5	5	10	2	0	7	4	2	1	2
SHED-9	60	0	1	3	5	6	4	15	11	7	6	2	0	0
SHED-10	166	4	4	9	13	13	21	23	20	16	17	14	7	5
SHED-11	123	3	4	8	11	22	17	16	16	8	7	6	5	0
SHED-12	233	5	6	20	35	37	29	29	25	19	14	11	1	2
SHED-13	16	0	1	0	3	1	2	4	1	1	0	2	1	0

## MEAN LENGTH OF HOSPITAL STAY (DAYS)

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	6.97	4.64	5.04	5.17	5.40	5.42	5.80	5.69	7.33	7.63	10.72	9.07	13.10	12.12
SHED-1	8.29	.00	4.00	.00	9.67	8.13	5.83	6.89	6.86	5.00	15.45	7.60	7.30	7.00
SHED-2	8.11	.00	5.00	4.00	5.00	4.67	5.10	4.00	12.17	9.17	4.00	27.00	10.50	.00
SHED-3	8.70	.00	6.00	.00	.00	6.00	5.67	4.75	11.67	4.00	7.67	.00	.00	30.00
SHED-4	6.00	.00	.00	5.00	5.14	2.00	5.67	6.50	8.00	8.00	4.33	.00	4.00	.00
SHED-5	9.77	4.00	9.50	9.25	7.40	7.71	7.10	9.17	7.08	10.53	13.18	11.11	15.29	17.50
SHED-6	8.88	.00	5.75	5.00	10.00	4.17	9.00	5.40	6.33	9.00	20.00	12.50	15.33	17.50
SHED-7	6.34	.00	2.50	5.67	8.50	6.50	6.00	5.67	3.50	8.33	8.00	9.00	5.00	.00
SHED-8	5.35	2.00	.00	5.00	4.80	6.00	4.40	7.00	.00	5.00	6.50	7.00	16.00	2.00
SHED-9	6.55	.00	5.00	5.33	3.80	5.17	6.25	5.33	9.73	7.00	8.17	6.00	.00	.00
SHED-10	7.86	5.25	4.75	5.22	5.15	6.54	6.43	6.00	7.55	9.81	11.24	8.36	18.86	9.00
SHED-11	6.06	6.33	5.25	4.50	3.82	4.64	5.88	4.56	6.81	7.75	11.71	5.00	13.80	.00
SHED-12	4.94	3.80	4.50	3.80	4.51	3.81	4.59	4.83	5.40	5.26	6.50	8.55	28.00	4.00
SHED-13	4.19	.00	2.00	.00	4.00	9.00	3.50	3.50	3.00	2.00	.00	4.00	10.00	.00



TABLE D2

VARICOSE VEINS, EXCISION AND LIGATION  
By Hospital Service Area of Residence  
Age Specific Discharge Rates Per 10,000 Person Years  
Vermont, 1969-1971

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	9.1	.3	3.5	7.7	16.8	22.3	21.3	22.3	19.6	18.8	18.6	14.5	12.0	3.3
SHED-1	21.3	.0	4.1	.0	34.6	48.0	30.4	46.9	38.8	50.5	66.4	34.3	93.1	5.6
SHED-2	6.5	.0	2.7	3.1	9.9	9.8	28.8	8.6	19.2	20.0	3.5	7.5	9.8	.0
SHED-3	10.2	.0	8.0	.0	.0	56.3	24.8	28.9	23.1	8.7	27.1	.0	.0	17.1
SHED-4	7.8	.0	.0	9.2	28.0	3.9	21.4	28.4	30.7	4.0	12.3	.0	6.0	.0
SHED-5	17.2	.4	4.6	18.2	27.7	48.0	23.8	30.9	33.0	41.0	45.9	29.7	27.0	5.3
SHED-6	6.0	.0	6.0	3.2	8.4	12.4	18.8	19.1	6.0	14.9	7.9	11.2	9.8	4.8
SHED-7	9.8	.0	8.3	12.3	10.4	34.3	30.4	18.1	11.8	19.9	28.4	9.0	11.2	.0
SHED-8	6.6	.4	.0	2.9	16.9	16.7	29.8	5.6	.0	25.1	13.9	8.2	4.7	7.1
SHED-9	12.1	.0	3.4	9.9	20.4	25.8	14.6	42.8	30.7	21.9	24.6	12.3	.0	.0
SHED-10	11.1	.7	4.0	9.6	16.8	17.5	25.3	27.3	23.3	20.5	24.1	24.9	13.8	6.4
SHED-11	8.0	.5	4.1	8.1	12.3	26.0	19.7	19.4	19.9	10.0	9.3	9.9	10.7	.0
SHED-12	7.5	.4	2.4	8.0	18.1	20.8	16.9	18.1	17.9	16.1	13.4	13.2	1.5	2.2
SHED-13	5.6	.0	4.8	.0	18.1	7.0	11.6	24.9	7.3	8.5	.0	19.7	12.6	.0

TABLE D3

## VARICOSE VEINS, EXCISION AND LIGATION

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases Per 10,000 Per Year	
		Obs #	Exp #	Ratio	Crude Rate	Age-Adjusted Rate
TOTAL...	0.	1022	1022.0	1.00	9.1	9.1
SHED-1	1.	73	32.0	2.28	21.3	20.4
SHED-2	2.	38	56.0	.68	6.5	6.2
SHED-3	3.	23	21.2	1.09	10.2	10.0
SHED-4	4.	38	46.7	.81	7.8	7.6
SHED-5	5.	122	67.0	1.82	17.2	16.5
SHED-6	6.	9699	86.0	.67	6.0	6.1
SHED-7	7.	32703	29.3	1.09	9.8	9.9
SHED-8	8.	60852	40	.72	6.6	6.7
SHED-9	9.	49647	60	1.21	12.1	10.7
SHED-10	10.	149538	166	1.19	11.1	10.8
SHED-11	11.	154518	123	.85	8.0	7.8
SHED-12	12.	312570	233	.87	7.5	7.8
SHED-13	13.	28749	16	.62	5.6	5.6

TABLE D4

## VARICOSE VEINS, EXCISION AND LIGATION

By Hospital Service Area of Residence  
Patient Days of Hospitalization Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Patient Days			Days Per 10,000 Per Year	
		Obs #	Exp #	Ratio	Crude Rate	Age-Adjusted Rate
TOTAL...	0.	7125	7125.0	1.00	63.6	63.6
SHED-1	1.	605	227.1	2.66	176.3	168.7
SHED-2	2.	308	399.5	.77	52.5	48.6
SHED-3	3.	200	150.6	1.33	88.6	83.2
SHED-4	4.	228	331.4	.69	46.5	45.6
SHED-5	5.	1192	480.2	2.48	168.0	157.2
SHED-6	6.	515	602.8	.85	53.1	54.1
SHED-7	7.	203	203.5	1.00	62.1	62.9
SHED-8	8.	214	396.0	.54	35.2	35.2
SHED-9	9.	393	349.3	1.13	79.2	67.7
SHED-10	10.	1305	993.0	1.31	87.3	82.9
SHED-11	11.	745	1019.8	.73	48.2	47.0
SHED-12	12.	1150	1794.0	.64	36.8	39.6
SHED-13	13.	67	177.7	.38	23.3	23.5

TABLE D5

## VARICOSE VEINS, EXCISION AND LIGATION

By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Hospital Stay and Mean Adjusted by Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)		
			Crude Mean	S.D.	Age-Adjusted Mean
0*	1360	9937	7.31	6.41	7.31
1*	281	1559	5.55	4.19	5.76
2*	58	329	5.67	5.45	5.70
3*	30	281	9.37	8.62	9.62
4*	24	179	7.46	6.05	6.72
5*	38	235	6.18	5.51	6.60
6*	31	234	7.55	6.96	6.74
7*	4	25	6.25	2.17	5.73
9*	28	238	8.50	7.04	8.37
10*	86	459	5.34	4.54	5.00
11*	78	675	8.65	8.19	7.94
12*	4	56	14.00	11.53	13.25
13*	49	302	6.16	2.90	6.12
14*	19	168	8.84	7.26	8.94
15*	45	343	7.62	7.28	7.75
17*	174	1671	9.60	5.94	9.22
18*	190	1578	8.31	6.63	8.10
19*	19	65	3.42	1.39	3.27
20*	202	1540	7.62	7.94	8.05

TABLE D6  
 VARICOSE VEINS, EXCISION AND LIGATION  
 By Hospital  
 Number and Percent of Cases by Year  
 Vermont, 1969-1971

	HOSPITAL TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	1358	456	457	445	100.0	33.6	33.7	32.8
1.	281	97	97	87	100.0	34.5	34.5	31.0
2.	58	12	24	22	100.0	20.7	41.4	37.9
3.	30	11	6	13	100.0	36.7	20.0	43.3
4.	24	7	7	10	100.0	29.2	29.2	41.7
5.	37	11	14	12	100.0	29.7	37.8	32.4
6.	31	10	9	12	100.0	32.3	29.0	38.7
7.	4	3	0	1	100.0	75.0	.0	25.0
9.	28	9	9	10	100.0	32.1	32.1	35.7
10.	86	29	29	28	100.0	33.7	33.7	32.6
11.	78	34	24	20	100.0	43.6	30.8	25.6
12.	4	2	1	1	100.0	50.0	25.0	25.0
13.	49	8	18	23	100.0	16.3	36.7	46.9
14.	19	8	6	5	100.0	42.1	31.6	26.3
15.	45	16	15	14	100.0	35.6	33.3	31.1
17.	174	76	56	42	100.0	43.7	32.2	24.1
18.	189	59	63	67	100.0	31.2	33.3	35.4
19.	19	5	10	4	100.0	26.3	52.6	21.1
20.	202	59	69	74	100.0	29.2	34.2	36.6

TABLE D7

VARICOSE VEINS, EXCISION AND LIGATION  
By Hospital and Diagnosis  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Number of Cases					Mean Age of Patient				
	Total	451	454	450-458	Other Dx	Total	451	454	450-458	Other Dx
0.	1358	39	1267	43	9	47.05	55.69	46.78	48.07	44.11
1.	281	3	273	4	1	44.93	64.33	44.93	32.00	40.00
2.	58	1	53	3	1	43.95	62.00	44.94	33.33	5.00
3.	30	0	29	0	1	47.10	.00	46.90	.00	53.00
4.	24	4	20	0	0	48.33	61.75	45.65	.00	.00
5.	37	2	33	2	0	48.68	65.00	47.91	45.00	.00
6.	31	0	31	0	0	47.13	.00	47.13	.00	.00
7.	4	1	3	0	0	50.25	41.00	53.33	.00	.00
8.	28	6	21	1	0	45.57	39.83	44.95	93.00	.00
9.	86	0	83	2	1	42.94	.00	42.84	47.50	42.00
10.	78	2	74	1	1	53.46	51.00	53.51	75.00	33.00
11.	4	0	3	1	0	61.00	.00	61.67	59.00	.00
12.	49	0	49	0	0	45.51	.00	45.51	.00	.00
13.	19	1	18	0	0	44.84	51.00	44.50	.00	.00
14.	45	0	40	5	0	45.62	.00	46.22	40.80	.00
15.	174	3	167	3	1	48.10	69.33	47.89	33.00	65.00
16.	189	15	158	13	3	49.60	58.00	48.32	54.62	53.00
17.	19	0	19	0	0	44.95	.00	44.95	.00	.00
18.	202	1	193	8	0	47.39	29.00	47.31	51.75	.00

## H-ICDA Code Numbers:

- 450-458 - Diseases of veins, lymphatics, other diseases of circulatory system (excludes 451, 454)  
 451 - Phlebitis and thrombophlebitis  
 454 - Varicose veins of lower extremities

## VARIKOSE VEINS, EXCISION AND LIGATION

Total Number of Cases and Mean Patient Age  
By Major Diagnosis Explaining Admission  
Vermont, 1969-1971

**H-ICDA Code Numbers:**  
 454 - Varicose veins of lower extremities  
 451 - Phlebitis and thrombophlebitis  
 456 - Varicose veins of other sites



# APPENDIX E:

## HEMORRHOIDECTOMIES

1969-1971

The H-ICDA Code for Hemorrhoidectomy is defined as follows:  
 51.3 - Hemorrhoidectomy

The H-ICDA Codes for diagnoses are as follows:

- 455 - Hemorrhoids
- 565 - Anal fissure and fistula
- 560-569 - Other diseases of intestine and peritoneum (excludes 565)
- 211 - Benign neoplasm of other parts of digestive system

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table E6 includes only the major diagnosis that is recorded in the first diagnostic position.

TABLE E1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Discharge Rates Per 10,000 Person Years

TABLE E2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years

TABLE E3: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age

TABLE E4: By Hospital, Number and Percent of Cases by Year

TABLE E5: By Hospital and Diagnosis, Number of Cases and Mean Patient Age

TABLE E6: Total Number of Cases and Mean Patient Age by Major Diagnosis Explaining Admission





TABLE E1

## HEMORRHOIDECTOMIES

By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission and Age Specific Discharge Rates Per 10,000 Person Years  
Vermont, 1969-1971

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	705	8	31	51	64	64	107	96	78	72	39	44	21	30
SHED-1	36	1	0	1	5	2	6	4	2	8	1	1	2	3
SHED-2	20	0	1	1	2	3	2	0	4	0	1	0	2	1
SHED-3	8	0	0	0	1	0	3	0	1	2	0	1	0	0
SHED-4	21	0	3	1	4	0	0	6	1	1	1	1	1	0
SHED-5	39	2	1	4	5	6	4	5	3	2	1	5	1	0
SHED-6	60	0	6	3	5	4	7	5	4	5	8	7	5	1
SHED-7	28	0	2	5	2	2	3	4	3	2	2	2	0	1
SHED-8	41	1	0	2	2	2	11	7	3	4	1	5	1	1
SHED-9	25	0	1	3	2	2	11	4	7	2	3	0	0	2
SHED-10	98	1	6	6	7	7	13	10	15	13	2	0	4	8
SHED-11	84	2	2	6	5	7	19	13	7	7	8	6	1	5
SHED-12	233	1	9	19	24	26	38	31	25	23	11	13	5	8
SHED-13	12	0	0	0	1	1	0	3	3	3	0	1	0	0
DISCHARGE RATE PER 10,000 PER YEAR														
TOTAL...	6.3	.2	4.0	6.7	10.4	10.9	17.1	15.5	13.4	13.6	8.0	11.0	6.4	6.2
SHED-1	10.5	.8	.0	4.6	28.8	12.0	30.4	20.9	11.1	44.9	6.0	6.9	18.6	16.8
SHED-2	3.4	.0	2.7	3.1	6.6	9.8	5.8	11.5	12.8	.0	3.5	.0	4.9	3.2
SHED-3	3.5	.0	.0	.0	8.6	.0	24.8	.0	7.7	17.3	.0	10.5	.0	.0
SHED-4	4.3	.0	7.5	3.1	4.0	15.8	.0	21.3	3.8	4.0	4.1	5.0	6.0	3.8
SHED-5	5.5	.8	2.3	9.1	13.8	16.9	9.5	12.9	8.3	5.5	2.7	16.5	3.9	.0
SHED-6	6.2	.0	9.0	4.9	10.5	8.3	13.2	9.6	8.0	10.6	21.1	19.5	16.3	2.4
SHED-7	8.6	.0	8.3	20.6	10.4	11.4	18.2	24.2	17.7	13.3	14.2	18.1	.0	7.7
SHED-8	6.7	.4	.0	5.8	6.7	6.7	32.8	19.7	8.8	14.3	3.5	20.4	4.7	7.1
SHED-9	5.0	.0	3.4	9.9	8.1	8.6	3.6	11.4	19.5	6.3	12.3	.0	.0	.0
SHED-10	6.6	.2	6.0	6.4	9.1	9.4	15.7	11.8	17.5	16.7	2.8	10.7	7.9	10.3
SHED-11	5.4	.3	3.1	6.1	7.8	5.9	22.1	15.7	8.7	8.8	10.6	3.3	2.1	7.3
SHED-12	7.5	.1	3.6	7.6	12.4	14.6	22.2	19.3	17.9	19.5	10.6	15.6	7.7	8.7
SHED-13	4.2	.0	.0	.0	6.0	7.0	.0	18.7	22.0	25.4	.0	9.9	.0	.0

TABLE E2

## HEMORRHOIDECTOMIES

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Crude Rate	Cases per 10,000 per Year		
		Obs#	Exp#	Ratio		Total	Age-Adjusted Males	Females
TOTAL...	0.	705	705.0	1.00	6.3	6.3	7.3	5.3
SHED-1	1.	36	22.2	1.62	10.5	10.2	10.3	10.1
SHED-2	2.	20	38.6	.52	3.4	3.3	3.8	2.8
SHED-3	3.	8	14.6	.55	3.5	3.4	4.3	2.7
SHED-4	4.	21	32.4	.65	4.3	4.0	5.5	2.6
SHED-5	5.	39	46.2	.84	5.5	5.5	7.0	4.1
SHED-6	6.	60	59.6	1.01	6.2	6.3	12.5	5.6
SHED-7	7.	28	20.2	1.39	8.6	8.6	8.4	4.8
SHED-8	8.	41	38.2	1.07	6.7	6.6	4.2	4.9
SHED-9	9.	25	34.2	.73	5.0	4.5	6.3	4.7
SHED-10	10.	98	96.8	1.01	6.6	6.3	5.7	6.3
SHED-11	11.	84	99.2	.85	5.4	5.3	9.9	5.0
SHED-12	12.	233	185.0	1.26	7.5	8.0	5.1	6.2
SHED-13	13.	12	17.8	.68	4.2	4.4		3.7

TABLE E3  
HEMORRHOIDECTOMIES  
By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Hospital Stay and Mean Adjusted by Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Crude Mean	S.D.	Mean Length of Hospital Stay (Days)		
					Total	Age-Adjusted Males	Age-Adjusted Females
0.	867	6264	7.22	5.11	7.22	6.98	7.57
1.	263	1558	5.92	4.10	6.08	5.74	6.61
2.	49	332	6.78	5.93	6.41	6.05	7.21
3.	33	277	8.39	4.40	8.44	9.57	8.09
4.	21	197	9.38	4.96	8.09	8.00	9.36
5.	40	202	5.05	2.06	5.09	4.66	5.59
6.	15	112	7.47	2.12	7.16	7.44	8.04
7.	4	36	9.00	4.64	7.69	8.24	7.67
8.	2	5	2.50	1.50	2.54	1.00	4.00
9.	29	169	5.83	2.64	6.14	6.27	5.43
10.	74	554	7.49	5.25	7.40	6.96	7.40
11.	41	350	8.54	6.81	7.32	7.42	7.75
12.	2	17	8.50	5.50	8.21	8.98	11.03
13.	30	289	9.63	4.97	10.87	9.07	7.00
14.	8	73	9.12	4.96	9.19	10.31	9.05
15.	36	258	7.17	4.31	7.12	6.45	6.79
17.	59	447	7.58	3.93	7.65	7.88	9.22
18.	107	1044	9.76	7.42	9.26	8.94	6.41
19.	14	82	5.86	3.29	5.53	5.14	5.28
20.	40	262	6.55	2.69	6.18	6.84	

TABLE E4  
HEMORRHOIDECTOMIES  
By Hospital  
Number and Percent of Cases by Year  
Vermont, 1969-1971

HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	865	289	279	297	100.0	33.4	92.3	34.3
1.	262	85	84	93	100.0	32.4	32.1	35.5
2.	50	17	17	16	100.0	34.0	34.0	32.0
3.	33	13	11	9	100.0	39.4	33.3	27.3
4.	21	5	11	5	100.0	23.8	52.4	23.8
5.	40	12	16	12	100.0	30.0	40.0	30.0
6.	15	5	4	6	100.0	33.3	26.7	40.0
7.	4	0	3	1	100.0	.0	75.0	25.0
8.	2	0	1	1	100.0	.0	50.0	50.0
9.	29	12	12	5	100.0	41.4	41.4	17.2
10.	73	29	19	25	100.0	39.7	26.0	34.2
11.	41	8	14	19	100.0	19.5	34.1	46.3
12.	2	2	0	0	100.0	100.0	.0	.0
13.	30	15	6	9	100.0	50.0	20.0	30.0
14.	8	3	3	2	100.0	37.5	37.5	25.0
15.	36	16	5	15	100.0	44.4	13.9	41.7
17.	59	15	21	23	100.0	25.4	35.6	39.0
18.	106	34	34	38	100.0	32.1	32.1	35.8
19.	14	7	4	3	100.0	50.0	28.6	21.4
20.	40	11	14	15	100.0	27.5	35.0	37.5

TABLE E5

HEMORRHOIDECTOMIES  
By Hospital and Diagnosis  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Number of Cases					Mean Age of Patient						
	Total	455	565	560-569	211	Other Dx	Total	455	565	560-569	211	Other Dx
0.	865	789	36	25	5	10	47.2	47.1	44.5	50.6	57.0	55.3
1.	262	234	17	9	1	1	46.4	46.4	43.6	46.9	68.0	76.0
2.	50	42	2	0	3	3	49.2	48.0	68.5	.0	57.7	45.0
3.	33	28	1	4	0	0	46.9	44.6	70.0	57.5	.0	.0
4.	21	19	2	0	0	0	52.3	53.5	41.0	.0	.0	.0
5.	40	40	0	0	0	0	48.0	48.0	.0	.0	.0	.0
6.	15	13	1	1	0	0	44.3	45.3	49.0	26.0	.0	.0
7.	4	3	0	1	0	0	51.3	44.0	.0	73.0	.0	.0
8.	2	2	0	0	0	0	64.0	64.0	.0	.0	.0	.0
9.	29	29	0	0	0	0	44.6	44.6	.0	.0	.0	.0
10.	73	71	2	0	0	0	46.2	46.4	39.5	.0	.0	.0
11.	41	38	1	1	0	1	48.3	47.2	52.0	78.0	.0	57.0
12.	2	2	0	0	0	0	43.5	43.5	.0	.0	.0	.0
13.	30	30	0	0	0	0	46.2	46.2	.0	.0	.0	.0
14.	8	7	0	1	0	0	51.0	50.1	.0	57.0	.0	.0
15.	36	33	0	0	1	2	44.9	44.7	.0	.0	44.0	50.0
17.	59	54	4	1	0	0	44.8	45.5	37.7	34.0	.0	.0
18.	106	93	5	5	0	3	47.9	47.6	39.0	54.6	.0	61.7
19.	14	14	0	0	0	0	52.2	52.2	.0	.0	.0	.0
20.	40	37	1	2	0	0	51.4	52.4	46.0	35.5	.0	.0

## H-ICDA Code Numbers:

- 455 - Hemorrhoids
- 560-569 - Other diseases of intestine and peritoneum (excludes 565)
- 565 - Anal fissure and fistula
- 211 - Benign neoplasm of other parts of digestive system

TABLE E6

## HEMORRHOIDECTOMIES

Total Number of Cases and Mean Patient Age  
By Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #)		Number of Cases		Percent	Mean Patient Age	(H-ICDA Code #)		Major Diagnosis	Number of Cases	Percent	Mean Patient Age
0.	867	100.00	47.2			566.	5	566.	5	.58	39.0
174.	1	.12	48.0			569.	13	569.	13	1.50	55.3
196.	1	.12	61.0			571.	1	571.	1	.12	54.0
201.	1	.12	46.0			590.	1	590.	1	.12	89.0
211.	4	.46	60.2			592.	2	592.	2	.23	64.0
214.	1	.12	56.0			595.	1	595.	1	.12	34.0
215.	1	.12	47.0			610.	2	610.	2	.23	34.0
216.	1	.12	27.0			620.	1	620.	1	.12	52.0
221.	1	.12	57.0			621.	1	621.	1	.12	43.0
222.	1	.12	42.0			650.	4	650.	4	.46	28.0
250.	1	.12	69.0			658.	1	658.	1	.12	20.0
277.	1	.12	49.0			695.	1	695.	1	.12	46.0
280.	1	.12	32.0			698.	1	698.	1	.12	52.0
305.	1	.12	54.0			703.	1	703.	1	.12	49.0
310.	1	.12	44.0			712.	1	712.	1	.12	57.0
349.	1	.12	61.0			713.	1	713.	1	.12	68.0
402.	1	.12	46.0			731.	1	731.	1	.12	46.0
410.	1	.12	76.0			785.	1	785.	1	.12	57.0
412.	1	.12	55.0			807.	1	807.	1	.12	46.0
437.	1	.12	84.0			821.	1	821.	1	.12	79.0
440.	1	.12	76.0			822.	1	822.	1	.12	76.0
455.	754	86.97	46.8			915.	1	915.	1	.12	50.0
485.	1	.12	68.0								
489.	2	.23	73.0								
493.	2	.23	63.0								
532.	2	.23	61.5								
533.	1	.12	68.0								
550.	1	.12	17.0								
551.	1	.12	82.0								
562.	1	.12	49.0								
563.	2	.23	39.0								
564.	1	.12	39.0								
565.	33	3.81	44.0								

H-ICDA Code Numbers:  
455 - Hemorrhoids  
565 - Anal fissure and fistula  
569 - Other diseases of intestine and peritoneum

APPENDIX F:

EXTRACTION OF LENS

1969-1971

The H-ICDA Codes for Extraction of Lens are defined as follows:

12.4 - Extraction of lens, extracapsular

12.5 - Extraction of lens, intracapsular

Table F7 includes only the major diagnosis that is recorded in the first diagnostic position.

TABLE F1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Discharge Rates Per 10,000 Person Years

TABLE F2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years

TABLE F3: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age

TABLE F4: By Hospital, Number and Percent of Cases by Year

TABLE F5: By Hospital and Type of Surgery, Number and Percent of Cases and Mean Patient Age

TABLE F6: By Patient Age Groups and Sex, Number and Percent of Cases

TABLE F7: Total Number and Percent of Cases and Mean Patient Age by Type of Surgery and Major Diagnosis Explaining Admission





TABLE F1

## EXTRACTION OF LENS

By Hospital Service Area of Residence  
 Number of Cases by Patient Age at Admission  
 And Age Specific Discharge Rates Per 10,000 Person Years  
 Vermont, 1969-1971

AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+
TOTAL...	1203	21	4	3	4	8	12	28	75	108	123	190	214	413
SHED-1	48	0	0	0	0	0	0	1	1	3	6	6	9	22
SHED-2	58	0	0	0	0	0	0	1	1	4	3	11	15	23
SHED-3	16	0	0	0	0	0	0	0	0	2	1	3	4	6
SHED-4	48	0	0	0	0	1	1	2	2	3	1	9	9	20
SHED-5	118	0	2	0	0	1	0	7	4	7	17	16	21	43
SHED-6	68	2	0	0	0	0	0	2	4	10	12	8	11	19
SHED-7	34	4	2	0	0	0	0	0	2	3	3	6	3	12
SHED-8	60	2	0	0	0	3	0	3	0	4	3	11	13	21
SHED-9	66	0	0	0	0	0	0	1	6	4	14	9	12	20
SHED-10	170	1	0	1	2	2	2	2	13	15	18	26	23	65
SHED-11	212	4	0	1	1	1	4	5	12	19	19	30	46	70
SHED-12	283	8	0	1	1	0	3	4	28	31	28	48	46	85
SHED-13	22	0	0	0	0	0	0	0	2	3	1	7	2	7
DISCHARGE RATE PER 10,000 PER YEAR														
TOTAL...	10.7	.5	.5	.4	.6	1.4	1.9	4.5	12.9	20.3	25.4	47.6	65.6	85.2
SHED-1	14.0	.0	.0	.0	.0	.0	.0	5.2	5.5	16.8	36.2	41.2	83.8	123.2
SHED-2	9.9	.0	.0	.0	.0	.0	.0	2.9	3.2	13.3	10.4	41.3	73.2	72.8
SHED-3	7.1	.0	.0	.0	.0	.0	.0	.0	.0	17.3	9.0	31.6	56.0	51.2
SHED-4	9.8	.0	.0	.0	.0	3.9	3.6	7.1	7.7	12.0	4.1	44.6	53.9	76.7
SHED-5	16.6	.0	4.6	.0	.0	2.8	.0	18.0	11.0	19.1	45.9	52.8	80.9	113.4
SHED-6	7.0	.5	.0	.0	.0	.0	.0	3.8	8.0	21.2	31.7	22.3	35.9	45.2
SHED-7	10.4	3.1	8.3	.0	.0	.0	12.2	.0	11.8	19.9	.0	54.2	33.7	92.8
SHED-8	9.9	.8	.0	.0	.0	10.0	.0	8.5	.0	14.3	10.4	44.9	61.7	74.2
SHED-9	13.3	.0	.0	.0	.0	.0	.0	2.9	16.8	12.5	57.4	55.4	82.5	75.8
SHED-10	11.4	.2	.0	1.1	2.6	2.7	2.4	2.4	15.2	19.2	25.6	46.2	45.4	83.7
SHED-11	13.7	.7	.0	1.0	1.1	1.2	4.6	6.1	14.9	23.9	25.3	49.5	58.5	102.2
SHED-12	9.1	.6	.0	.4	.5	.0	1.8	2.5	20.1	26.2	26.9	57.7	71.2	92.3
SHED-13	7.7	.0	.0	.0	.0	.0	.0	.0	14.7	25.4	8.3	69.0	25.3	61.2

TABLE F2

## EXTRACTION OF LENS

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Ratio	Cases Per 10,000 Per Year	
		Obs #	Exp #	Rate		Crude Rate	Age-Adjusted Rate
TOTAL...	1121136	1203	1203.0	1.00		10.7	10.7
SHED-1	34317	48	41.8	1.15		14.0	12.2
SHED-2	58674	58	74.8	.78		9.9	8.1
SHED-3	22581	16	27.6	.58		7.1	6.2
SHED-4	49023	48	60.9	.79		9.8	8.4
SHED-5	70965	118	90.3	1.31		16.6	14.1
SHED-6	96999	68	105.5	.64		7.0	7.0
SHED-7	32703	34	33.2	1.02		10.4	10.9
SHED-8	60852	60	71.3	.84		9.9	9.0
SHED-9	49647	66	60.8	1.09		13.3	11.7
SHED-10	149538	170	181.6	.94		11.4	10.1
SHED-11	154518	212	174.4	1.22		13.7	13.1
SHED-12	312570	283	251.8	1.12		9.1	12.1
SHED-13	28749	22	29.1	.76		7.7	8.2

TABLE F3

## EXTRACTION OF LENS

By Hospital, Number of Cases, Total Hospital Days  
Mean Length of Hospital Stay and Mean Adjusted By Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)		
			Crude Mean	S.D.	Age-Adjusted Mean
0.	1709	14206	8.31	5.41	8.31
1.	522	4446	8.52	6.40	8.68
2.	12	98	8.17	3.16	8.61
6.	16	170	10.62	7.38	9.60
7.	67	392	5.85	2.64	5.65
10.	297	2670	8.99	5.08	8.93
13.	74	624	8.43	7.21	8.66
15.	94	845	8.99	3.75	8.79
17.	128	900	7.03	5.07	7.06
18.	159	1511	9.50	6.23	9.52
20.	339	2543	7.50	3.23	7.55
21.	1	7	7.00	.00	7.00

TABLE F4

## EXTRACTION OF LENS

By Hospital  
Number and Percent of Cases by Year  
Vermont, 1969-1971

	HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	1676	416	594	666	100.0	24.8	35.4	39.7	
1.	518	124	181	213	100.0	23.9	34.9	41.1	
2.	12	1	1	10	100.0	8.3	8.3	83.3	
6.	16	11	2	3	100.0	68.8	12.5	18.8	
7.	67	2	18	47	100.0	3.0	26.9	70.1	
10.	297	82	105	110	100.0	27.6	35.4	37.0	
13.	71	10	25	36	100.0	14.1	35.2	50.7	
15.	69	22	21	26	100.0	31.9	30.4	37.7	
17.	128	33	60	35	100.0	25.8	46.9	27.3	
18.	158	45	49	64	100.0	28.5	31.0	40.5	
20.	339	86	131	122	100.0	25.4	38.6	36.0	
21.	1	0	1	0	100.0	.0	100.0	.0	

TABLE F5

EXTRACTION OF LENS  
By Hospital and Type of Surgery  
Number and Percent of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Number of Cases			Percent			Mean Age of Patient		
	Total	124	125	Total	124	125	Total	124	125
0.	1709	93	1616	100.00	5.44	94.56	68.30	62.09	68.65
1.	522	33	489	100.00	6.32	93.68	65.35	52.88	66.19
2.	12	4	8	100.00	33.33	66.67	62.42	66.00	60.62
6.	16	1	15	100.00	6.25	93.75	71.56	46.00	73.27
7.	67	7	60	100.00	10.45	89.55	71.45	74.29	71.12
10.	297	11	286	100.00	3.70	96.30	70.46	76.00	70.25
13.	74	0	74	100.00	.00	100.00	68.32	.00	68.32
15.	94	5	89	100.00	5.32	94.68	69.83	62.80	70.22
17.	128	7	121	100.00	5.47	94.53	68.90	51.29	69.92
18.	159	10	149	100.00	6.29	93.71	68.89	71.80	68.70
20.	339	14	325	100.00	4.13	95.87	69.40	63.93	69.64
21.	1	1	0	100.00	100.00	.00	77.00	77.00	.00

H-ICDA Code Numbers:

12.4 - Lens extraction, extracapsular  
12.5 - Lens extraction, intracapsular

TABLE F6

EXTRACTION OF LENS  
By Patient Age Groups and Sex  
Number and Percent of Cases  
Vermont, 1969-1971

Area	Total	Number of Cases		Percent	
		Males	Females	Males	Females
TOTAL	1709	704	1005	41.19	58.81
<20	25	15	10	60.00	40.00
20-24	5	0	5	.00	100.00
25-29	3	3	0	100.00	.00
30-34	7	5	2	71.43	28.57
35-39	9	9	0	100.00	.00
40-44	21	9	12	42.86	57.14
45-49	41	11	30	26.83	73.17
50-54	90	46	44	51.11	48.89
55-59	147	74	73	50.34	49.66
60-64	177	91	86	51.41	48.59
65-69	271	116	155	42.80	57.20
70-74	317	118	199	37.22	62.78
75+	596	207	389	34.73	65.27

TABLE F7

## EXTRACTION OF LENS

Total Number and Percent of Cases and Mean Patient Age  
By Type of Surgery and Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #) Major Diagnosis	Number of Cases			Percent		Mean Patient Age
	Total	124	125	Total	125	
0.	1675	91	1584	100.00	94.57	68.3
90.	1	0	1	100.00	100.00	58.0
250.	16	0	16	100.00	100.00	70.9
347.	2	0	2	100.00	100.00	74.0
364.	1	0	1	100.00	100.00	68.0
366.	1	0	1	100.00	100.00	46.0
372.	1	0	1	100.00	100.00	84.0
373.	1	0	1	100.00	100.00	4.0
374.	1588	85	1503	100.00	94.65	68.9
375.	19	3	16	100.00	84.21	72.4
377.	1	0	1	100.00	100.00	65.0
378.	7	0	7	100.00	100.00	50.1
379.	2	0	2	100.00	100.00	49.0
401.	3	0	3	100.00	100.00	64.0
412.	2	0	2	100.00	100.00	72.0
427.	1	0	1	100.00	100.00	90.0
435.	1	0	1	100.00	100.00	75.0
440.	3	0	3	100.00	100.00	76.3
492.	1	0	1	100.00	100.00	88.0
519.	2	1	1	100.00	50.00	70.0
521.	1	0	1	100.00	100.00	17.0
524.	2	0	2	100.00	100.00	11.5
550.	1	0	1	100.00	100.00	59.0
562.	1	0	1	100.00	100.00	81.0
568.	1	0	1	100.00	100.00	71.0
571.	1	0	1	100.00	100.00	56.0
692.	1	0	1	100.00	100.00	72.0
712.	1	0	1	100.00	100.00	84.0
744.	12	2	10	100.00	83.33	10.7
784.	1	0	1	100.00	100.00	61.0

## H-ICDA Code Numbers:

## Procedure

12.4 - Lens extraction, extracapsular

12.5 - Lens extraction, intracapsular

## Diagnosis

374 - Cataract

375 - Glaucoma

250 - Diabetes mellitus

744 - Congenital anomalies of eye



# APPENDIX G:

## DILATION AND CURETTAGE

1969-1971

The H-ICDA Code for Dilation and Curettage is defined as follows:

- 71.9 - Dilation and curettage of uterus (excludes 79.1 - that following delivery or abortion, and 75.6 - that for termination of pregnancy)

The H-ICDA Codes for diagnoses are as follows:

- 180-184 - Primary malignant neoplasm of female genitourinary organs
- 140-209 - Malignant neoplasms (excludes 180-184)
- 218-219 - Uterine fibroma; other benign neoplasm of uterus
- 220-221 - Benign neoplasm of ovary; other female genital organs
- 612-616 - Diseases of ovary, fallopian tube, parametrium
- 620-629 - Diseases of the uterus and other female genital organs
- 630-678 - Delivery and complications of pregnancy, childbirth, and the puerperium

Dilation and Curettage includes females only and is broken down by primary and secondary. Table headings describe which are included.

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table G9 includes only the major diagnosis that is recorded in the first diagnostic position.

- TABLE G1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Mean Length of Hospital Stay
- TABLE G2: By Hospital Service Area of Residence, Number of Cases and Patient Days of Hospitalization, Observed and Expected Number and Rate Per 10,000 Person Years
- TABLE G3: Total and Primary Surgery by Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age
- TABLE G4: Number of Cases per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons
- TABLE G5: By Hospital, Number and Percent of Cases by Year
- TABLE G6: By Hospital and Diagnosis, Number of Cases and Mean Patient Age
- TABLE G7: Total Number of Cases by Major Surgery
- TABLE G8: Number and Percent of Cases by Diagnosis and Surgeon Specialty
- TABLE G9: Total Number of Cases and Mean Patient Age by Major Diagnosis Explaining Admission





TABLE G1

## DILATION AND CURETTAGE

By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission and Age Specific Mean Length of Hospital Stay  
Vermont, 1969-1971

FEMALES															
AREA	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	75+
TOTAL...	0.	4085	131	393	453	413	447	615	633	461	209	104	85	69	72
SHED-1	1.	264	8	30	36	33	36	40	31	21	8	9	3	4	5
SHED-2	2.	115	8	6	8	7	14	19	17	14	8	3	4	5	2
SHED-3	3.	113	5	13	7	13	17	21	17	10	5	2	1	1	1
SHED-4	4.	279	16	43	41	25	30	49	29	21	6	1	8	3	7
SHED-5	5.	343	9	30	50	43	31	49	53	28	14	11	7	8	10
SHED-6	6.	314	7	19	23	38	31	66	58	34	19	6	6	5	2
SHED-7	7.	135	10	15	13	9	15	15	28	15	8	4	2	0	1
SHED-8	8.	193	6	30	23	13	23	24	26	22	9	3	2	2	5
SHED-9	9.	294	9	16	15	29	29	45	59	52	21	6	7	3	3
SHED-10	10.	430	8	47	44	43	50	50	72	50	22	13	8	7	16
SHED-11	11.	558	30	64	75	51	68	58	84	51	30	19	14	7	7
SHED-12	12.	971	13	69	113	104	97	161	144	135	58	25	16	23	13
SHED-13	13.	76	2	11	5	5	6	18	15	8	1	2	2	1	0
MEAN LENGTH OF HOSPITAL STAY (DAYS)															
TOTAL...	0.	4.01	2.81	3.07	3.28	3.54	3.65	3.97	3.75	3.72	4.19	6.89	6.20	11.84	10.39
SHED-1	1.	3.80	2.37	3.33	3.03	4.03	3.03	4.70	3.58	2.57	3.13	4.44	13.33	9.50	7.20
SHED-2	2.	3.37	2.75	3.33	2.25	4.14	2.43	3.26	2.24	2.79	3.75	3.67	5.50	11.80	2.00
SHED-3	3.	4.56	2.40	2.54	3.14	2.54	4.06	7.90	5.29	2.70	5.80	4.50	4.00	19.00	2.00
SHED-4	4.	3.80	2.44	2.95	3.85	3.40	3.80	3.45	4.62	4.33	2.17	3.00	7.63	2.33	8.29
SHED-5	5.	4.95	2.67	2.70	3.66	3.98	3.81	5.65	4.75	4.29	5.14	11.36	8.00	10.12	13.70
SHED-6	6.	4.01	4.43	3.33	2.38	3.53	4.42	3.64	3.81	5.41	4.21	8.50	2.67	10.00	2.00
SHED-7	7.	3.34	3.40	3.33	2.38	3.22	5.33	3.20	2.96	2.00	2.50	8.00	3.50	.00	7.00
SHED-8	8.	3.99	3.00	4.03	3.04	3.92	3.87	4.04	4.46	3.14	5.33	7.67	5.14	4.50	4.60
SHED-9	9.	4.21	3.56	3.44	2.67	4.21	4.38	4.47	3.37	4.02	4.05	14.00	6.86	6.00	5.67
SHED-10	10.	5.76	4.38	4.15	3.98	4.60	5.64	4.12	5.07	5.60	8.41	7.92	9.75	18.57	15.19
SHED-11	11.	3.15	2.27	2.75	3.11	2.84	2.76	2.91	3.06	3.27	2.37	4.37	6.36	7.14	8.57
SHED-12	12.	3.63	2.08	2.48	3.33	3.08	2.80	3.43	3.15	3.09	3.69	5.76	4.19	15.39	12.08
SHED-13	13.	3.01	3.50	2.36	2.40	2.00	1.83	3.56	3.60	3.50	3.00	4.50	1.50	2.00	.00

TABLE 62

## DILATION AND CURETTAGE

By Hospital Service Area of Residence  
Number of Cases and Patient Days of Hospitalization  
Observed and Expected Number and Rate Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases Per 10,000 Per Year			Number of Patient Days			Days Per 10,000 Per Year	
		Obs #	Exp #	Ratio	Crude Rate	Age- Adjusted		Obs #	Exp #	Ratio	Crude Rate	Age- Adjusted
TOTAL...	C.	4085	4085.0	1.00	71.1	71.1		16364	16364.0	1.00	285.0	285.0
SHED-1	1.	264	121.2	2.18	154.7	157.2		1002	492.0	2.04	587.0	589.5
SHED-2	2.	115	214.2	.54	38.4	37.6		388	878.8	.44	129.5	123.7
SHED-3	3.	113	82.3	1.37	97.0	100.1		515	336.4	1.53	442.2	450.7
SHED-4	4.	279	184.0	1.52	109.2	108.8		1059	752.3	1.41	414.6	409.4
SHED-5	5.	343	261.3	1.31	93.1	94.0		1697	1073.9	1.58	460.7	448.3
SHED-6	6.	314	340.0	.92	63.7	65.7		1260	1364.6	.92	255.8	263.1
SHED-7	7.	135	116.7	1.16	82.2	82.6		451	462.5	.98	274.6	276.5
SHED-8	8.	193	214.2	.90	62.4	65.1		770	871.0	.88	249.0	258.1
SHED-9	9.	294	190.7	1.54	117.3	107.8		1237	769.8	1.61	493.3	456.3
SHED-10	10.	430	555.7	.77	55.0	55.0		2475	2264.3	1.09	316.4	309.1
SHED-11	11.	558	566.4	.99	69.9	70.2		1756	2287.0	.77	219.9	219.9
SHED-12	12.	971	1135.9	.85	61.1	62.5		3525	4402.4	.80	221.9	238.5
SHED-13	13.	76	102.5	.74	52.0	52.1		229	408.9	.86	156.7	156.5

TABLE G3

## DILATION AND CURETTAGE

Total and Primary Surgery by Hospital  
 Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age  
 Vermont, 1969-1971

Hospital	Total D & C				Primary D & C			
	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)		Number of Cases	Total Days	Mean Length of Hospital Stay (Days)	
			Crude Mean	S.D.			Crude Mean	Age- Adjusted
0.	5637	24934	4.42	6.35	4610	14611	3.17	3.17
1.	958	3970	4.14	8.36	789	2537	3.22	3.06
2.	269	950	3.53	4.98	255	783	3.07	2.99
3.	75	378	5.04	4.52	63	224	3.56	3.54
4.	228	850	3.73	3.53	205	636	3.10	3.08
5.	212	806	3.80	3.88	176	518	2.94	2.96
6.	88	372	4.23	11.10	85	315	3.71	3.33
7.	10	37	3.70	2.72	10	37	3.70	2.88
8.	139	462	3.32	3.85	131	378	2.89	2.92
9.	533	1518	2.85	2.73	495	1247	2.52	2.58
10.	275	1010	3.67	3.07	240	709	2.95	3.00
11.	7	21	3.00	1.31	7	21	3.00	2.98
12.	323	1441	4.46	8.40	272	812	2.99	3.01
13.	161	489	3.04	2.27	150	415	2.77	2.77
14.	360	1302	3.62	3.31	315	901	2.86	2.95
15.	1	2	2.00	.00	1	2	2.00	2.00
16.	512	2521	4.92	5.57	369	1171	3.17	3.32
17.	453	2549	5.63	6.21	364	1496	4.11	4.16
18.	74	167	2.26	1.10	71	157	2.21	2.31
19.	952	6039	6.34	7.73	606	2204	3.64	3.31
20.	7	50	7.14	12.19	6	48	8.00	7.23

TABLE G4

## DILATION AND CURETTAGE

Number of Cases per Surgeon, Total Cases  
Performed by Vermont Physicians and Surgeons  
Vermont, 1969-1971

Physicians			Dilation and Curettage Cases			
Number of Cases	Number	%	Cumulative Number	Cumulative %	Number of Cases	Cumulative %
1	50	28.90	50	28.90	50	.89
2	18	10.40	68	39.31	86	1.53
3	11	6.36	79	45.66	119	2.12
4	2	1.16	81	46.82	127	2.27
5	5	2.89	86	49.71	152	2.71
6	4	2.31	90	52.02	176	3.14
7	4	2.31	94	54.34	204	3.64
8	2	1.16	96	55.49	220	3.93
9	1	.58	97	56.07	229	4.09
10	2	1.16	99	57.23	249	4.44
11	1	.58	100	57.80	260	4.64
12	3	1.73	103	59.54	296	5.28
13	2	1.16	105	60.69	322	5.74
14	1	.58	106	61.27	336	5.99
16	1	.58	107	61.85	352	6.28
18	3	1.73	110	63.58	406	7.24
19	3	1.73	113	65.32	463	8.26
21	1	.58	114	65.90	484	8.64
24	3	1.73	117	67.63	556	9.92
25	1	.58	118	68.21	581	10.37
26	1	.58	119	68.79	607	10.83
27	1	.58	120	69.36	634	11.31
28	2	1.16	122	70.52	690	12.31
29	1	.58	123	71.10	719	12.83
31	1	.58	124	71.68	750	13.38
33	1	.58	125	72.25	783	13.97
34	3	1.73	128	73.99	885	15.79
36	1	.58	129	74.57	921	16.43
38	2	1.16	131	75.72	997	17.79
39	1	.58	132	76.30	1036	18.48
43	3	1.73	135	78.03	1165	20.79
47	1	.58	136	78.61	1212	21.62
51	1	.58	137	79.19	1263	22.53
52	1	.58	138	79.77	1315	23.46
54	1	.58	139	80.35	1369	24.42
62	1	.58	140	80.92	1431	25.53
66	1	.58	141	81.50	1497	26.71

## DILATION AND CURETTAGE

Number of Cases per Surgeon, Total Cases  
Performed by Vermont Physicians and Surgeons  
Vermont, 1969-1971

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TABLE 65

## DILATION AND CURETTAGE

By Hospital  
Number and Percent of Cases by Year  
Vermont, 1969-1971

HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	5637	1782	1840	2015	100.0	31.6	32.6	35.7
1.	958	329	285	344	100.0	34.3	29.7	35.9
2.	269	74	106	89	100.0	27.5	39.4	33.1
3.	75	3	12	60	100.0	4.0	16.0	80.0
4.	228	68	87	73	100.0	29.8	38.2	32.0
5.	212	71	60	81	100.0	33.5	28.3	38.2
6.	88	30	21	37	100.0	34.1	23.9	42.0
7.	10	4	3	3	100.0	40.0	30.0	30.0
8.	139	27	59	53	100.0	19.4	42.4	38.1
9.	533	174	183	176	100.0	32.6	34.3	33.0
10.	275	97	90	88	100.0	35.3	32.7	32.0
11.	7	3	2	2	100.0	42.9	28.6	28.6
12.	323	85	114	124	100.0	26.3	35.3	38.4
13.	161	65	51	45	100.0	40.4	31.7	28.0
14.	360	140	122	98	100.0	38.9	33.9	27.2
15.	1	0	0	1	100.0	.0	.0	100.0
16.	512	147	172	193	100.0	28.7	33.6	37.7
17.	453	167	147	139	100.0	36.9	32.5	30.7
18.	74	26	23	25	100.0	35.1	31.1	33.8
19.	952	269	299	384	100.0	28.3	31.4	40.3
20.	7	3	4	0	100.0	42.9	57.1	.0
21.								

TABLE 66

DILATION AND CURETTAGE  
By Hospital and Diagnosis  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

HOSPITAL TOTAL...	180-184	140-209*	218-219	220-221	612-616	620-629	630-678	OTHER DX
0.	5573	19	714	98	107	3819	0	292
1.	942	3	101	21	21	662	0	53
2.	267	0	29	2	2	193	0	26
3.	75	1	4	1	1	68	0	0
4.	228	1	44	2	0	166	0	6
5.	212	0	31	1	9	151	0	6
6.	88	0	16	0	0	68	0	0
7.	10	0	1	0	0	5	0	0
9.	137	0	12	0	0	101	0	9
10.	527	1	55	4	2	393	0	38
11.	273	0	34	3	5	216	0	6
12.	7	0	0	0	0	5	0	0
13.	314	1	35	5	4	245	0	6
14.	159	1	14	2	9	87	0	35
15.	359	1	29	6	5	276	0	25
16.	1	0	0	0	0	0	0	1
17.	505	1	61	8	14	365	0	16
18.	452	2	86	3	4	287	0	19
19.	73	0	19	0	2	36	0	14
20.	937	7	143	33	26	490	0	31
21.	7	0	0	0	0	5	0	1
MEAN AGE OF PATIENT								
0.	41.61	54.89	46.89	37.43	32.96	40.12	.00	34.37
1.	42.95	61.00	46.86	35.29	32.24	42.10	.00	38.28
2.	41.52	.00	48.93	31.50	34.50	40.19	.00	40.50
3.	38.33	.00	46.50	42.00	39.00	37.56	.00	.00
4.	43.25	69.00	46.14	47.50	.00	42.47	.00	24.67
5.	38.07	.00	45.35	35.00	26.67	37.23	.00	34.33
6.	44.25	.00	54.25	.00	.00	40.65	.00	.00
7.	45.00	.00	38.00	.00	.00	39.40	.00	.00
9.	36.99	.00	50.00	19.75	.00	36.24	.00	34.11
10.	38.88	62.00	46.95	29.57	33.33	37.89	.00	28.16
11.	37.34	.00	45.79	41.00	31.20	36.00	.00	28.67
12.	43.43	.00	.00	.00	.00	47.00	.00	.00
13.	43.17	69.00	44.51	45.20	31.25	42.57	.00	41.50
14.	37.20	62.00	46.93	34.00	33.44	37.18	.00	30.86
15.	36.92	46.06	46.97	37.67	27.80	36.36	.00	26.40
16.	40.00	.00	.00	.00	.00	.00	.00	40.00
17.	40.82	61.00	45.46	45.38	35.00	39.66	.00	37.00
18.	41.70	68.50	47.57	35.00	25.00	38.90	.00	40.53
19.	40.70	.00	47.00	.00	34.50	41.42	.00	29.14
20.	46.34	42.14	47.02	39.24	37.15	44.58	.00	39.74
21.	34.57	.00	.00	.00	.00	34.80	.00	21.00

\* Excludes 180-184. See D&C front page for explanation of diagnostic codes.



TABLE G7

DILATION AND CURETTAGE  
Total Number of Cases by Major Surgery  
Vermont, 1969-1971

(H-ICDA Code #) Major Surgery	Number of D & C Cases			(H-ICDA Code #)		
	Total	Primary	Secondary	Major Surgery	Total	Primary
0.	5635	4610	1025	704.	4	0
32.	1	0	1	709.	2	0
51.	1	0	1	710.	12	0
61.	1	0	1	711.	421	0
125.	1	0	1	712.	5	0
231.	1	0	1	713.	134	0
264.	1	0	1	714.	2	0
365.	13	0	13	716.	12	0
391.	23	0	23	717.	26	0
392.	1	0	1	719.	4610	0
440.	1	0	1	721.	2	0
443.	1	0	1	722.	1	0
463.	2	0	2	723.	1	0
470.	2	0	2	724.	29	0
490.	3	0	3	725.	9	0
491.	1	0	1	726.	1	0
501.	17	0	17	730.	5	0
512.	5	0	5	732.	4	0
513.	3	0	3	733.	10	0
535.	3	0	3	734.	39	0
541.	6	0	6	735.	4	0
550.	1	0	1	742.	8	0
551.	1	0	1	744.	1	0
556.	30	0	30	745.	1	0
557.	1	0	1	746.	1	0
562.	1	0	1	756.	1	0
570.	1	0	1	766.	1	0
574.	3	0	3	769.	1	0
620.	1	0	1	774.	1	0
623.	1	0	1	781.	1	0
625.	1	0	1	791.	1	0
632.	3	0	3	793.	1	0
642.	10	0	10	800.	1	0
644.	1	0	1	802.	1	0
690.	4	0	4	830.	1	0
691.	38	0	38	833.	1	0
692.	9	0	9	834.	1	0
693.	33	0	33	836.	1	0
694.	7	0	7	842.	1	0
695.	8	0	8	908.	1	0
696.	1	0	1			
701.	14	0	14			
702.	15	0	15			

## H-ICDA Code Numbers:

71.9 - Dilation and curettage of uterus

71.1 - Abdominal hysterectomy, total

71.3 - Vaginal hysterectomy, total and subtotal

TABLE G8

DILATION AND CURETTAGE  
Number and Percent of Cases  
By Diagnosis and Surgeon Specialty  
Vermont, 1969-1971

		Number of Cases					Percent				
( H-ICDA Code # )	Major Diagnosis	Total	General Practitioner	General Surgeon	Obstetrician- Gynecologist	Other M.D.	Total	General Practitioner	General Surgeon	Obstetrician- Gynecologist	Other M.D.
C.	TOTAL...	5537	655	1045	3733	104	100.00	11.83	18.87	67.42	1.88
1.	180-184.	522	33	79	390	20	100.00	6.32	15.13	74.71	3.83
2.	140-209*	19	1	7	8	3	100.00	5.26	36.84	42.11	15.79
3.	218-219.	713	80	152	470	11	100.00	11.22	21.32	65.92	1.54
4.	220-221.	97	9	12	76	0	100.00	9.28	12.37	78.35	.00
5.	612-616.	107	16	13	76	2	100.00	14.95	12.15	71.03	1.87
6.	620-629.	3792	476	716	2549	51	100.00	12.55	18.88	67.22	1.34
8.	OTHER DX	287	40	66	164	17	100.00	13.94	23.00	57.14	5.92

180-184 - Primary malignant neoplasm of female genitourinary organs  
 140-209 - Malignant neoplasms  
 218-219 - Uterine fibroma; other benign neoplasm of uterus  
 220-221 - Benign neoplasm of ovary; other female genital organs  
 612-616 - Diseases of ovary, fallopian tube, parametrium  
 620-629 - Diseases of the uterus and other female genital organs

TABLE 69

## DILATION AND CURETTAGE

Total Number of Cases and Mean Patient Age  
By Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #)		Number of Cases		Percent		Cumulative Percent		Mean Patient Age		(H-ICDA Code #)		Number of Cases		Percent		Cumulative Percent		Mean Patient Age	
Major Diagnosis										Major Diagnosis									
0.	553	100.00	.00	41.6	590.	3	.05	27.86	43.3										
9.	3	.05	.05	42.7	591.	1	.02	27.88	34.0										
11.	1	.02	.07	41.0	592.	1	.02	27.89	54.0										
16.	1	.02	.09	23.0	593.	1	.02	27.91	75.0										
79.	1	.02	.11	43.0	595.	5	.09	28.00	63.2										
112.	1	.02	.13	19.0	598.	1	.02	28.02	30.0										
131.	1	.02	.14	57.0	599.	3	.05	28.07	53.0										
152.	1	.02	.16	59.0	610.	24	.43	28.51	44.1										
157.	1	.02	.18	45.0	612.	1	.02	28.52	25.0										
171.	1	.02	.20	54.0	613.	2	.04	28.56	26.5										
174.	5	.09	.29	55.0	614.	4	.07	28.63	31.5										
180.	317	57.1	6.00	43.7	615.	40	.72	29.35	32.6										
182.	178	32.1	9.20	63.5	616.	46	.83	30.18	33.3										
183.	19	.34	9.54	61.8	620.	346	6.23	36.41	38.1										
184.	4	.07	9.62	53.7	621.	257	4.63	41.04	36.1										
188.	1	.02	9.63	69.0	622.	89	1.24	42.28	41.3										
195.	1	.02	9.65	62.0	623.	159	2.86	45.15	51.6										
197.	1	.02	9.67	45.0	624.	27	.49	45.63	32.0										
198.	3	.05	9.72	53.3	625.	450	8.10	53.74	43.5										
199.	1	.02	9.74	54.0	626.	2122	38.21	91.95	39.8										
201.	1	.02	9.76	22.0	627.	47	.85	92.80	48.8										
203.	1	.02	9.78	75.0	628.	94	1.69	94.49	26.1										
208.	1	.02	9.80	62.0	629.	49	.88	95.37	39.8										
211.	3	.05	9.85	63.3	631.	16	.29	95.66	28.1										
213.	1	.02	9.87	56.0	634.	5	.09	95.75	34.8										
215.	5	.09	9.96	47.0	635.	3	.05	95.80	21.7										
217.	2	.04	9.99	64.0	640.	3	.05	95.86	22.0										
218.	352	63.4	16.33	45.2	643.	75	1.35	97.21	27.3										
219.	319	57.4	22.08	48.2	646.	1	.02	97.23	36.0										
220.	65	1.17	23.25	38.4															
221.	29	.52	23.77	36.4															
227.	1	.02	23.79	66.0															
234.	3	.05	23.84	40.3															
235.	2	.04	23.88	39.5															
239.	3	.05	23.93	45.0															
241.	1	.02	23.95	51.0															
250.	11	.20	24.15	44.2															
253.	1	.02	24.17	26.0															
255.	1	.02	24.19	27.0															
256.	13	.23	24.42	27.9															
258.	41	.74	25.16	29.3															
272.	1	.02	25.18	75.0															
277.	8	.14	25.32	38.8															
280.	7	.13	25.45	44.7															
285.	4	.07	25.52	41.2															
289.	1	.02	25.54	20.0															

## H-ICDA Code Numbers:

- 626 - Disorders of menstruation
- 625 - Other diseases of uterus
- 218 - Uterine fibroma
- 620 - Infective diseases of cervix
- 219 - Other benign neoplasm of uterus
- 180 - Malignant neoplasm of cervix
- 621 - Other diseases of cervix
- 182 - Malignant neoplasm of corpus uteri
- 623 - Uterovaginal prolapse

1969-1971

The H-ICDA Codes for Prostatectomy are defined as follows:

- 65.1 - Prostatectomy, suprapubic
- 65.2 - Prostatectomy, transurethral
- 65.5 - Prostatectomy, other
- 65.3-65.4 - Prostatectomy, perineal and radical

Prostatectomies include males only.

Table H8 includes only the major diagnosis that is recorded in the first diagnostic position.

TABLE H1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Discharges Per 10,000 Person Years

TABLE H2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years, Total and Diagnosis of Hyperplasia of Prostate

TABLE H3: By Hospital Service Area of Residence, Probability of Having Prostatectomy by Given Age

TABLE H4: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Stay and Mean Adjusted by Age, Total and Transurethral Prostatectomies

TABLE H5: By Hospital, Number and Percent of Cases by Year

TABLE H6: By Hospital and Type of Surgery, Number of Cases and Mean Patient Age

TABLE H7: Number of Cases by Years of Patient Age and Type of Surgery

TABLE H8: Total Number of Cases by Major Diagnosis Explaining Admission and Type of Surgery



TABLE H1  
PROSTATECTOMIES  
By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission and Age Specific Discharges Per 10,000 Person Years  
Vermont, 1969-1971

		MALES												
		DISCHARGE RATE PER 10,000 PER YEAR												
		40	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+	
AREA	TOTAL	<40	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+	
TOTAL...	1360	8	9	15	43	120	179	258	271	228	150	63	16	
(01).....	65	0	0	0	2	6	4	17	11	10	8	7	0	
(02).....	54	0	0	0	1	1	10	12	13	6	10	1	0	
(03).....	37	0	0	0	0	2	5	5	6	10	4	3	2	
(04).....	65	0	0	3	1	6	12	15	14	10	3	1	0	
(05).....	94	0	0	1	0	9	11	15	26	18	10	4	0	
(06).....	105	1	1	4	4	3	11	13	31	21	6	7	3	
(07).....	42	0	0	0	1	1	6	13	10	16	4	1	0	
(08).....	76	0	0	0	2	5	8	8	23	17	11	3	1	
(09).....	79	1	0	0	2	9	9	11	15	17	11	3	1	
(10).....	184	5	1	1	8	12	21	33	32	38	26	6	1	
(11).....	185	0	1	3	6	21	32	37	30	29	19	6	1	
(12).....	348	1	6	3	16	40	48	74	56	43	39	17	5	
(13).....	26	0	0	0	0	5	2	5	4	4	2	4	0	
Total	40	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90+		
TOTAL...	24.9	.2	3.0	5.1	15.3	47.8	80.4	157.6	233.2	326.4	442.5	534.3		
(01).....	37.7	.0	.0	.0	21.3	74.9	50.1	255.1	280.2	414.9	615.9	1450.8		
(02).....	18.8	.0	.0	.0	6.6	6.7	69.9	100.2	179.9	108.5	343.1	96.4		
(03).....	33.8	.0	.0	.0	.0	34.2	92.6	130.6	252.8	558.8	556.1	1413.9		
(04).....	27.7	.0	.0	21.6	8.0	53.6	113.9	183.9	254.3	329.6	186.3	179.7		
(05).....	27.5	.0	.0	5.5	.0	52.3	64.3	128.4	259.9	303.8	391.4	478.2		
(06).....	22.0	.3	3.9	15.5	16.4	13.4	59.5	85.6	255.7	282.3	166.1	704.4		
(07).....	25.8	.0	.0	.0	12.8	13.4	90.5	248.3	296.4	335.6	757.5	287.8		
(08).....	25.4	.0	.0	.0	11.9	39.2	58.0	76.5	265.4	329.2	364.9	403.4		
(09).....	32.1	.7	.0	.0	11.0	55.3	76.8	156.7	292.7	424.7	572.0	473.7		
(10).....	25.8	1.1	2.5	2.5	19.7	32.3	64.6	142.5	184.7	350.8	469.0	358.0		
(11).....	24.8	.0	2.3	7.6	15.4	58.5	92.7	151.2	186.1	302.7	387.4	326.3		
(12).....	22.6	.1	7.3	3.9	24.0	71.2	107.7	233.5	259.0	378.9	708.8	867.7		
(13).....	18.4	.0	.0	.0	.0	86.8	38.7	115.2	128.5	232.4	250.2	1074.8		

TABLE H2

## PROSTATECTOMIES

By Hospital Service Area of Residence  
Observed, and Expected Number of Cases and Cases Per 10,000 Person Years  
Total and Diagnosis of Hyperplasia of Prostate  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases Per 10,000 Per Year				S.D.	Chi-Sq.	Rank
		Obs #	Exp #	Ratio	Crude Rate	Age- Adjusted					
TOTAL...	546876	1360	1360.0	1.00	24.9	30.6	.7	.0	0		
(01)...	17247	65	51.4	1.26	37.7	40.8	3.7	3.6	11		
(02)...	28716	54	88.9	.61	18.8	16.8	2.8	13.7	1	***	
(03)...	10935	37	31.0	1.19	33.8	43.3	4.8	1.2	13		
(04)...	23478	65	64.8	1.00	27.7	29.2	3.3	.0	8		
(05)...	34131	94	102.2	.92	27.5	26.9	2.6	.7	5		
(06)...	47736	105	126.1	.83	22.0	24.9	2.4	3.5	3		
(07)...	16278	42	38.8	1.08	25.8	34.6	4.4	.3	10		
(08)...	29931	76	85.8	.89	25.4	26.2	2.9	1.1	4		
(09)...	24573	79	72.0	1.10	32.1	34.6	3.2	.7	9		
(10)...	71304	184	198.9	.92	25.8	27.6	1.9	1.1	6		
(11)...	74676	185	195.4	.95	24.8	28.0	1.9	.6	7		
(12)...	153735	348	271.7	1.28	22.6	42.4	1.7	21.4	12	***	
(13)...	14136	26	33.1	.79	18.4	23.4	4.6	1.5	2		
DIAGNOSIS OF HYPERPLASIA OF PROSTATE											
TOTAL...	546876	1011	1011.0	1.00	18.5	21.2	.6	.0	0		
(01)...	17247	53	38.1	1.39	30.7	31.1	3.1	5.9	13	*	
(02)...	28716	40	65.9	.61	13.9	12.1	2.3	10.2	1	**	
(03)...	10935	27	23.0	1.17	24.7	26.6	4.0	.7	11		
(04)...	23478	49	48.2	1.02	20.9	21.0	2.6	.0	8		
(05)...	34131	76	76.0	1.00	22.3	20.8	2.2	.0	7		
(06)...	47736	78	93.7	.83	16.3	17.9	2.0	2.6	4		
(07)...	16278	32	28.9	1.11	19.7	25.4	3.7	.3	10	*	
(08)...	29931	48	63.8	.75	16.0	15.1	2.4	3.9	2		
(09)...	24573	58	53.2	1.09	23.6	23.7	2.7	.4	9		
(10)...	71304	130	147.8	.88	18.2	18.3	1.6	.0	5		
(11)...	74676	144	145.5	.99	19.3	20.6	1.6	.0	6		
(12)...	153735	257	202.2	1.27	16.7	27.9	1.4	14.9	12	***	
(13)...	14136	19	24.6	.77	13.4	16.1	3.9	1.3	3		

\* p<.05  
\*\* p<.02  
\*\*\* p<.01

TABLE H3

PROSTATECTOMIES  
By Hospital Service Area of Residence  
Probability of Having Prostatectomy By Given Age  
Vermont, 1969-1971

AREA	TOTAL..	35	40	45	50	55	60	65	70	75	80	85	
AREA.....	0.	.0000	.0000	.0009	.0024	.0049	.0125	.0358	.0738	.1440	.2384	.3533	.4821
(01).....	1.	.0000	.0000	.0000	.0000	.0000	.0106	.0469	.0705	.1820	.2891	.4227	.5768
(02).....	2.	.0000	.0000	.0000	.0000	.0000	.0033	.0066	.0407	.0876	.1662	.2102	.3350
(03).....	3.	.0000	.0000	.0000	.0000	.0000	.0000	.0169	.0615	.1208	.2253	.4152	.5580
(04).....	4.	.0000	.0000	.0000	.0000	.0107	.0147	.0407	.0938	.1735	.2723	.3831	.4380
(05).....	5.	.0000	.0000	.0000	.0000	.0027	.0027	.0285	.0592	.1177	.2254	.3347	.4533
(06).....	6.	.0000	.0000	.0013	.0032	.0110	.0190	.0256	.0541	.0938	.2027	.3078	.3630
(07).....	7.	.0000	.0000	.0000	.0000	.0000	.0064	.0130	.0567	.1670	.2819	.3931	.5863
(08).....	8.	.0000	.0000	.0000	.0000	.0000	.0060	.0252	.0531	.0886	.2020	.3234	.4365
(09).....	9.	.0000	.0000	.0027	.0027	.0027	.0082	.0352	.0716	.1416	.2587	.4010	.5509
(10).....	10.	.0000	.0000	.0044	.0057	.0069	.0167	.0324	.0632	.1276	.2046	.3329	.4729
(11).....	11.	.0000	.0000	.0000	.0011	.0049	.0126	.0410	.0845	.1512	.2267	.3355	.4528
(12).....	12.	.0000	.0000	.0004	.0040	.0059	.0178	.0522	.1019	.2010	.2982	.4196	.5943
(13).....	13.	.0000	.0000	.0000	.0000	.0000	.0000	.0425	.0608	.1134	.1686	.2599	.3471



TABLE H4

## PROSTATECTOMIES

By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Stay and Mean Adjusted By Age  
Total and Transurethral Prostatectomies  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)		
			Crude Mean	S.D.	Age- Adjusted
0.	1879	30113	16.03	11.49	16.03
1.	531	7209	13.58	12.26	13.74
2.	80	1003	12.54	7.33	11.96
3.	44	914	20.77	14.21	20.37
4.	52	976	18.77	9.99	18.63
5.	54	1257	23.28	10.94	22.96
6.	22	442	20.09	12.56	20.11
7.	3	118	39.33	4.50	39.23
9.	27	512	18.96	16.09	19.78
10.	187	2926	15.65	8.50	15.85
11.	51	963	18.88	12.84	17.72
12.	3	74	24.67	6.13	25.88
13.	48	752	15.67	8.42	15.87
14.	40	624	15.60	7.70	16.02
15.	98	1496	15.27	10.01	16.14
17.	100	1369	13.69	8.51	13.43
18.	219	5045	23.04	14.89	22.56
19.	1	13	13.00	.00	13.00
20.	317	4373	13.79	6.85	13.83
21.	2	47	23.50	7.50	23.74
-----					
TRANSURETHRAL PROSTATECTOMIES					
0.	1477	21672	14.67	11.35	14.67
1.	457	5955	13.03	12.69	13.10
2.	73	882	12.08	7.13	11.07
3.	43	883	20.53	14.29	19.92
4.	47	855	18.19	10.08	17.87
9.	23	380	16.52	14.72	16.94
10.	166	2510	15.12	8.73	15.29
11.	44	797	18.11	13.15	16.31
13.	35	476	13.60	6.07	12.79
14.	31	432	13.94	5.38	14.63
15.	82	1174	14.32	9.96	15.80
17.	81	1052	12.99	8.71	12.84
18.	145	3107	21.43	15.43	21.28
19.	1	13	13.00	.00	13.00
20.	249	3156	12.67	6.57	12.70

TABLE H5  
PROSTATECTOMIES  
By Hospital  
Number and Percent of Cases By Year  
Vermont, 1969-1971

HOSPITAL	TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	1868	612	662	594	100.0	32.8	35.4	31.8
1.	523	177	190	156	100.0	33.8	36.3	29.8
2.	80	21	28	31	100.0	26.3	35.0	38.8
3.	44	12	12	20	100.0	27.3	27.3	45.5
4.	52	18	17	17	100.0	34.6	32.7	32.7
5.	54	23	17	14	100.0	42.6	31.5	25.9
6.	22	6	7	9	100.0	27.3	31.8	40.9
7.	3	2	0	1	100.0	66.7	.0	33.3
8.	27	9	7	11	100.0	33.3	25.9	40.7
9.	187	69	70	48	100.0	36.9	37.4	25.7
10.	50	12	20	18	100.0	24.0	40.0	36.0
11.	3	2	0	1	100.0	66.7	.0	33.3
12.	48	2	12	34	100.0	4.2	25.0	70.8
13.	40	18	14	8	100.0	45.0	35.0	20.0
14.	97	25	42	30	100.0	25.8	43.3	30.9
15.	100	26	37	37	100.0	26.0	37.0	37.0
16.	218	79	71	68	100.0	36.2	32.6	31.2
17.	1	0	1	0	100.0	.0	100.0	.0
18.	317	110	116	91	100.0	34.7	36.6	28.7
19.	2	1	1	0	100.0	50.0	50.0	.0
20.								
21.								

TABLE H6

## PROSTATECTOMIES

By Hospital and Type of Surgery  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Total	Number of Cases			Total	Mean Age of Patient			
		651	652	655		651	652	655	653-654
J.	1379	305	1477	81	70.12	71.70	69.73	72.17	65.25
1.	531	28	457	31	67.98	69.43	67.75	71.42	65.40
2.	80	1	73	6	71.87	63.00	72.07	71.00	.00
3.	44	1	43	0	73.59	64.00	73.81	.00	.00
4.	52	5	47	0	73.00	71.20	73.19	.00	.00
5.	54	54	0	0	73.11	73.11	.00	.00	.00
6.	22	22	0	0	70.50	70.50	.00	.00	.00
7.	3	2	0	1	74.67	76.50	.00	71.00	.00
8.	27	3	23	1	71.33	76.33	70.48	76.00	.00
9.	187	20	166	1	69.81	71.80	69.56	72.00	.00
10.	51	7	44	0	72.20	71.14	72.36	.00	.00
11.	3	0	0	3	72.67	.00	.00	72.67	.00
12.	48	11	35	2	74.42	75.82	74.37	67.50	.00
13.	40	2	31	7	71.80	68.00	70.94	76.71	.00
14.	98	7	82	9	67.47	60.57	67.48	72.78	.00
15.	100	17	81	1	71.60	73.76	71.23	73.00	63.00
17.	219	74	145	0	70.66	72.58	69.68	.00	.00
18.	1	0	1	0	72.00	.00	72.00	.00	.00
19.	317	49	249	19	70.55	70.78	70.39	72.05	.00
20.	2	2	0	0	70.50	70.50	.00	.00	.00
21.									

## H-ICDA Code Numbers:

- 65.1 - Prostatectomy, suprapubic
- 65.2 - Prostatectomy, transurethral
- 65.5 - Prostatectomy, other
- 65.3-65.4 - Prostatectomy, perineal and radical

TABLE H7

PROSTATECTOMIES  
Number of Cases by Years of Patient Age and Type of Surgery  
Vermont, 1969-1971

Year of Age	Total	651	652	655	653-654	Year of Age	Total	651	652	655	653-654
U.	1879	305	1477	81	16	73.	68	21	42	5	0
16.	1	0	1	0	0	74.	82	20	58	4	0
26.	1	0	1	0	0	75.	72	11	55	5	1
30.	1	0	1	0	0	76.	71	9	56	5	1
31.	1	0	1	0	0	77.	56	16	38	2	0
32.	1	0	1	0	0	78.	62	8	51	2	1
35.	1	0	1	0	0	79.	50	10	36	4	0
36.	1	0	1	0	0	80.	41	6	32	3	0
37.	3	0	3	0	0	81.	43	10	29	4	0
39.	1	0	1	0	0	82.	43	5	37	1	0
40.	2	0	2	0	0	83.	46	9	36	1	0
41.	3	0	3	0	0	84.	32	3	29	0	0
42.	2	0	2	0	0	85.	27	3	23	1	0
43.	2	0	2	0	0	86.	21	4	16	1	0
44.	1	0	1	0	0	87.	25	1	19	2	0
45.	2	0	2	0	0	88.	8	1	6	1	0
46.	4	0	4	0	0	89.	12	1	10	1	0
47.	4	0	4	0	0	90.	10	2	8	0	0
48.	6	1	5	0	0	91.	5	0	4	1	0
49.	3	0	3	0	0	92.	4	0	4	0	0
50.	13	0	13	0	0	95.	1	0	1	0	0
51.	12	0	12	0	0						
52.	10	0	10	0	0						
53.	11	0	10	0	0						
54.	17	1	17	0	0						
55.	23	3	17	2	1						
56.	15	2	12	1	0						
57.	34	4	30	1	0						
58.	32	0	31	1	0						
59.	51	7	40	1	3						
60.	21	3	18	0	0						
61.	48	5	38	5	0						
62.	55	8	44	1	2						
63.	62	10	46	4	2						
64.	50	8	37	4	1						
65.	67	15	48	3	1						
66.	66	11	54	0	1						
67.	73	12	56	5	1						
68.	87	13	72	1	0						
69.	73	10	62	1	0						
70.	75	18	52	4	1						
71.	85	14	68	3	0						
72.	80	17	61	2	0						

## H-ICDA Code Numbers:

- 65.1 - Prostatectomy, suprapubic
- 65.2 - Prostatectomy, transurethral
- 65.5 - Prostatectomy, other
- 65.3-65.4 - Prostatectomy, perineal and radical

TABLE H8

PROSTATECTOMIES  
Total Number of Cases by Major Diagnosis Explaining Admission and Type of Surgery  
Vermont, 1969-1971

(H-ICDA Code #)		(H-ICDA Code #)					(H-ICDA Code #)					
Major Diagnosis	Total	Number of Cases		Major Diagnosis			Total	Number of Cases		Major Diagnosis		
		651	652	655	653-654			651	652	655	653-654	
0.	1859	302	1461	80	16	440.	6	0	6	0	0	
9.	1	0	1	0	0	441.	1	0	1	0	0	
38.	1	0	1	0	0	443.	1	0	1	0	0	
136.	1	0	1	0	0	445.	1	0	1	0	0	
142.	1	0	1	0	0	450.	2	0	1	0	0	
153.	1	0	1	0	0	451.	1	0	1	0	0	
154.	4	0	4	0	0	455.	2	0	2	0	0	
156.	1	0	1	0	0	458.	1	0	1	0	0	
162.	3	1	2	0	0	465.	1	1	0	0	0	
173.	1	0	1	0	0	470.	1	0	1	0	0	
185.	239	31	193	7	8	481.	1	0	1	0	0	
188.	30	2	28	0	0	485.	2	0	2	0	0	
198.	5	0	5	0	0	486.	2	0	2	0	0	
207.	1	1	0	0	0	489.	1	0	1	0	0	
210.	1	1	0	0	0	492.	3	0	3	0	0	
213.	1	0	1	0	0	493.	2	0	2	0	0	
223.	3	1	2	0	0	531.	1	0	2	0	0	
237.	1	0	1	0	0	532.	3	0	1	0	0	
250.	7	1	6	0	0	533.	1	0	1	0	0	
269.	1	0	1	0	0	540.	1	0	1	0	0	
281.	2	0	2	0	0	550.	8	1	7	0	0	
287.	1	0	1	0	0	551.	1	0	1	0	0	
289.	1	0	1	0	0	553.	2	1	1	0	0	
299.	1	0	1	0	0	562.	3	1	2	0	0	
303.	1	0	1	0	0	566.	1	0	1	0	0	
309.	4	0	4	0	0	569.	3	0	3	0	0	
340.	3	0	3	0	0	574.	1	0	1	0	0	
342.	1	0	1	0	0	575.	1	0	1	0	0	
343.	1	0	1	0	0	577.	2	2	0	0	0	
345.	1	0	1	0	0	583.	3	2	0	0	0	
348.	1	0	1	0	0	590.	6	2	0	0	0	
349.	2	0	2	0	0	592.	1	2	0	0	0	
354.	1	0	1	0	0	593.	6	4	0	0	0	
357.	1	0	1	0	0	594.	9	4	0	0	0	
398.	1	0	1	0	0	595.	10	0	0	0	0	
401.	15	1	14	3	0	596.	25	0	0	0	0	
410.	20	1	16	0	0	597.	1	0	0	0	0	
412.	1	0	1	0	0	598.	15	1	0	0	0	
425.	1	0	1	0	0	599.	10	1	0	0	0	
427.	1	0	1	0	0	600.	1256	957	67	0	0	
436.	2	0	2	0	0	601.	33	226	28	0	0	
437.	2	0	2	0	0			4				
438.	2	0	2	0	0							

TABLE H8 CONTINUED

PROSTATECTOMIES

Total Number of Cases by Major Diagnosis Explaining Admission and Type of Surgery

Vermont, 1969-1971

(H-ICDA Code #) Major Diagnosis	Total	Number of Cases			653-654
		651	652	655	
602.	6	0	6	0	0
603.	4	0	4	0	0
604.	3	1	2	0	0
610.	1	0	1	0	0
611.	1	1	0	0	0
682.	1	0	1	0	0
696.	1	0	1	0	0
712.	1	0	1	0	0
713.	6	2	4	0	0
721.	1	0	1	0	0
723.	1	0	1	0	0
753.	2	0	2	0	0
757.	1	0	1	0	0
782.	1	0	1	0	0
783.	1	0	1	0	0
785.	2	1	1	0	0
786.	28	6	22	0	0
788.	1	0	1	0	0
789.	12	1	9	1	1

H-ICDA Code Numbers:

- Procedure
- 65.1 - Prostatectomy, suprapubic
  - 65.2 - Prostatectomy, transurethral
  - 65.5 - Prostatectomy, other
  - 65.3-65.4 - Prostatectomy, perineal and radical
- Diagnosis
- 600 - Hyperplasia of prostate
  - 185 - Malignant neoplasm of prostate
  - 601 - Prostatitis
  - 188 - Malignant neoplasm of bladder



## APPENDIX I:

## HYSTERECTOMIES

1969-1971

The H-ICDA Codes for Hysterectomy are defined as follows:

- 71.0 - Abdominal hysterectomy, subtotal
- 71.1 - Abdominal hysterectomy, total
- 71.2 - Abdominal hysterectomy, radical
- 71.3 - Vaginal hysterectomy, total and subtotal
- 71.4 - Vaginal hysterectomy, radical

Hysterectomies include females only.

Table I9 includes only the major diagnosis that is recorded in the first diagnostic position.

- TABLE I1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Discharge Rates Per 10,000 Person Years
- TABLE I2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years
- TABLE I3: By Hospital Service Area of Residence, Probability of Having Hysterectomy by Given Age
- TABLE I4: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Stay and Mean Adjusted by Age, Total and Abdominal Hysterectomy (Total)
- TABLE I5: Number of Cases Per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons
- TABLE I6: By Hospital, Number and Percent of Cases by Year
- TABLE I7: By Hospital and Type of Surgery, Number of Cases and Mean Patient Age
- TABLE I8: Total Number of Cases by Years of Patient Age and Type of Surgery
- TABLE I9: Total Number of Cases by Type of Surgery and Major Diagnosis Explaining Admission





TABLE 11

## HYSTERECTOMIES

By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission and Age Specific Discharge Rates Per 10,000 Person Years  
Vermont, 1969-1971

AREA	FEMALES															DISCHARGE RATE PER 10,000 PER YEAR														
	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	TOTAL	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+		
TOTAL...	2366	2	32	116	266	338	483	442	253	98	94	96	74	72	41.2	.1	7.7	30.7	88.3	121.7	170.7	170.3	113.7	50.4	53.9	64.7	60.2	37.1		
SHED-1	66	0	0	5	6	8	19	9	3	3	2	5	2	4	38.7	.0	.0	51.0	69.1	98.0	222.8	113.7	45.8	41.7	33.7	94.6	49.5	56.0		
SHED-2	93	0	0	3	8	9	26	14	11	3	5	4	4	6	31.0	.0	.0	18.6	53.3	57.6	159.1	90.2	82.4	25.2	43.7	36.8	42.3	42.6		
SHED-3	35	0	0	2	3	5	9	5	5	2	2	0	1	1	30.1	.0	.0	29.8	49.0	96.3	158.2	81.4	90.7	45.2	47.2	.0	30.4	18.9		
SHED-4	86	0	0	2	4	11	23	19	10	2	2	7	3	3	33.7	.0	.0	12.3	31.9	90.5	170.9	155.7	93.9	19.4	19.8	84.4	41.9	23.9		
SHED-5	120	0	3	2	11	16	23	22	14	6	8	8	6	1	32.6	.0	12.8	8.9	61.9	91.2	114.6	123.9	90.2	39.9	54.0	60.3	57.1	5.8		
SHED-6	229	0	3	12	28	28	49	49	28	10	4	2	11	5	46.5	.0	8.7	39.9	122.9	123.4	204.0	238.5	159.0	64.4	34.2	16.6	106.0	34.8		
SHED-7	66	0	2	1	7	15	9	13	7	1	4	2	2	3	40.2	.0	15.7	8.5	73.6	184.9	129.4	186.2	103.5	18.7	78.0	54.0	63.0	56.9		
SHED-8	159	0	2	6	14	22	37	27	16	6	6	6	8	10	51.4	.0	10.6	35.2	96.5	152.3	254.3	197.1	135.2	61.8	98.3	112.7	123.4	33.4		
SHED-9	161	0	2	4	13	22	33	19	31	8	9	9	7	17	64.2	.0	12.3	27.6	105.3	204.8	278.2	198.1	289.6	85.9	85.5	125.6	158.2	132.2		
SHED-10	325	0	2	14	36	40	56	70	32	10	19	16	13	10	41.5	.0	3.6	29.7	93.4	115.2	146.4	190.0	95.4	34.8	73.5	75.1	64.8	52.5		
SHED-11	317	0	6	20	40	54	65	62	18	17	9	14	6	6	39.7	.0	11.4	38.9	93.5	134.8	175.4	180.6	53.7	55.6	61.2	61.2	33.1	20.9		
SHED-12	666	2	10	41	95	101	125	128	72	27	23	20	10	12	29.4	.3	7.6	32.8	102.3	123.9	160.2	191.2	135.2	64.6	60.7	61.2	42.7	32.7		
SHED-13	43	0	2	4	1	7	9	5	6	3	1	3	1	1	29.4	.0	18.9	42.3	12.9	102.2	107.4	74.2	105.8	62.7	19.6	71.4	30.9	18.8		

TABLE 12

## HYSTERECTOMIES

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
Vermont, 1969-1971

Area	Person Years	Number of Cases			Cases Per 10,000 Per Year				
		Obs #	Exp #	Ratio	Crude Rate	Age- Adjusted	S.D.	Chi.Sq.	Rank
TOTAL...	0.	2366	2366.0	1.00	41.2	49.9	.9	.0	0
SHED-1	1.	66	71.4	.92	38.7	45.1	5.3	.4	6
SHED-2	2.	93	129.0	.72	31.0	33.5	3.9	10.0	1
SHED-3	3.	35	49.2	.71	30.1	33.9	6.2	4.1	2
SHED-4	4.	86	107.2	.80	33.7	38.0	4.3	4.2	5
SHED-5	5.	120	155.9	.77	32.6	36.4	3.6	8.3	4
SHED-6	6.	229	197.1	1.16	46.6	59.8	3.2	5.1	11
SHED-7	7.	66	66.0	1.00	40.2	49.8	5.6	.0	9
SHED-8	8.	159	127.3	1.25	51.4	65.9	4.0	7.9	12
SHED-9	9.	161	112.9	1.43	64.2	80.8	4.3	20.5	13
SHED-10	10.	325	325.3	1.00	41.5	49.7	2.5	.0	8
SHED-11	11.	317	331.6	.96	39.7	47.1	2.5	.6	7
SHED-12	12.	666	633.7	1.05	41.9	52.8	1.8	1.6	10
SHED-13	13.	43	59.5	.72	29.4	34.4	5.9	4.6	3

TABLE 13

## HYSTERECTOMIES

By Hospital Service Area of Residence  
Probability of Having Hysterectomy by Given Age  
Vermont, 1969-1971

AREA	TOTAL	15	20	25	30	35	40	45	50	55	60	65	70	75
AREA.....	.0000	.0000	.0000	.0002	.0040	.0192	.0616	.1170	.1893	.2555	.2966	.3141	.3324	.3536
SHED-1	.0000	.0000	.0000	.0000	.0000	.0252	.0583	.1033	.1979	.2423	.2594	.2747	.2868	.3198
SHED-2	.0000	.0000	.0000	.0000	.0000	.0093	.0353	.0827	.1344	.1726	.2060	.2159	.2329	.2469
SHED-3	.0000	.0000	.0000	.0000	.0000	.0148	.0386	.0838	.1535	.1873	.2234	.2407	.2584	.2584
SHED-4	.0000	.0000	.0000	.0000	.0000	.0061	.0218	.0651	.1417	.2060	.2425	.2498	.2572	.2879
SHED-5	.0000	.0000	.0000	.0000	.0043	.0108	.0409	.0837	.1347	.1867	.2226	.2379	.2582	.2803
SHED-6	.0000	.0000	.0000	.0000	.0078	.0120	.0477	.1319	.2309	.3085	.3614	.3817	.3972	.3972
SHED-7	.0000	.0000	.0000	.0000	.0053	.0226	.0686	.1370	.2401	.2587	.2961	.3026	.3293	.3472
SHED-8	.0000	.0000	.0000	.0000	.0061	.0198	.0700	.1606	.2498	.3185	.3565	.3761	.4060	.4386
SHED-9	.0000	.0000	.0000	.0000	.0018	.0165	.0614	.1139	.2312	.2512	.2861	.2984	.3237	.3487
SHED-10	.0000	.0000	.0000	.0000	.0057	.0248	.0694	.1301	.2031	.2570	.2834	.2984	.3242	.3445
SHED-11	.0000	.0000	.0000	.0000	.0044	.0206	.0695	.1254	.1927	.2664	.2934	.3128	.3242	.3453
SHED-12	.0000	.0000	.0000	.0006	.0094	.0301	.0844	.1323	.1639	.2070	.2315	.2361	.2560	.2765
SHED-13	.0000	.0000	.0000	.0000	.0094	.0301	.0844	.1323	.1639	.2070	.2315	.2361	.2560	.2765

TABLE 14

## HYSTERECTOMIES

By Hospital, Number, of Cases, Total Hospital Days, Mean Length of Stay and Mean Adjusted by Age  
Total and Abdominal Hysterectomy (Total)

Vermont, 1969-1971

Hospital	TOTAL				ABDOMINAL HYSTERECTOMY (TOTAL)			
	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)		Number of Cases	Total Days	Mean Length of Hospital Stay (Days)	
			Crude Mean	S.D. Age- Adjusted			Crude Mean	S.D. Age- Adjusted
0.	3057	32623	10.67	5.90	2225	22857	10.27	4.94
1.	669	6365	9.51	5.20	484	4320	8.93	4.34
2.	204	2218	10.87	5.84	131	1398	10.67	4.78
3.	84	970	11.55	3.60	70	787	11.24	3.18
4.	146	1682	11.52	7.81	116	1252	10.79	4.96
5.	176	1756	9.98	3.86	139	1348	9.70	3.24
6.	61	717	11.75	4.37	52	608	11.69	4.18
7.	21	396	18.86	16.37	17	343	20.18	17.93
8.	71	713	10.04	5.01	63	641	10.17	5.27
9.	303	2965	9.79	3.29	186	1737	9.34	3.43
10.	75	866	11.55	5.51	60	699	11.65	5.21
11.	42	42	14.00	2.94	3	42	14.00	2.94
12.	184	2187	11.89	10.31	79	845	10.70	6.70
13.	34	314	9.24	3.57	31	272	8.77	2.14
14.	101	1086	10.75	4.18	78	845	10.83	4.42
15.	1	8	8.00	.00	134	1313	9.80	3.48
16.	178	1808	10.16	5.68	277	3270	11.81	6.08
17.	359	4371	12.18	6.83	15	152	10.13	4.30
18.	18	182	10.11	4.09	284	2932	10.32	3.75
19.	363	3924	10.81	4.04	6	53	8.83	.90
20.	6	53	8.83	.90				
21.								

TABLE 15

HYSTERECTOMIES  
Number of Cases Per Surgeon, Total Cases  
Performed by Vermont Physicians and Surgeons, 1969-1971

Number of Cases	Physicians			Hysterectomies		
	Number	%	Cumulative Number	Number	%	Cumulative Number
1	32	28.83	32	32	1.05	32
2	4	3.60	36	8	.26	40
3	7	6.31	43	21	.69	61
4	3	2.70	46	12	.39	73
5	2	1.80	48	10	.33	83
6	2	1.80	50	12	.39	95
7	1	.90	51	7	.23	102
8	2	1.80	53	16	.53	118
9	1	.90	54	9	.30	127
10	2	1.80	56	20	.66	147
11	1	.90	57	11	.36	158
12	1	.90	58	14	.46	172
13	1	.90	59	60	1.97	232
14	4	3.60	63	16	.53	248
15	1	.90	64	17	.56	265
16	1	.90	65	36	1.18	301
17	2	1.80	67	40	1.32	341
18	2	1.80	69	21	.69	362
19	1	.90	70	22	.72	384
20	1	.90	71	115	3.79	499
21	5	4.50	76	48	1.58	547
22	3	2.70	79	78	2.57	625
23	2	1.80	81	28	.92	653
24	1	.90	82	29	.95	682
25	1	.90	83	30	.99	712
26	1	.90	84	31	1.02	743
27	2	1.80	86	74	2.44	817
28	1	.90	87	41	1.35	858
29	1	.90	88	45	1.48	903
30	1	.90				
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						

TABLE 15 CONTINUED  
HYSTERECTOMIES  
Number of Cases Per Surgeon, Total Cases  
Performed by Vermont Physicians and Surgeons, 1969-1971

Number of Cases	Physicians			Hysterectomies		
	Number	%	Cumulative Number	Number	%	Cumulative Number
51	1	.90	89	51	1.68	954
52	1	.90	90	52	1.71	1006
54	1	.90	91	56	1.84	1062
65	1	.90	92	65	2.14	1127
66	1	.90	93	66	2.17	1193
69	1	.90	94	69	2.27	1262
70	1	.90	95	70	2.30	1332
72	1	.90	96	72	2.37	1404
73	1	.90	97	73	2.40	1477
74	1	.90	98	74	2.44	1551
81	2	1.80	100	162	5.33	1713
89	1	.90	101	89	2.93	1802
94	1	.90	102	94	3.09	1896
102	1	.90	103	102	3.36	1998
109	1	.90	104	109	3.59	2107
118	1	.90	105	118	3.88	2225
121	1	.90	106	121	3.98	2346
125	1	.90	107	125	4.11	2471
129	1	.90	108	129	4.25	2600
140	1	.90	109	140	4.61	2740
147	1	.90	110	147	4.84	2887
151	1	.90	111	151	4.97	3038

HYSTERECTOMIES  
By Hospital  
Number and Percent of Cases by Year  
Vermont, 1969-1971

TABLE 16

	HOSPITAL TOTAL..	1969...	1970...	1971...	TOTAL..	1969...	1970...	1971...
0.	3057	864	1066	1127	100.0	28.3	34.9	36.9
1.	669	200	215	254	100.0	29.9	32.1	38.0
2.	204	41	90	73	100.0	20.1	44.1	35.8
3.	84	28	20	36	100.0	33.3	23.8	42.9
4.	146	33	64	49	100.0	22.6	43.8	33.6
5.	176	71	57	48	100.0	40.3	32.4	27.3
6.	61	25	22	14	100.0	41.0	36.1	23.0
7.	21	5	13	3	100.0	23.8	61.9	14.3
8.	71	14	25	32	100.0	19.7	35.2	45.1
9.	303	92	100	111	100.0	30.4	33.0	36.6
10.	75	20	23	32	100.0	26.7	30.7	42.7
11.	3	2	0	1	100.0	66.7	.0	33.3
12.	184	37	73	74	100.0	20.1	39.7	40.2
13.	34	12	13	9	100.0	35.3	38.2	26.5
14.	101	43	31	27	100.0	42.6	30.7	26.7
15.	1	0	1	0	100.0	.0	100.0	.0
16.	178	51	63	64	100.0	28.7	35.4	36.0
17.	359	90	131	138	100.0	25.1	36.5	38.4
18.	18	6	9	3	100.0	33.3	50.0	16.7
19.	363	94	114	155	100.0	25.9	31.4	42.7
20.	6	0	2	4	100.0	.0	33.3	66.7
21.								

TABLE 17

## HYSTERECTOMIES

By Hospital and Type of Surgery  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Number of Cases					Mean Age of Patient						
	Total	710	711	712	713	714	Total	710	711	712	713	714
0.	3034	100	2206	29	686	13	45.9	45.4	44.4	42.1	50.7	50.1
1.	662	7	479	18	153	5	44.0	45.4	44.0	43.4	44.0	46.8
2.	204	43	131	2	28	0	45.4	46.5	43.9	40.0	51.4	.0
3.	84	4	70	0	10	0	45.2	36.7	45.1	.0	49.9	.0
4.	145	3	115	1	26	0	46.4	45.0	43.7	53.0	58.3	.0
5.	176	0	139	1	35	1	46.2	.0	43.5	35.0	56.2	84.0
6.	61	3	52	0	6	0	45.4	48.7	43.3	.0	61.5	.0
7.	21	1	17	0	3	0	57.4	48.0	55.5	.0	71.7	.0
8.	70	1	62	0	6	1	44.9	35.0	42.2	.0	72.5	58.0
9.	302	10	185	2	103	2	43.2	43.9	42.1	42.5	45.2	38.0
10.	75	2	60	0	13	0	46.4	66.5	42.8	.0	59.9	.0
11.	3	0	3	0	0	0	38.3	.0	38.3	.0	.0	.0
12.	184	0	79	1	101	2	48.4	75.0	45.9	53.0	50.0	51.5
13.	33	1	30	0	3	0	47.3	.0	46.2	.0	57.7	.0
14.	100	0	77	0	21	0	47.9	49.5	45.9	.0	55.1	.0
15.	1	1	0	0	0	0	38.0	38.0	.0	.0	.0	.0
16.	178	0	134	0	40	2	46.2	.0	44.5	34.5	52.5	48.0
17.	356	16	274	2	66	0	48.1	45.3	44.6	.0	63.0	.0
18.	18	1	15	0	2	0	41.1	34.0	40.1	.0	51.5	.0
19.	356	5	279	2	70	0	47.3	34.8	47.1	32.5	49.4	.0
20.	5	0	5	0	0	0	41.2	.0	41.2	.0	.0	.0
21.												

## H-ICDA Code Numbers:

- 71.0 - Abdominal hysterectomy, subtotal
- 71.1 - Abdominal hysterectomy, total
- 71.2 - Abdominal hysterectomy, radical
- 71.3 - Vaginal hysterectomy, total and subtotal
- 71.4 - Vaginal hysterectomy, radical



TABLE 18

## HYSTERECTOMIES

Total Number of Cases by Years of Patient Age and Type of Surgery  
Vermont, 1969-1971

Year of Age	Total	Number of Cases				Year of Age	Total	Number of Cases				
		710	711	712	713			710	711	712	713	714
0.	3057	100	2225	29	690	13						
18.	2	0	2	0	0	0						
19.	1	1	0	0	0	0						
20.	2	1	0	0	1	0						
21.	2	0	1	0	0	0						
22.	5	0	5	0	0	0						
23.	9	0	8	1	0	0						
24.	19	0	14	2	3	0						
25.	18	1	13	0	5	0						
26.	19	0	21	1	5	0						
27.	27	0	17	1	8	0						
28.	36	4	41	0	15	0						
29.	52	3	49	0	23	0						
30.	57	1	45	1	12	1						
31.	74	0	60	1	13	0						
32.	59	1	60	0	17	0						
33.	76	2	44	4	9	0						
34.	76	3	65	0	14	0						
35.	69	0	72	1	17	0						
36.	75	4	86	1	14	1						
37.	92	1	74	1	14	2						
38.	107	4	76	0	20	0						
39.	89	7	108	1	25	0						
40.	103	5	101	2	16	0						
41.	139	5	97	1	16	0						
42.	124	5	96	0	17	0						
43.	119	2	87	2	18	0						
44.	117	6	97	1	20	0						
45.	113	7	105	1	16	0						
46.	125	3	96	0	12	0						
47.	112	4	86	1	16	0						
48.	105	2	61	0	14	0						
49.	78	3	69	0	9	0						
50.	80	2	48	0	15	0						
51.	65	1	43	2	6	1						
52.	53	2	34	0	12	0						
53.	47	1	19	0	10	0						
54.	32	0	20	0	7	0						
55.	34	4	18	0	9	0						
56.	28	0	20	0	1	1						
57.	28	0	13	0	9	1						
58.	25	2		0		1						
59.												

## H-ICDA Code Numbers:

71.0 - Abdominal hysterectomy, subtotal  
 71.1 - Abdominal hysterectomy, total  
 71.2 - Abdominal hysterectomy, radical  
 71.3 - Vaginal hysterectomy, total and subtotal  
 71.4 - Vaginal hysterectomy, radical

TABLE 19

HYSTERECTOMIES  
Total Number of Cases by Type of Surgery and Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #) Major Diagnosis	Total	Number of Cases					(H-ICDA Code #) Major Diagnosis	Total	Number of Cases					714
		710	711	712	713	714			710	711	712	713	714	
0.	3035	100	2207	29	686	13	410.	1	0	1	0	0	0	0
146.	1	0	0	1	0	0	412.	5	0	3	0	0	0	0
156.	1	0	1	0	0	0	427.	1	1	0	0	0	0	0
170.	1	0	1	0	0	0	443.	1	0	1	0	0	0	0
171.	3	1	2	0	0	0	444.	1	0	1	0	0	0	0
174.	5	2	3	0	0	0	446.	1	0	1	0	0	0	0
180.	220	3	173	19	21	4	451.	1	0	1	0	0	0	0
182.	150	10	138	0	0	0	452.	1	0	0	0	0	0	0
183.	42	5	37	0	0	0	486.	1	0	0	0	0	0	0
184.	1	0	1	0	0	0	492.	1	0	1	0	0	0	0
198.	5	1	4	0	0	0	540.	1	1	0	0	0	0	0
211.	1	1	0	0	0	0	551.	2	0	0	0	0	0	0
215.	3	0	3	0	0	0	553.	1	0	0	0	0	0	0
218.	740	16	692	2	30	0	562.	1	0	1	0	0	0	0
219.	49	3	42	0	4	0	568.	7	0	7	0	0	0	0
220.	94	1	92	1	0	0	569.	3	1	1	0	0	0	0
221.	5	0	4	1	0	0	574.	2	0	2	0	0	0	0
226.	1	0	1	0	0	0	593.	3	0	1	0	0	0	0
234.	2	0	2	0	0	0	595.	3	1	0	0	0	0	0
235.	1	0	1	0	0	0	596.	1	0	0	0	0	0	0
241.	1	0	0	0	0	0	598.	2	0	2	0	0	0	0
256.	3	0	3	0	0	0	612.	1	0	0	0	0	0	0
258.	2	0	2	0	0	0	613.	8	0	8	0	0	0	0
277.	3	1	1	0	1	0	614.	10	1	9	0	0	0	0
280.	5	0	4	0	1	0	615.	55	2	52	0	1	0	0
287.	1	1	1	0	1	0	616.	121	5	113	0	3	0	0
304.	1	1	0	0	0	0	620.	73	2	61	0	10	0	0
306.	1	0	0	0	0	0	621.	58	2	51	0	5	0	0
310.	2	0	1	0	0	0	622.	7	0	7	0	4	0	0
357.	1	0	2	0	1	0	623.	584	0	20	0	4	0	0
379.	1	0	1	0	0	0	624.	25	1	25	0	21	0	0
391.	1	0	1	0	0	0	625.	263	14	225	3	41	0	0
394.	1	0	1	0	0	0	626.	342	13	286	2	0	0	0
401.	1	0	1	0	0	0	627.	6	0	6	0	0	0	0

TABLE 19 CONTINUED  
HYSTERECTOMIES  
Total Number of Cases by Type of Surgery and Major Diagnosis Explaining Admission  
Vermont, 1969-1971

(H-ICDA Code #) Major Diagnosis	Total	710	711	712	713	714
628.	1	0	1	0	0	0
629.	3	0	2	0	1	0
630.	1	0	1	0	0	0
631.	3	0	3	0	0	0
634.	3	0	2	0	1	0
635.	2	0	2	0	0	0
640.	5	0	5	0	0	0
643.	1	0	1	0	0	0
646.	1	0	1	0	0	0
651.	1	1	0	0	0	0
652.	2	1	1	0	0	0
653.	1	0	1	0	0	0
655.	1	0	1	0	0	0
656.	1	0	1	0	0	0
661.	2	1	1	0	0	0
677.	1	1	0	0	0	0
695.	1	0	1	0	0	0
706.	2	0	1	0	1	0
712.	1	0	1	0	0	0
728.	1	0	1	0	0	0
751.	1	0	1	0	0	0
752.	4	1	3	0	0	0
785.	6	0	5	0	1	0
786.	43	0	21	0	21	1
793.	5	0	3	0	2	0

H-ICDA Code Numbers:

Procedure.

71.0 - Abdominal hysterectomy, subtotal  
71.1 - Abdominal hysterectomy, total  
71.2 - Abdominal hysterectomy, radical  
71.3 - Vaginal hysterectomy, total and subtotal  
71.4 - Vaginal hysterectomy, radical

Diagnosis

218 - Uterine fibroma  
623 - Uterovaginal prolapse  
626 - Disorders of menstruation  
625 - Other diseases of uterus  
180 - Malignant neoplasm of cervix uteri

1969-1971

The H-ICDA Codes for Mastectomy are defined as follows:

- 39.1 - Partial mastectomy
- 39.2 - Complete mastectomy
- 39.3 - Extended simple mastectomy
- 39.4 - Radical mastectomy
- (39.5 - extended radical mastectomy was excluded from the following tables. There were 12 cases over the 3 years.)

The H-ICDA Codes for diagnoses are as follows:

- 174 - Malignant neoplasm of breast
- 610-611 - Chronic cystic disease and other diseases of the breast

Mastectomies include females only.

Diagnoses, as listed above, may appear in any one of the four diagnostic positions. Table J6 includes only the major diagnosis that is recorded in the first diagnostic position.

TABLE J1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission, Total and Diagnosis of Malignant Neoplasm of Breast

TABLE J2: By Hospital Service Area of Residence, Observed and Expected Number of Cases and Cases Per 10,000 Person Years, Total and Diagnoses of Malignant Neoplasm of Breast, Chronic Cystic Disease and Other Diseases of Breast

TABLE J3: By Hospital, Number of Cases, Total Hospital Days, Mean Length of Hospital Stay and Mean Adjusted by Age

TABLE J4: By Hospital and Diagnosis, Number of Cases by Year

TABLE J5: By Hospital and Type of Surgery, Number of Cases and Mean Patient Age

TABLE J6: Total Number of Cases by Type of Surgery and Major Diagnosis Explaining Admission



TABLE J1

## MASTECTOMIES

By Hospital Service Area of Residence  
 Number of Cases by Patient Age at Admission  
 Total and Diagnosis of Malignant Neoplasm of Breast  
 Vermont, 1969-1971

AREA	TOTAL.	<20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+...
TOTAL...	1233	61	0	156	73	95	168	174	104	83	79	72	67	101
SHED-1	51	5	0	6	2	7	8	3	2	4	2	2	1	9
SHED-2	51	1	0	5	2	3	6	5	4	3	3	4	5	10
SHED-3	25	0	0	2	3	1	3	1	1	1	3	1	2	3
SHED-4	52	1	0	7	2	1	11	10	4	2	4	1	3	6
SHED-5	94	3	0	8	14	10	21	13	17	13	11	10	6	9
SHED-6	164	7	0	23	13	12	33	23	3	11	9	10	8	9
SHED-7	28	2	0	9	3	1	7	3	3	3	3	0	3	2
SHED-8	79	10	0	9	3	6	14	14	9	4	2	5	2	8
SHED-9	56	6	0	5	2	2	5	10	10	4	6	2	3	7
SHED-10	160	4	0	30	8	9	22	22	10	13	8	9	8	17
SHED-11	176	9	0	22	14	16	33	22	13	10	10	12	9	16
SHED-12	268	11	0	31	19	25	40	35	31	14	16	16	16	14
SHED-13	29	2	0	6	1	2	2	9	2	1	2	0	1	1
DIAGNOSIS OF MALIGNANT NEOPLASM OF BREAST														
TOTAL...	443	0	0	0	3	10	36	46	48	49	53	57	51	81
SHED-1	13	0	0	0	0	0	0	0	1	1	2	2	1	5
SHED-2	26	0	0	1	0	0	2	0	3	3	2	4	3	8
SHED-3	15	0	0	0	0	0	1	3	1	1	3	1	2	3
SHED-4	19	0	0	0	0	0	3	2	2	1	2	0	3	6
SHED-5	46	0	0	0	0	1	2	3	2	11	7	8	5	7
SHED-6	38	0	0	0	0	1	1	1	8	1	3	8	4	8
SHED-7	6	0	0	0	0	0	0	1	1	1	0	0	2	1
SHED-8	25	0	0	0	0	0	0	4	0	3	2	4	2	6
SHED-9	17	0	0	0	0	0	0	1	1	1	6	1	3	6
SHED-10	60	0	0	0	0	3	4	5	3	8	6	8	7	14
SHED-11	59	0	0	0	1	0	9	7	5	8	6	9	6	19
SHED-12	112	0	0	0	0	0	14	16	17	8	13	12	12	18
SHED-13	7	0	0	0	1	0	0	3	1	0	0	0	1	0

TABLE J2

## MASTECTOMIES

By Hospital Service Area of Residence  
Observed and Expected Number of Cases and Cases Per 10,000 Person Years  
Total and Diagnoses of Malignant Neoplasm of Breast, Chronic Cystic Disease and Other Diseases of Breast  
Vermont, 1969-1971

		Cases Per 10,000 Per Year									
		Number of Cases		Ratio	Crude	Age -	S.D.	Chi. Sq.	Rank		
Area	Person	Obs #	Exp #		Rate	Adjusted					
TOTAL...	574260	1233	1233.0	1.00	21.5	21.5	.6	.0	0		
SHED-1	17070	51	37.5	1.36	29.9	29.2	3.5	4.9	12		
SHED-2	29958	51	67.2	.76	17.0	15.9	2.6	3.9	1		
SHED-3	11646	25	25.9	.96	21.5	20.4	4.1	.0	6		
SHED-4	25545	52	57.3	.91	20.4	19.4	2.8	.5	4		
SHED-5	36834	94	83.1	1.13	25.5	23.7	2.3	1.4	10		
SHED-6	49263	164	103.1	1.59	33.3	34.3	2.1	36.0	13		
SHED-7	16425	28	34.5	.81	17.0	17.4	3.5	1.2	2		
SHED-8	30921	79	66.6	1.19	25.5	25.5	2.6	2.3	11		
SHED-9	25074	56	58.3	.96	22.3	20.6	2.8	.1	8		
SHED-10	78234	160	172.4	.93	20.5	20.1	1.8	.9	5		
SHED-11	79842	176	174.3	1.01	22.0	21.8	1.6	.0	9		
SHED-12	158835	268	321.9	.83	16.9	18.2	1.2	9.0	3		
SHED-13	14613	29	30.7	.94	19.8	20.4	3.8	.1	7		
DIAGNOSIS OF MALIGNANT NEOPLASM OF BREAST											
TOTAL...	574260	443	443.0	1.00	7.7	7.7	.4	.0	0		
SHED-1	17070	13	14.2	.91	7.6	6.9	1.8	.1	5		
SHED-2	29958	26	25.9	1.00	8.7	7.7	1.4	.0	9		
SHED-3	11646	15	10.0	1.51	12.9	11.6	2.4	2.6	13		
SHED-4	25545	19	22.2	.85	7.4	6.5	1.5	.5	4		
SHED-5	36834	46	32.2	1.43	12.5	10.9	1.3	5.9	12		
SHED-6	49263	38	37.3	1.02	7.7	7.8	1.2	.0	10		
SHED-7	16425	6	12.0	.50	3.7	3.9	1.7	3.0	1		
SHED-8	30921	25	25.1	1.00	8.1	7.6	1.4	.0	8		
SHED-9	25074	17	22.0	.77	6.8	6.1	1.4	1.1	3		
SHED-10	78234	60	65.8	.91	7.7	7.1	.9	.5	6		
SHED-11	79842	59	64.4	.92	7.4	7.1	1.0	.4	7		
SHED-12	158835	112	101.1	1.11	7.1	8.4	.8	1.2	11		
SHED-13	14613	7	10.8	.65	4.8	5.1	1.4	1.3	2		
CHRONIC CYSTIC DISEASE AND OTHER DISEASES OF BREAST											
TOTAL...	574260	544	544.0	1.00	9.5	9.5	.4	.0	0		
SHED-1	17070	21	16.1	1.31	12.3	12.0	2.3	1.5	11		
SHED-2	29958	22	28.6	.77	7.3	7.2	1.7	1.5	4		
SHED-3	11646	3	11.1	.27	2.6	2.8	1.7	5.9	1		
SHED-4	25545	22	24.1	.91	8.6	8.7	1.8	.2	7		
SHED-5	36834	31	35.1	.88	8.4	8.1	1.5	.5	6		
SHED-6	49263	94	45.2	2.08	19.1	19.8	1.4	52.5	13		
SHED-7	16425	9	15.4	.59	5.5	5.5	2.1	2.6	2		
SHED-8	30921	40	28.7	1.39	12.9	13.2	1.7	4.5	12		
SHED-9	25074	30	25.5	1.17	12.0	11.0	1.9	.8	10		
SHED-10	78234	71	73.5	.97	9.1	9.3	1.1	.1	8		
SHED-11	79842	78	75.5	1.03	9.8	9.8	1.1	.1	9		
SHED-12	158835	112	151.4	.74	7.1	7.0	.8	10.3	3		
SHED-13	14613	11	13.8	.80	7.5	7.5	2.3	.6	5		

TABLE J3

## MASTECTOMIES

By Hospital, Number of Cases, Total Hospital Days,  
Mean Length of Hospital Stay and Mean Adjusted by Age  
Vermont, 1969-1971

Hospital	Number of Cases	Total Days	Mean Length of Hospital Stay (Days)				Mastectomy	
			Crude Mean	S.D.	Total	Simple (391)	Radical (394)	
0.	1562	10774	6.90	7.48	6.90	3.21	13.70	
1.	324	2033	6.27	6.25	6.35	2.84	11.33	
2.	65	342	5.26	5.24	5.03	2.43	10.69	
3.	60	338	5.63	4.63	5.93	3.48	11.60	
4.	93	480	5.16	7.65	6.03	2.82	13.87	
5.	78	342	4.38	3.85	4.52	2.49	10.51	
6.	49	352	7.18	5.07	6.26	3.11	12.53	
7.	4	43	10.75	5.36	8.54	3.17	11.41	
8.	29	184	6.34	5.69	5.52	3.26	12.41	
9.	154	934	6.06	6.02	6.88	3.52	23.55	
10.	53	390	7.36	8.22	8.38	15.25	14.75	
11.	4	48	12.00	5.24	12.53	2.79	14.35	
12.	59	379	6.42	6.42	5.99	2.68	17.99	
13.	37	345	9.32	8.36	6.74	2.31	15.31	
14.	65	502	7.72	15.57	8.52	2.00	13.18	
15.	1	2	2.00	.00	2.00	4.10	14.85	
16.	115	1007	8.76	9.53	7.88	3.41	14.88	
17.	184	1357	7.37	6.14	7.26	3.09	19.00	
18.	24	86	3.58	4.45	4.37			
19.	162	1582	9.77	8.19	8.73			
20.	2	28	14.00	5.00	12.11			
21.								



TABLE J4

## MASTECTOMIES

By Hospital and Diagnosis  
Number of Cases by Year  
Vermont, 1969-1971

Hospital	Total			Malignant Neoplasm of Breast (174)			Chronic Cystic Disease and Other Diseases of Breast (610-611)		
	1969	1970	1971	Total	1969	1970	Total	1969	1970
0.	1557	521	582	591	175	224	669	191	200
1.	322	115	106	135	40	47	124	43	41
2.	65	21	34	24	5	9	35	2	9
3.	59	10	28	17	2	8	35	7	10
4.	92	31	26	17	8	7	55	16	17
5.	78	23	25	25	7	10	40	20	10
6.	50	19	17	24	5	11	23	7	8
7.	4	4	0	3	0	3	1	0	1
8.	29	9	13	6	0	1	11	0	4
9.	153	59	52	54	16	26	63	19	22
10.	52	12	26	12	4	3	25	5	6
11.	4	2	2	1	0	1	33	3	17
12.	59	22	32	16	0	3	8	1	1
13.	37	8	18	20	9	6	24	5	7
14.	65	19	26	26	10	9	44	18	13
15.	1	1	0	48	15	17	85	20	21
16.	114	36	36	69	19	28	8	3	2
17.	185	61	76	5	2	3	54	18	10
18.	24	6	8	88	33	31	1	0	1
19.	162	49	57	1	0	1			
20.	2	2	0						
21.									

TABLE J5

MASTECTOMIES  
By Hospital and Type of Surgery  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

Hospital	Total	Number of Cases				Total	Mean Age of Patient			
		391	392	393	394		391	392	393	394
0.	1564	959	154	63	388	48,31	40.77	64.21	67.16	57.58
1.	324	183	27	17	97	47.65	40.99	53.89	63.47	55.70
2.	65	40	13	7	5	49.86	41.72	65.77	65.71	51.40
3.	60	45	1	1	13	45.85	40.58	80.00	73.00	59.38
4.	93	76	2	4	11	43.83	39.63	57.00	74.50	59.27
5.	73	55	7	5	11	46.46	38.16	81.43	61.40	58.91
6.	50	27	2	9	12	53.66	40.96	83.00	73.67	62.33
7.	4	1	0	0	3	60.75	20.00	.00	.00	74.33
8.	29	21	3	1	4	48.41	41.52	73.67	60.00	62.75
10.	154	108	16	2	28	45.00	39.55	64.69	67.50	53.18
11.	53	40	3	3	7	47.64	42.63	64.33	71.00	59.14
12.	4	2	2	0	0	72.00	65.50	78.50	.00	.00
13.	59	43	9	2	5	48.76	43.70	68.67	53.50	54.60
14.	37	18	5	2	12	53.38	41.89	74.40	74.00	58.42
15.	65	39	11	2	13	49.14	40.28	70.27	71.50	54.38
16.	1	1	0	0	0	83.00	83.00	.00	.00	.00
17.	115	70	2	2	41	50.34	42.04	80.50	81.50	61.51
18.	185	100	30	4	51	48.03	39.31	56.67	61.00	59.02
19.	24	19	2	0	3	43.62	39.26	61.00	.00	59.67
20.	162	71	18	2	71	51.90	41.92	70.72	69.00	56.62
21.	2	0	1	0	1	47.50	.00	23.00	.00	72.00

## H-ICDA Code Numbers:

- 39.1 - Partial mastectomy
- 39.2 - Complete mastectomy
- 39.3 - Extended simple mastectomy
- 39.4 - Radical mastectomy

TABLE J6

MASTECTOMIES

Total Number of Cases by Type of Surgery and Major Diagnosis Explaining Admission

Vermont, 1969-1971

(H-ICDA Code #)		Number of Cases				(H-ICDA Code #)	
Major Diagnosis	Total	391	392	393	394	Major Diagnosis	Total
0.	1560	958	151	63	388	623.	1
146.	1	0	0	1	0	625.	2
162.	1	0	0	0	1	626.	4
171.	1	1	0	0	0	627.	1
174.	580	44	104	56	376	629.	1
182.	1	1	0	0	0	658.	1
198.	3	1	1	1	0	696.	1
200.	1	1	0	0	0	704.	1
202.	2	1	0	0	1	706.	5
210.	2	2	0	0	0	709.	2
214.	28	28	0	0	0	723.	1
217.	211	206	4	0	1	731.	2
219.	1	1	0	0	0	733.	1
226.	1	1	0	0	0	757.	5
227.	1	1	0	0	0	784.	1
233.	5	2	2	1	0	785.	2
250.	1	1	0	0	0	786.	1
277.	1	1	0	0	0		
279.	1	1	0	0	0		
310.	2	1	0	0	0		
320.	1	1	0	0	0		
342.	1	1	0	0	0		
381.	2	0	0	0	1		
402.	2	2	0	0	0		
412.	2	2	0	0	0		
427.	2	1	1	0	0		
433.	1	0	1	0	0		
436.	1	0	0	1	0		
440.	2	1	1	0	0		
451.	1	0	1	0	0		
485.	1	0	1	0	0		
500.	1	1	0	0	0		
521.	1	1	0	0	0		
530.	1	1	0	0	0		
531.	1	1	0	0	0		
535.	1	1	0	0	0		
551.	2	0	0	2	0		
562.	2	0	0	0	0		
592.	1	0	0	0	1		
595.	3	2	0	0	1		
610.	590	560	27	0	3		
611.	64	56	8	0	0		
620.	1	1	0	0	0		

(H-ICDA Code #)

Major  
Diagnosis

391

392

393

394

Total

Number of Cases

(H-ICDA Code #)

Major  
Diagnosis

391

392

393

394

Total

Number of Cases

H-ICDA Code Numbers:

Procedure

39.1 - Partial mastectomy

39.2 - Complete mastectomy

39.3 - Extended simple mastectomy

39.4 - Radical mastectomy

Diagnosis

610 - Chronic cystis disease

174 - Malignant neoplasm of breast

217 - Benign neoplasm of breast

H-ICDA Code Numbers:

### Procedure

### 39.1 - Partial mastectomy

### 39.2 - Complete mastectomy

### 39.3 - Extended simple mastectomy

### 39.4 - Radical mastectomy

## Diagnosis

610 - Chronic cystitis disease

174 - Malignant neoplasm of breast

217 - Benign neoplasm of breast.

**Western Hemisphere**

## APPENDIX K:

## TONSILLECTOMIES

1969-1971

The H-ICDA Codes for Tonsillectomy are defined as follows:

- 23.1 - Tonsillectomy without adenoidectomy
- 23.2 - Tonsillectomy with adenoidectomy
- 23.3 - Adenoidectomy without tonsillectomy

- TABLE K1: By Hospital Service Area of Residence, Number of Cases by Patient Age at Admission and Age Specific Discharge Rate Per 10,000 Person Years
- TABLE K2: By Hospital Service Area of Residence, Number of Cases, Patient Days of Hospitalization and Estimated Cost of T&A's, Observed and Expected Number and Rate Per 10,000 Person Years
- TABLE K3: By Hospital Service Area of Residence, Probability of Having T&A by Given Age
- TABLE K4: Number of Cases, Percent and Cumulative Percent by Years of Patient Age and Sex
- TABLE K5: Number of Cases Per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons
- TABLE K6: By Hospital and Type of Surgery, Number of Cases and Mean Patient Age



TABLE K1

## TONSILLECTOMIES

By Hospital Service Area of Residence  
Number of Cases by Patient Age at Admission and Age Specific  
Discharge Rates Per 10,000 Person Years  
Vermont, 1969-1971

AREA	TOTAL	< 2	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25
TOTAL...	5315	72	548	1215	1200	685	396	267	231	274	190	121	66	50
AREA #01	218	0	19	40	53	31	22	13	7	15	5	5	6	2
AREA #02	130	1	3	16	27	17	12	12	11	15	8	7	0	1
AREA #03	141	1	5	35	35	26	12	16	5	3	7	2	1	1
AREA #04	262	5	17	48	60	43	15	16	13	19	13	8	3	2
AREA #05	351	6	64	89	57	37	18	19	13	17	10	12	5	4
AREA #06	429	1	38	117	106	48	31	18	13	24	16	16	4	3
AREA #07	446	2	83	116	77	57	30	19	16	13	13	11	3	6
AREA #08	253	0	12	39	58	42	23	15	20	30	9	2	2	1
AREA #09	306	0	24	85	59	33	32	18	14	17	15	4	2	3
AREA #10	692	14	59	151	170	101	54	23	23	33	26	14	12	12
AREA #11	888	1	91	194	223	126	66	45	36	37	30	20	12	7
AREA #12	1146	39	132	273	262	116	71	63	54	48	35	30	15	8
AREA #13	53	2	1	12	13	8	6	2	2	3	3	0	1	0

DISCHARGE RATE PER 10,000 PER YEAR														
TOTAL...	99.3	17.2	135.0	279.3	272.4	161.8	97.8	68.7	61.9	77.9	73.4	52.6	25.2	21.6
AREA #01	137.9	.0	171.2	350.2	408.5	284.2	197.2	121.2	64.4	165.8	66.4	80.9	81.9	30.2
AREA #02	49.7	5.7	16.9	79.0	121.7	73.2	55.1	51.2	48.1	67.1	48.7	50.7	24.9	9.0
AREA #03	136.9	13.3	67.1	414.5	407.6	303.6	195.1	57.7	70.2	49.9	140.4	65.8	23.4	26.3
AREA #04	119.2	28.0	103.2	291.2	346.0	268.7	105.7	116.6	95.3	143.4	122.9	76.4	36.8	19.4
AREA #05	110.0	25.2	244.8	327.5	229.0	149.9	78.1	85.4	61.1	80.3	63.7	89.0	36.8	30.0
AREA #06	90.2	2.6	101.9	294.1	269.3	129.8	86.0	48.7	49.5	74.3	69.7	30.2	17.1	15.4
AREA #07	280.9	16.5	695.7	942.8	764.2	609.8	387.1	266.1	263.7	229.6	343.7	312.6	72.9	169.0
AREA #08	88.1	.0	56.9	174.4	237.7	180.3	96.7	63.6	85.9	124.0	61.6	17.4	16.7	9.8
AREA #09	143.8	.0	159.7	504.4	358.8	213.6	209.2	122.1	98.4	118.2	166.9	61.2	22.3	36.4
AREA #10	101.4	28.0	120.7	27.1	303.8	184.6	101.0	45.7	48.4	73.3	78.8	46.6	34.6	44.0
AREA #11	124.9	1.8	166.2	323.4	360.5	225.3	123.7	91.1	75.3	83.7	101.4	73.9	39.4	27.3
AREA #12	70.6	29.2	103.9	206.5	194.4	88.1	56.4	52.8	47.5	46.2	41.7	38.6	16.6	9.3
AREA #13	37.5	17.9	9.2	106.4	107.5	61.2	51.0	18.5	17.5	27.4	37.6	.0	13.3	.0

TABLE K2

## TONSILLECTOMIES

By Hospital Service Area of Residence  
Number of Cases, Patient Days of Hospitalization and Estimated Cost of T & A's  
Observed and Expected Number and Rate Per 10,000 Person Years  
Vermont, 1969-1971

		Number of Cases			Cases Per 10,000 Per Year		
					Crude	Age-	
Area	Person Years	Obs #	Exp #	Ratio	Rate	Adjusted	
-----							
TOTAL...	0.	5315	5315.0	1.00	99.3	110.9	
AREA #01	1.	218	152.0	1.43	137.9	167.8	
AREA #02	2.	130	255.8	.51	49.7	51.3	
AREA #03	3.	141	104.2	1.35	136.9	153.0	
AREA #04	4.	262	208.6	1.26	119.2	143.9	
AREA #05	5.	351	322.6	1.09	110.0	121.4	
AREA #06	6.	429	474.5	.90	90.2	98.8	
AREA #07	7.	446	159.3	2.80	280.9	409.2	
AREA #09	8.	253	284.2	.89	88.1	94.8	
AREA #09	9.	306	209.3	1.46	143.8	170.7	
AREA #10	10.	692	680.2	1.02	101.4	113.1	
AREA #11	11.	888	725.0	1.22	124.9	139.5	
AREA #12	12.	1146	1599.7	.72	70.6	76.8	
AREA #13	13.	53	139.6	.38	37.5	39.3	
-----							
PATIENT DAYS							
-----							
TOTAL...	0.	10172	10172.0	1.00	190.0	190.0	
AREA #01	1.	499	292.1	1.71	315.7	325.1	
AREA #02	2.	268	491.8	.54	102.5	100.1	
AREA #03	3.	320	199.2	1.61	310.8	300.6	
AREA #04	4.	562	400.6	1.40	255.7	267.0	
AREA #05	5.	580	616.6	.94	181.8	178.2	
AREA #06	6.	853	907.1	.94	179.3	178.7	
AREA #07	7.	931	304.3	3.06	586.3	581.1	
AREA #09	8.	536	545.3	.98	186.7	183.0	
AREA #09	9.	688	401.7	1.71	323.2	324.0	
AREA #10	10.	1372	1302.0	1.05	201.0	200.5	
AREA #11	11.	1829	1383.9	1.32	257.2	251.4	
AREA #12	12.	1670	3059.8	.55	102.9	103.6	
AREA #13	13.	64	267.5	.24	45.3	45.6	
-----							
ESTIMATED COST OF T&A's (\$)							
-----							
TOTAL...	0.	1038410	1038410.0	1.00	19395.1	19395.1	
AREA #01	1.	46161	29748.7	1.55	29202.9	30111.7	
AREA #02	2.	25713	50071.1	.51	9831.4	9626.0	
AREA #03	3.	31075	20347.5	1.53	30181.6	29186.3	
AREA #04	4.	55075	48006.4	1.35	25055.7	26197.0	
AREA #05	5.	72728	63006.8	1.15	22795.2	22244.7	
AREA #06	6.	78442	92655.2	.85	16491.5	16415.6	
AREA #07	7.	90340	31102.9	2.90	56892.7	56253.0	
AREA #09	8.	49372	55575.6	.89	17195.0	16855.3	
AREA #09	9.	66873	40941.0	1.63	31417.9	31556.7	
AREA #10	10.	143943	132917.8	1.08	21088.7	21021.2	
AREA #11	11.	181102	141495.9	1.28	25469.3	24828.1	
AREA #12	12.	188734	312449.6	.60	11627.4	11701.5	
AREA #13	13.	8852	27289.4	.32	6263.4	6320.1	

TABLE K3

TONSILLECTOMIES  
By Hospital Service Area of Residence  
Probability of Having T & A by Given Age  
Vermont, 1969-1971

AREA	TOTAL	0	2	4	6	8	10	12	14	16	18	20	22	24
AREA #01	.0000	.0000	.0034	.0300	.0827	.1314	.1590	.1753	.1866	.1966	.2090	.2205	.2287	.2326
AREA #02	.0000	.0000	.0000	.0337	.0990	.1698	.2157	.2460	.2641	.2735	.2972	.3065	.3176	.3287
AREA #03	.0000	.0000	.0011	.0045	.0201	.0437	.0576	.0679	.0774	.0862	.0984	.1071	.1162	.1162
AREA #04	.0000	.0000	.0027	.0160	.0943	.1652	.2144	.2445	.2532	.2636	.2709	.2911	.3003	.3038
AREA #05	.0000	.0000	.0056	.0259	.0810	.1425	.1874	.2044	.2227	.2374	.2590	.2770	.2879	.2912
AREA #06	.0000	.0000	.0050	.0526	.1127	.1524	.1774	.1902	.2039	.2135	.2261	.2359	.2494	.2549
AREA #07	.0000	.0000	.0005	.0207	.0766	.1251	.1475	.1620	.1702	.1783	.1905	.2017	.2065	.2092
AREA #08	.0000	.0000	.0033	.1330	.2824	.3843	.4550	.4957	.5218	.5464	.5667	.5955	.6201	.6256
AREA #09	.0000	.0000	.0000	.0113	.0452	.0895	.1218	.1386	.1495	.1640	.1844	.1944	.1972	.1999
AREA #10	.0000	.0000	.0000	.0314	.1244	.1851	.2192	.2512	.2693	.2835	.3002	.3232	.3315	.3344
AREA #11	.0000	.0000	.0056	.0293	.0798	.1341	.1655	.1822	.1896	.1974	.2091	.2215	.2287	.2340
AREA #12	.0000	.0000	.0004	.0330	.0936	.1567	.1938	.2135	.2278	.2393	.2519	.2670	.2777	.2834
AREA #13	.0000	.0000	.0058	.0263	.0657	.1013	.1170	.1269	.1361	.1442	.1521	.1592	.1656	.1684
AREA #13	.0000	.0000	.0036	.0054	.0263	.0471	.0587	.0682	.0716	.0749	.0799	.0868	.0868	.0893



TABLE K4

## TONSILLECTOMIES

Number of Cases, Percent and Cumulative Percent  
By Years of Patient Age and Sex  
Vermont, 1969-1971

Year of Age	Number of Cases			Percent			Cumulative Percent		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
0.	6357	3177	3180	100.00	49.98	50.02	.00	.00	.00
1.	56	39	17	100.00	69.64	30.36	.88	1.23	.53
2.	209	128	81	100.00	61.24	38.76	4.17	5.26	3.08
3.	446	266	180	100.00	59.64	40.36	11.18	13.63	8.74
4.	600	351	249	100.00	58.50	41.50	20.62	24.68	16.57
5.	872	470	402	100.00	53.90	46.10	34.34	39.47	29.21
6.	850	457	393	100.00	53.76	46.24	47.71	53.86	41.57
7.	611	346	265	100.00	56.63	43.37	57.32	64.75	49.91
8.	474	246	228	100.00	51.90	48.10	64.78	72.49	57.08
9.	346	182	164	100.00	52.60	47.40	70.22	78.22	62.23
10.	254	115	139	100.00	45.28	54.72	74.22	81.84	66.60
11.	203	73	130	100.00	35.96	64.04	77.41	84.14	70.69
12.	162	79	83	100.00	48.77	51.23	79.96	86.62	73.30
13.	158	63	95	100.00	39.87	60.13	82.44	88.61	76.29
14.	129	50	79	100.00	38.76	61.24	84.47	90.18	78.77
15.	149	43	106	100.00	28.86	71.14	86.82	91.53	82.11
16.	161	44	117	100.00	27.33	72.67	89.35	92.92	85.79
17.	152	54	98	100.00	35.53	64.47	91.74	94.62	88.87
18.	128	46	82	100.00	35.94	64.06	93.75	96.07	91.45
19.	106	31	75	100.00	29.25	70.75	95.42	97.04	93.80
20.	92	25	67	100.00	27.17	72.83	96.87	97.83	95.91
21.	59	20	39	100.00	33.90	66.10	97.80	98.46	97.14
22.	46	15	31	100.00	32.61	67.39	98.52	98.93	98.11
23.	37	11	26	100.00	29.73	70.27	99.10	99.28	98.93
24.	33	14	19	100.00	42.42	57.58	99.62	99.72	99.53
25.	24	9	15	100.00	37.50	62.50	100.00	100.00	100.00

TABLE K5  
 TONSILLECTOMIES  
 Number of Cases Per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons  
 Vermont, 1969-1971

Number of Cases	Physicians		T & A's		Cumulative	
	Number	%	Cumulative Number	%	Number	%
1	22	23.91	22	.35	22	.35
2	4	4.35	26	.13	30	.47
3	1	1.09	27	.05	33	.52
4	2	2.17	29	.13	41	.65
5	3	3.26	32	.24	56	.88
8	3	2.17	34	.25	72	1.13
9	2	2.17	36	.28	90	1.42
12	1	1.09	37	.19	102	1.60
13	2	2.17	39	.41	128	2.01
14	2	2.17	41	.44	156	2.45
16	1	1.09	42	.25	172	2.71
18	1	1.09	43	.28	190	2.99
21	1	1.09	44	.33	211	3.32
23	1	1.09	45	.36	234	3.68
24	1	1.09	46	.38	258	4.06
25	2	2.17	48	.79	308	4.85
26	1	1.09	49	.41	334	5.25
27	1	1.09	50	.42	361	5.68
29	2	2.17	52	.91	419	6.59
34	3	3.26	55	1.60	521	8.20
36	1	1.09	56	.57	557	8.76
37	1	1.09	57	.58	594	9.35
40	1	1.09	58	.63	634	9.97
42	1	1.09	59	.66	676	10.64
48	1	1.09	60	.76	724	11.39
55	1	1.09	61	.87	779	12.26
61	1	1.09	62	.96	840	13.22
69	1	1.09	63	1.09	909	14.30
77	1	1.09	64	1.21	986	15.51
81	1	1.09	65	1.27	1067	16.79
83	2	2.17	67	2.61	1233	19.40
85	1	1.09	68	1.34	1318	20.74

TABLE K5 CONTINUED  
 TONSILLECTOMIES  
 Number of Cases Per Surgeon, Total Cases Performed by Vermont Physicians and Surgeons  
 Vermont, 1969-1971

Number of Cases	Physicians			T & A's		
	Number	%	Cumulative Number	Number	%	Cumulative Number
100	1	1.09	69	100	1.57	1418
102	1	1.09	70	102	1.60	1520
105	1	1.09	71	105	1.65	1625
106	1	1.09	72	106	1.67	1731
107	1	1.09	73	107	1.68	1838
112	1	1.09	74	112	1.76	1950
115	2	2.17	76	230	3.62	2180
138	1	1.09	77	138	2.17	2318
143	1	1.09	78	143	2.25	2461
146	1	1.09	79	146	2.30	2607
164	1	1.09	80	164	2.58	2771
171	1	1.09	81	171	2.69	2942
172	1	1.09	82	172	2.71	3114
183	2	2.17	84	366	5.76	3480
229	1	1.09	85	229	3.60	3709
240	1	1.09	86	240	3.78	3949
359	1	1.09	87	359	5.65	4308
373	1	1.09	88	373	5.87	4681
389	1	1.09	89	389	6.12	5070
395	1	1.09	90	395	6.21	5465
429	1	1.09	91	429	6.75	5894
462	1	1.09	92	462	7.27	6356
						22.31
						23.91
						25.57
						27.23
						28.92
						30.68
						34.30
						36.47
						38.72
						41.02
						43.60
						46.29
						48.99
						54.75
						58.35
						62.13
						67.78
						73.65
						79.77
						85.98
						92.73
						100.00

TONSILLECTOMIES

TABLE K6

By Hospital and Type of Surgery  
Number of Cases and Mean Patient Age  
Vermont, 1969-1971

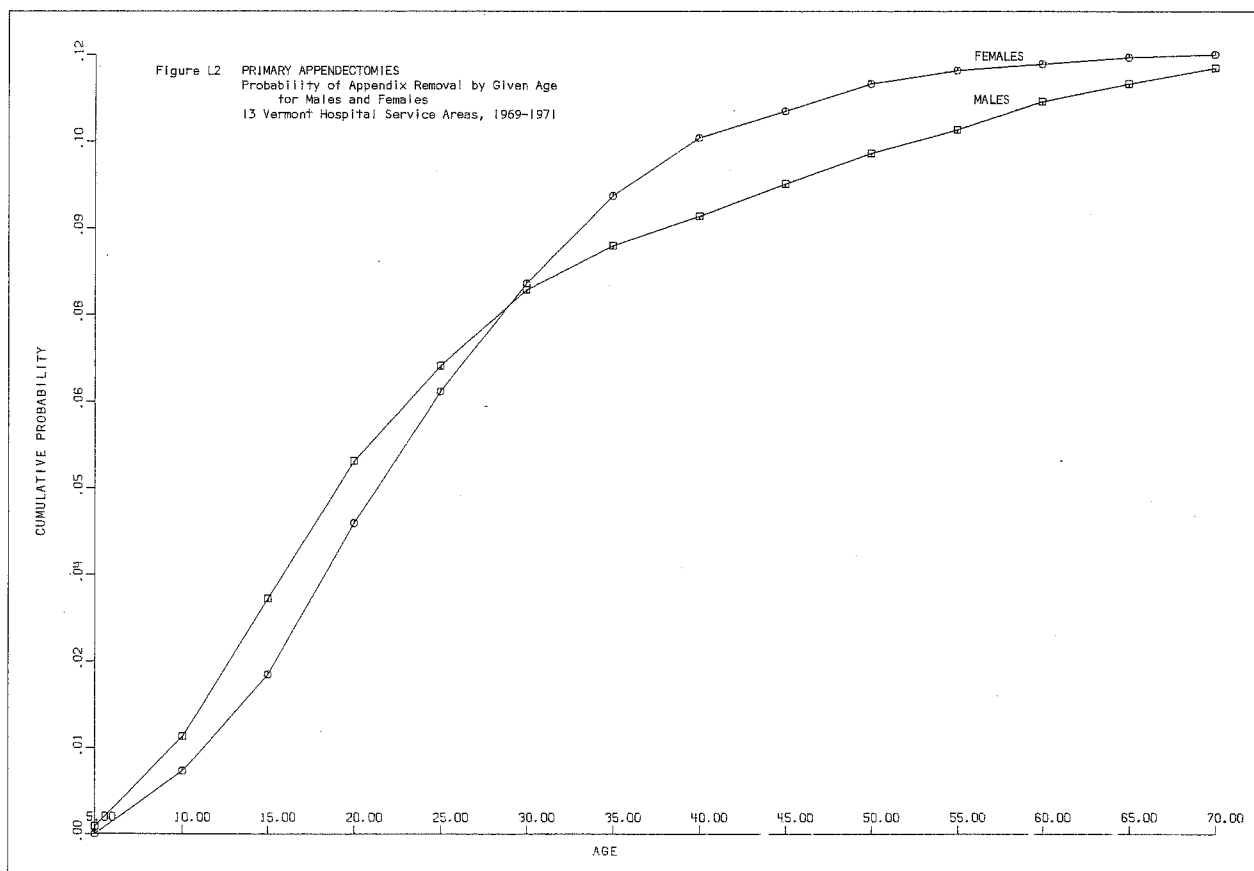
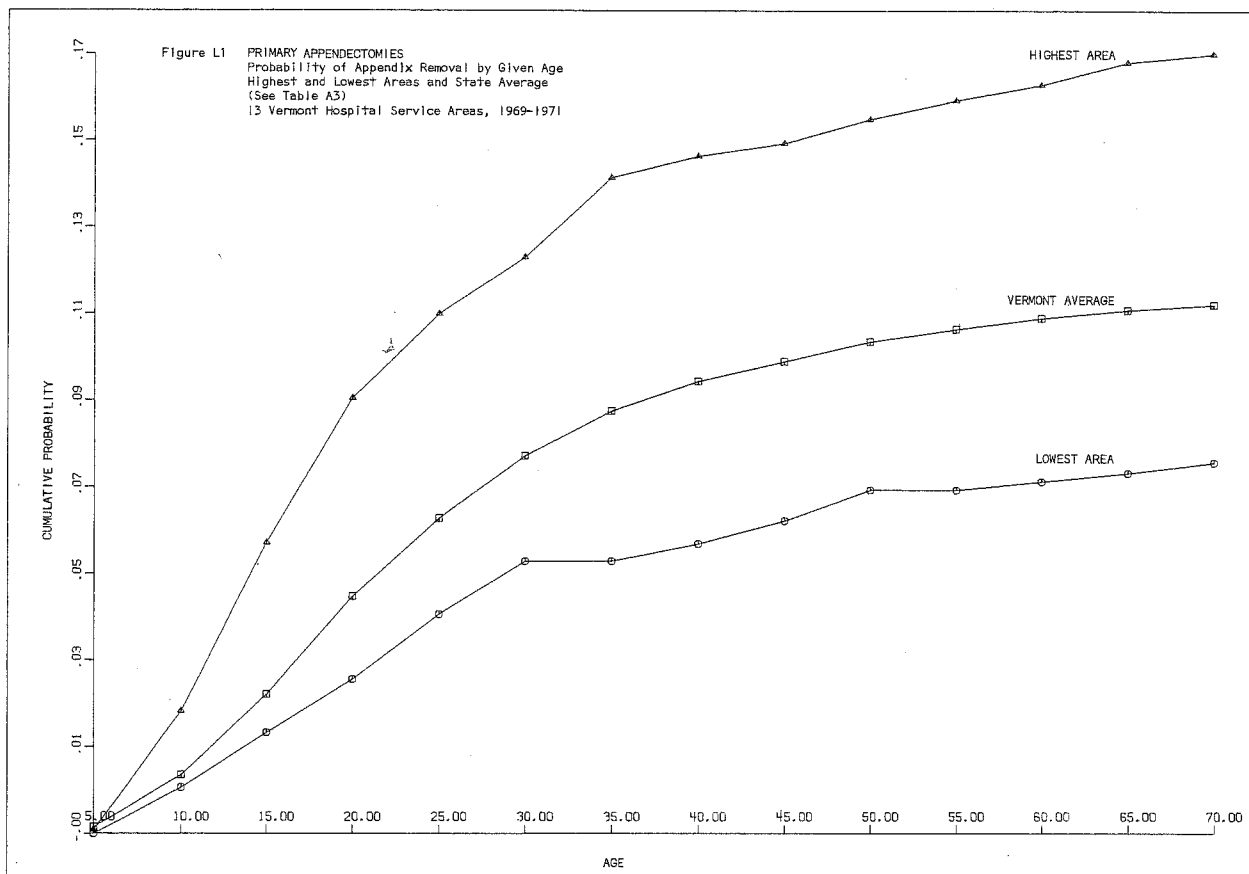
Hospital	Number of Cases			Mean Age of Patient		
	Total	Tonsils	Adenoids	T & A	Total	Tonsils
0.	6360	1168	483	4709	8.41	15.62
1.	1628	182	347	1099	7.72	17.13
2.	89	4	1	84	6.07	11.25
3.	230	13	4	213	8.09	17.08
4.	134	20	1	113	8.81	16.30
5.	223	42	0	181	9.92	16.50
6.	60	22	0	38	12.83	17.45
7.	22	8	0	14	12.05	15.13
8.	542	113	3	426	7.90	14.72
9.	892	174	5	713	8.45	14.46
10.	202	48	5	149	9.25	16.83
11.	10	2	0	8	12.80	17.00
12.	342	65	3	274	8.58	15.34
13.	207	38	3	166	8.67	16.53
14.	344	108	40	196	9.35	14.67
15.	465	132	5	328	7.69	12.88
16.	643	136	21	486	9.09	17.57
17.	100	18	3	79	9.21	17.44
18.	226	43	41	142	8.64	16.30
19.	1	0	1	0	9.00	.00
20.						
21.						



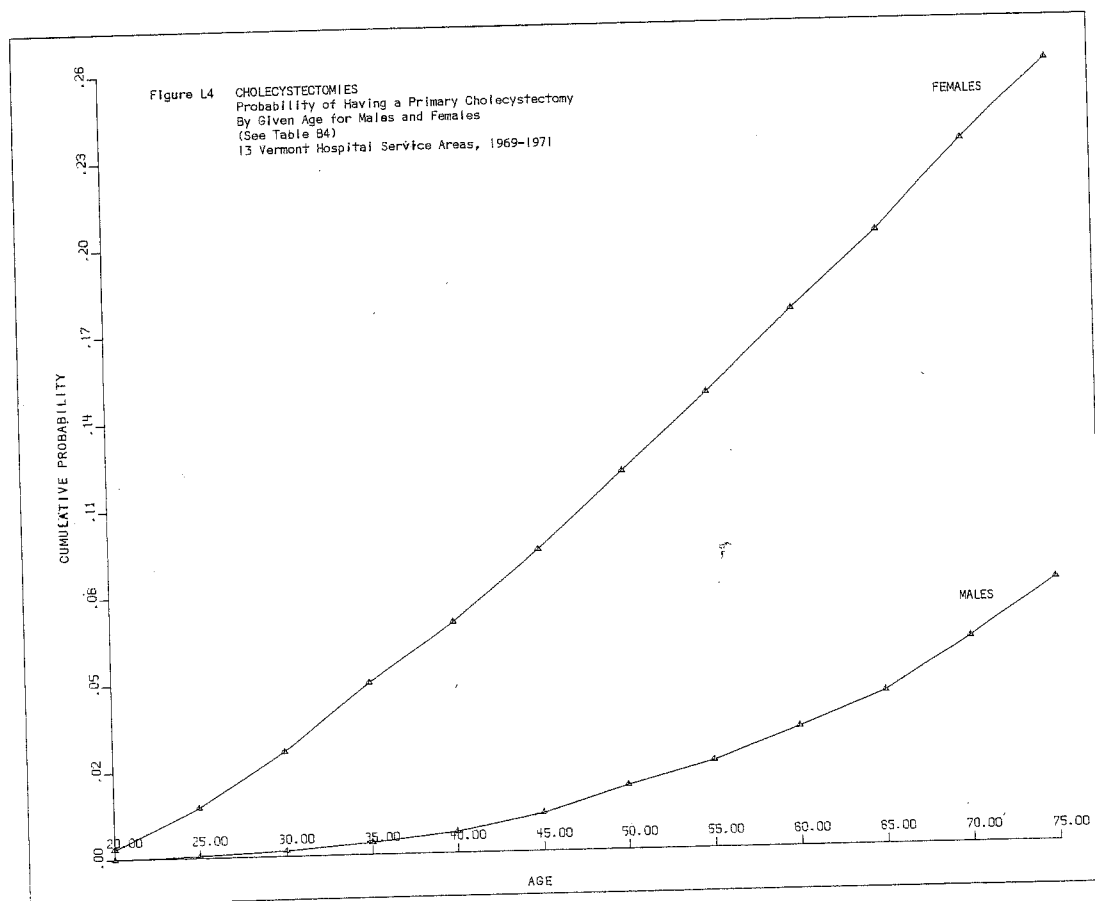
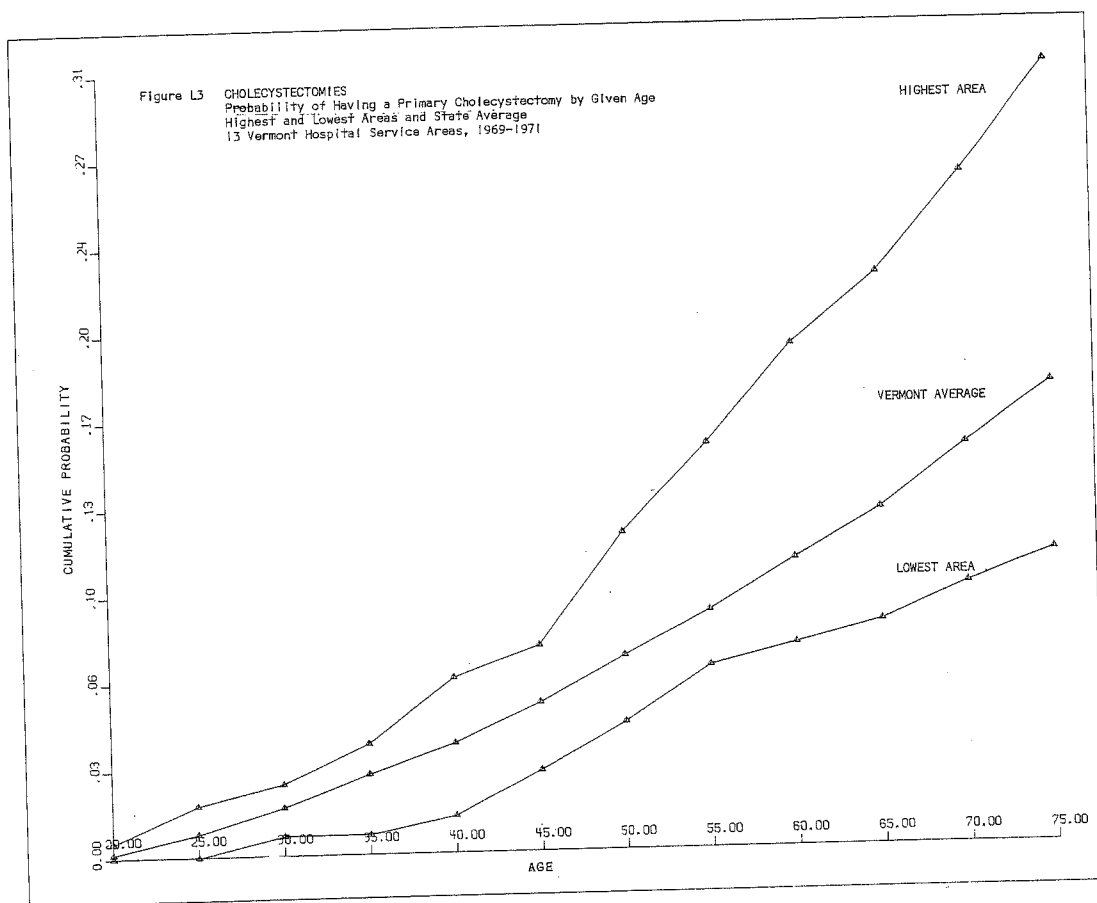
1969-1971

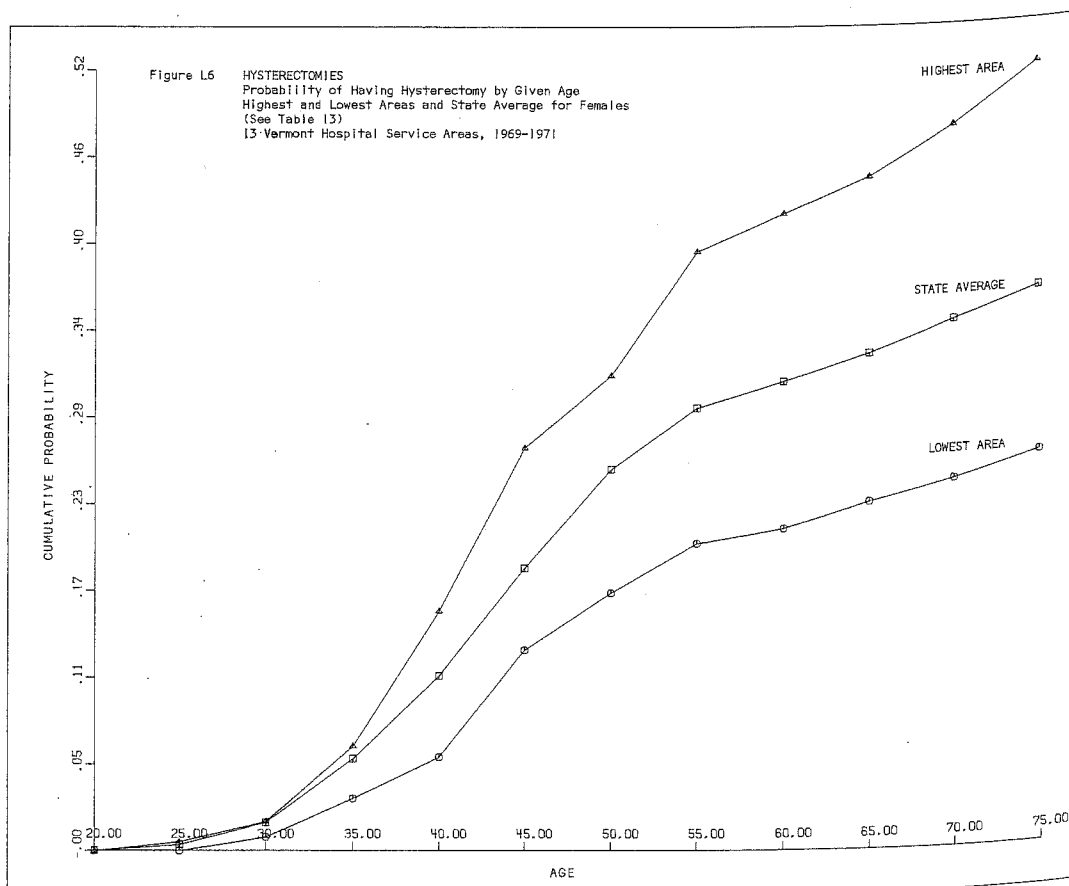
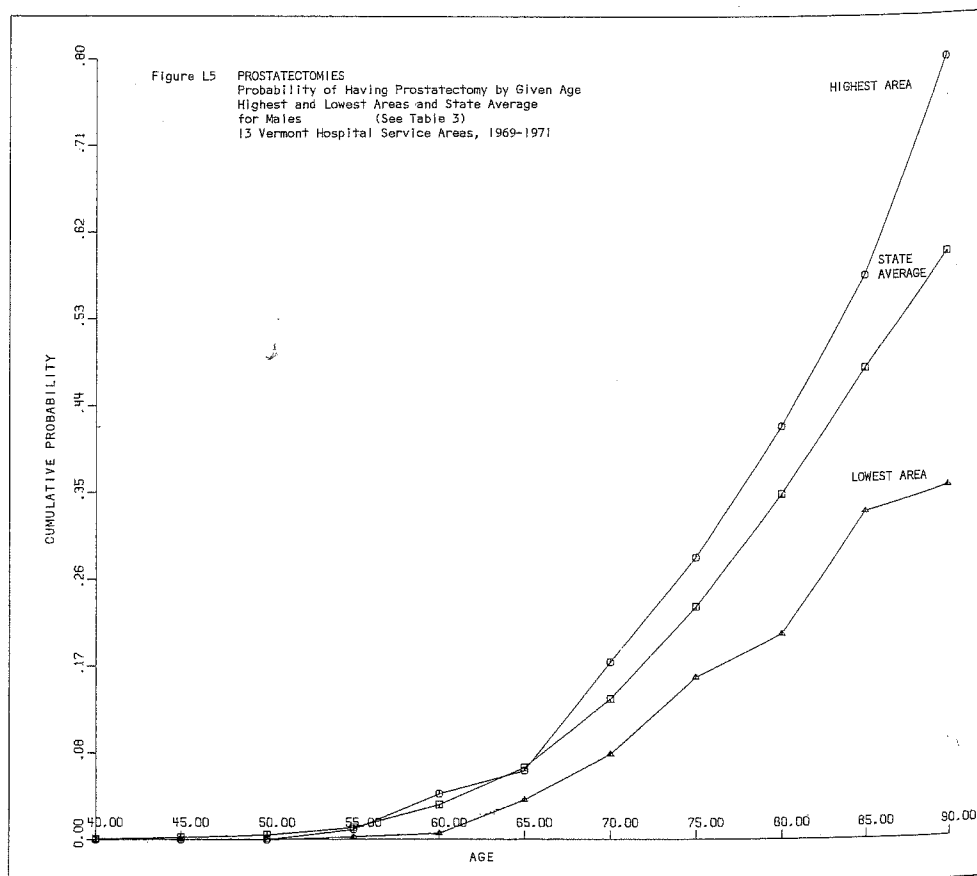
- FIGURE L1: Primary Appendectomies, probability of appendix removal by Given Age, Highest and Lowest Areas and State Average
- FIGURE L2: Primary Appendectomies, probability of appendix removal by Given Age for Males and Females
- FIGURE L3: Cholecystectomies, probability of having a primary cholecystectomy by Given Age, Highest and Lowest Areas and State Average
- FIGURE L4: Cholecystectomies, probability of having a primary cholecystectomy by Given Age for Males and Females
- FIGURE L5: Prostatectomies, probability of having prostatectomy by Given Age, Highest and Lowest Areas and State Average for Males
- FIGURE L6: Hysterectomies, probability of having hysterectomy by Given Age, Highest and Lowest Areas and State Average for Females
- FIGURE L7: Tonsillectomies, probability of having T & A by Given Age, Highest and Lowest Areas and State Average
- FIGURE L8: Tonsillectomies, probability of having T & A by Given Age for Males and Females

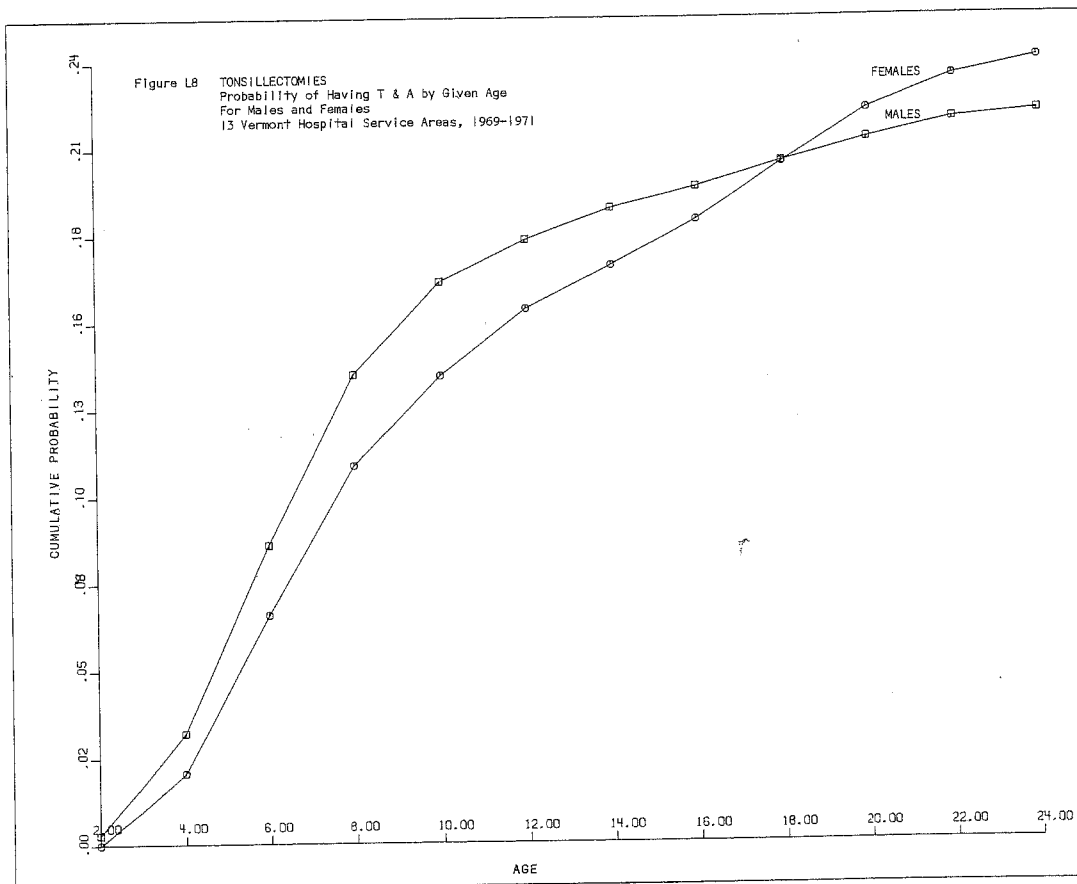
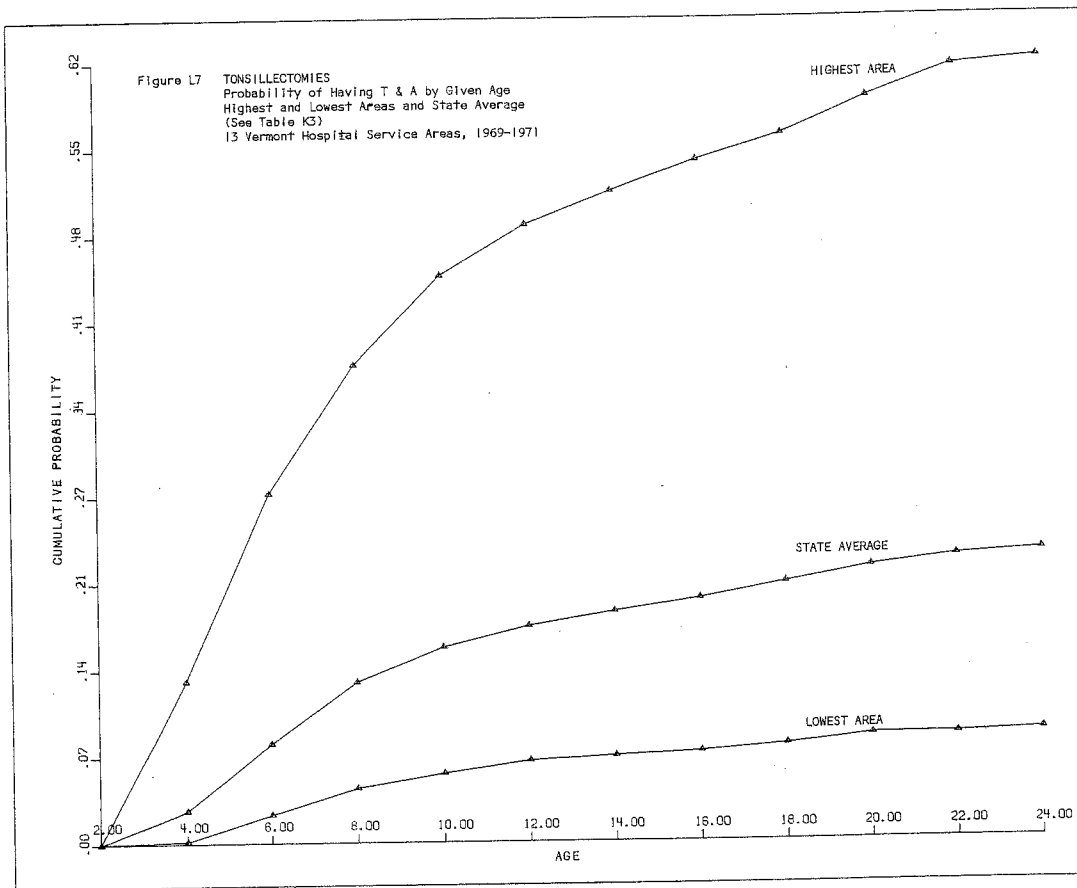












APPENDIX M:

AGE-ADJUSTED RATES PER 10,000 PER YEAR FIGURES

1969-1971

FIGURE M1: Primary Appendectomies, Cases Per 10,000 Per Year Adjusted by Age

FIGURE M2: Primary Cholecystectomies, Cases Per 10,000 Per Year Adjusted by Age for Males only

FIGURE M3: Primary Cholecystectomies, Cases Per 10,000 Per Year Adjusted by Age for Females only

FIGURE M4: Repair of Inguinal Hernia, Cases Per 10,000 Per Year Adjusted by Age for Males only

FIGURE M5: Varicose Veins, Excision and Ligation, Cases Per 10,000 Per Year Adjusted by Age

FIGURE M6: Hemorrhoidectomies, Cases Per 10,000 Per Year Adjusted by Age for Males only

FIGURE M7: Extraction of Lens, Cases Per 10,000 Per Year Adjusted by Age

FIGURE M8: Dilation and Curettage, Cases Per 10,000 Per Year Adjusted by Age for Females

FIGURE M9: Prostatectomies, Cases Per 10,000 Per Year Adjusted By Age for Males

FIGURE M10: Hysterectomies, Cases Per 10,000 Per Year Adjusted By Age for Females

FIGURE M11: Mastectomies, Cases Per 10,000 Per Year Adjusted by Age for Females

FIGURE M12: Tonsillectomies, Cases Per 10,000 Per Year Adjusted By Age



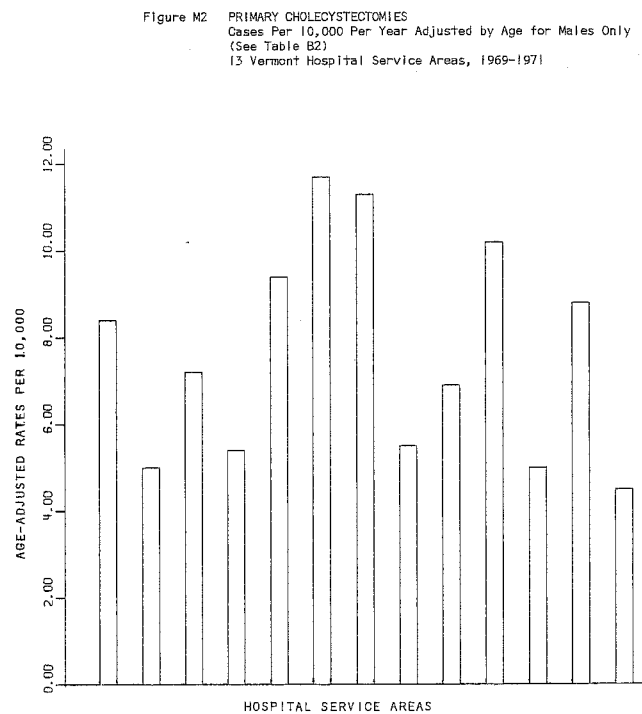
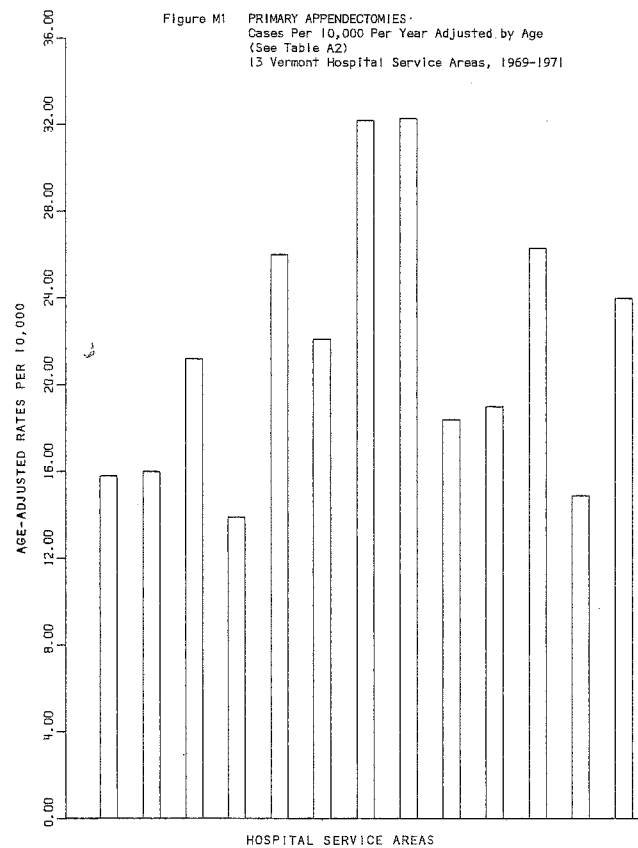


Figure M3 PRIMARY CHOLECYSTECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age for Females Only  
(See Table B2)  
13 Vermont Hospital Service Areas, 1969-1971

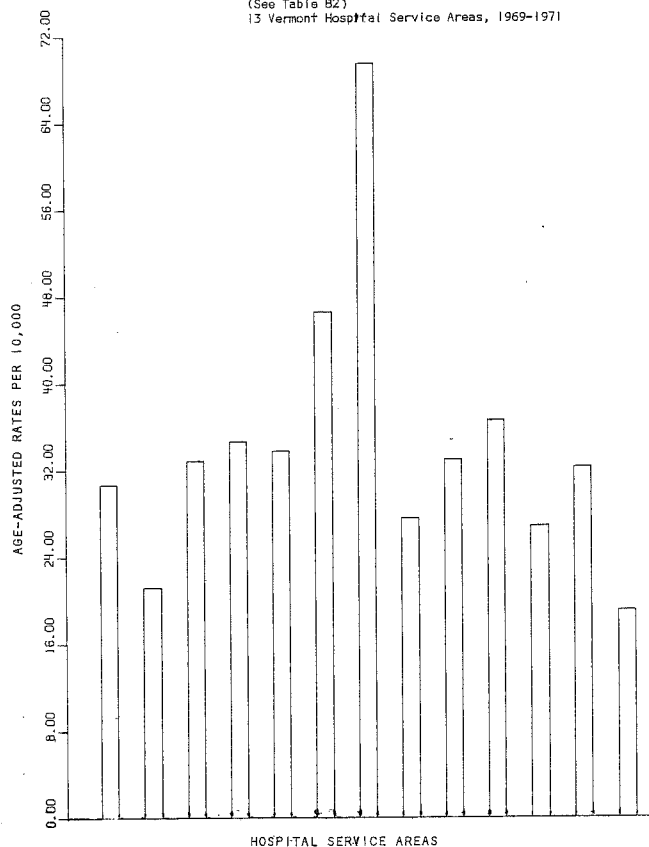


Figure M4 REPAIR OF INGUINAL HERNIA  
Cases Per 10,000 Per Year Adjusted by Age for Males Only  
(See Table C3)  
13 Vermont Hospital Service Areas, 1969-1971

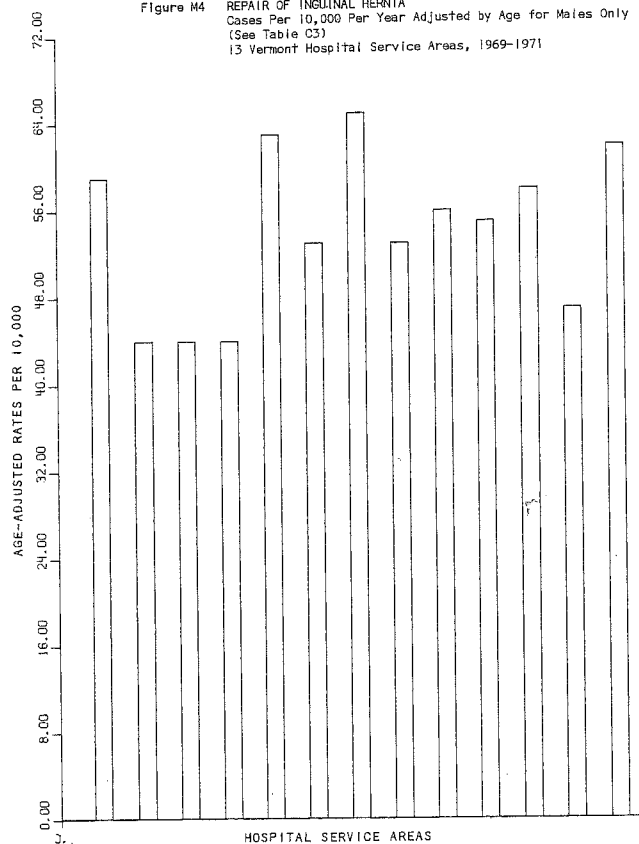


Figure M5 VARICOSE VEINS, EXCISION AND LIGATION  
Cases Per 10,000 Per Year Adjusted by Age  
(See Table D3)  
13 Vermont Hospital Service Areas, 1969-1971

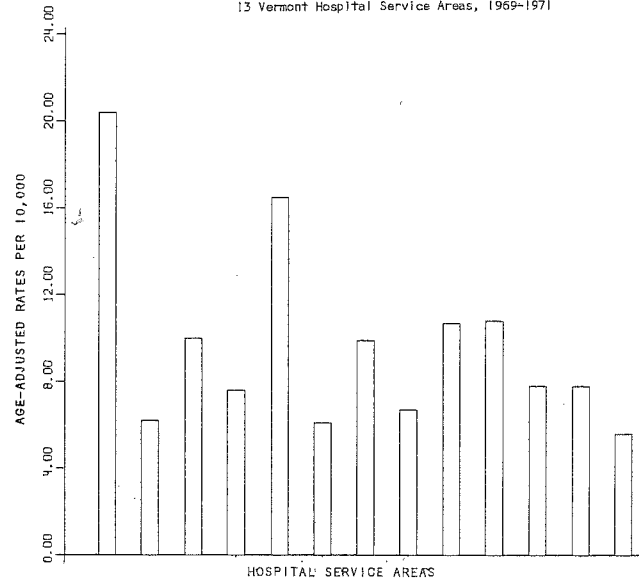


Figure M6: HEMORRHOIDECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age for Males Only  
(See Table E2)  
13 Vermont Hospital Service Areas, 1969-1971

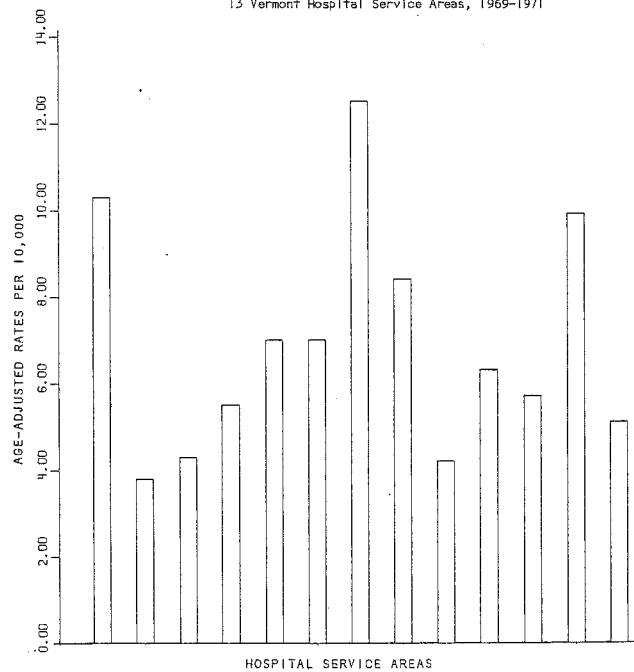




Figure M7 EXTRACTION OF LENS  
Cases Per 10,000 Per Year Adjusted by Age  
(See Table F2)  
13 Vermont Hospital Service Areas, 1969-1971

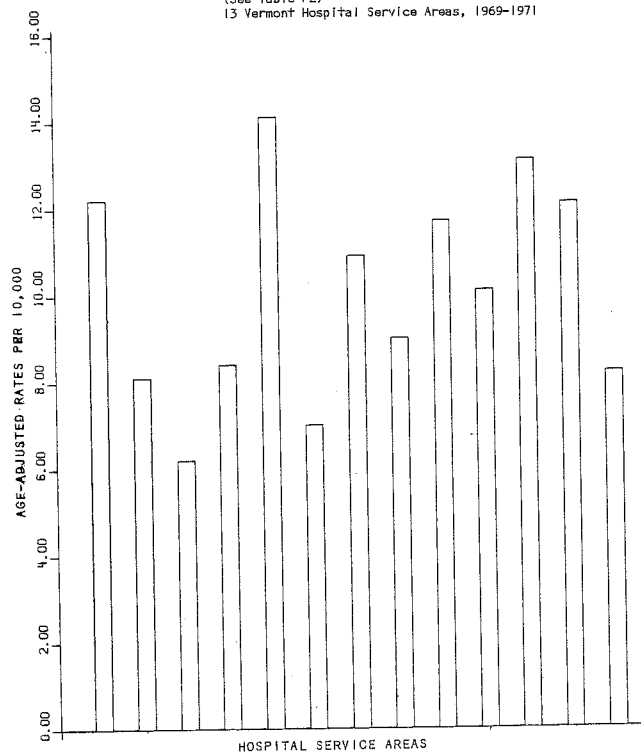


Figure M8 DILATION AND CURETTAGE  
Cases Per 10,000 Per Year Adjusted by Age for Females  
(See Table G2)  
13 Vermont Hospital Service Areas, 1969-1971

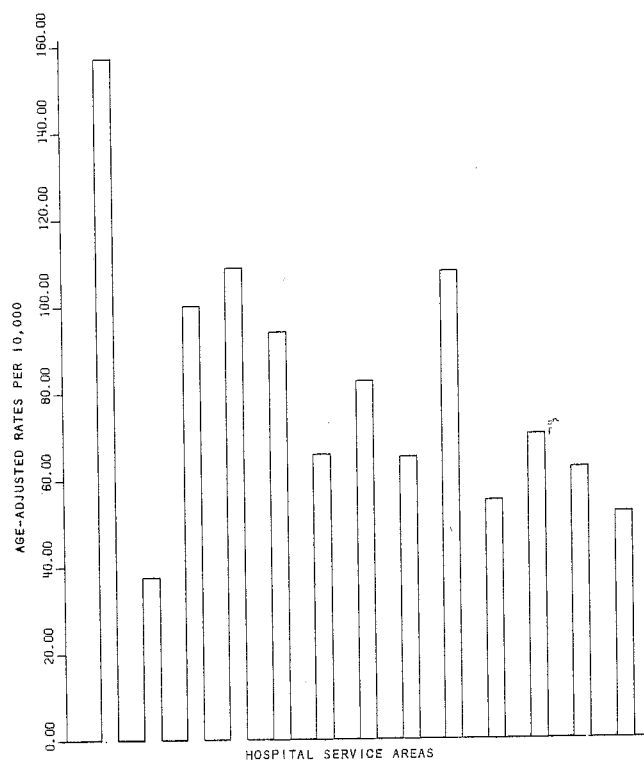


Figure M9 PROSTATECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age for Males  
(See Table H2)  
13 Vermont Hospital Service Areas, 1969-1971

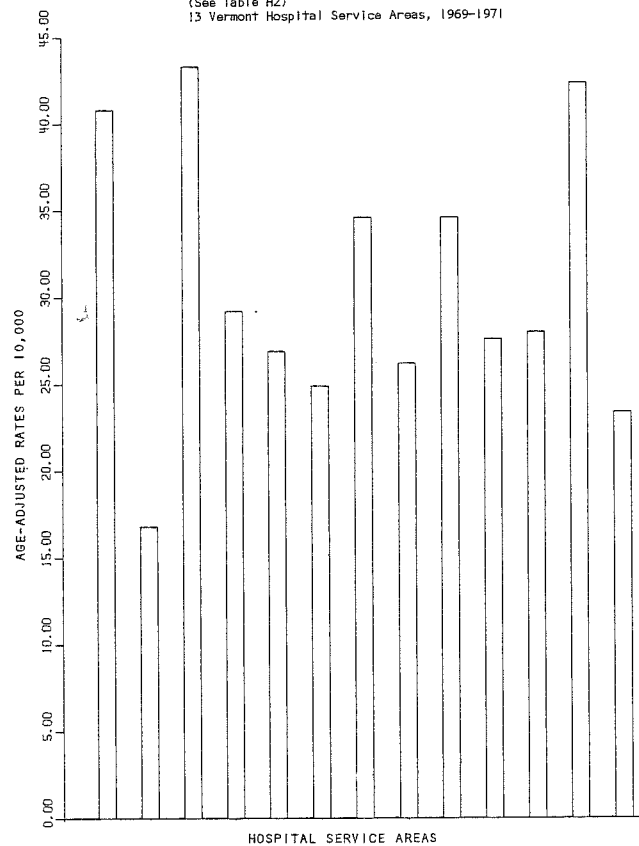


Figure M10 HYSTERECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age for Females  
(See Table I2)  
13 Vermont Hospital Service Areas, 1969-1971

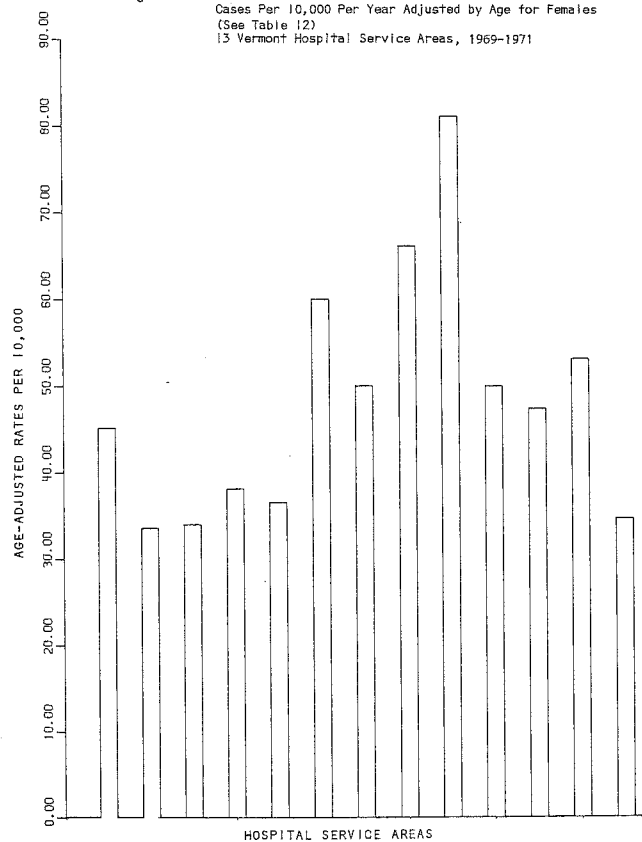


Figure M11 MASTECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age for Females  
(See Table J2)  
13 Vermont Hospital Service Areas, 1969-1971

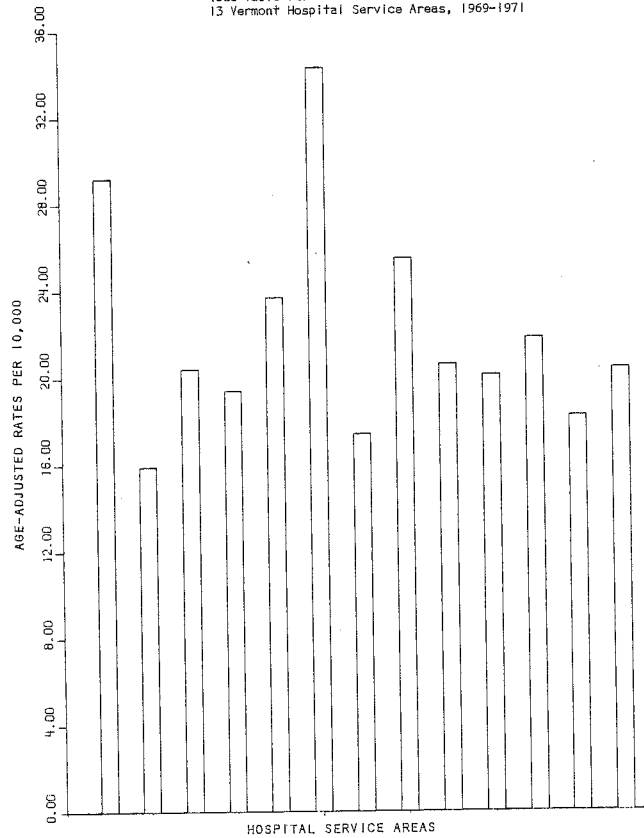
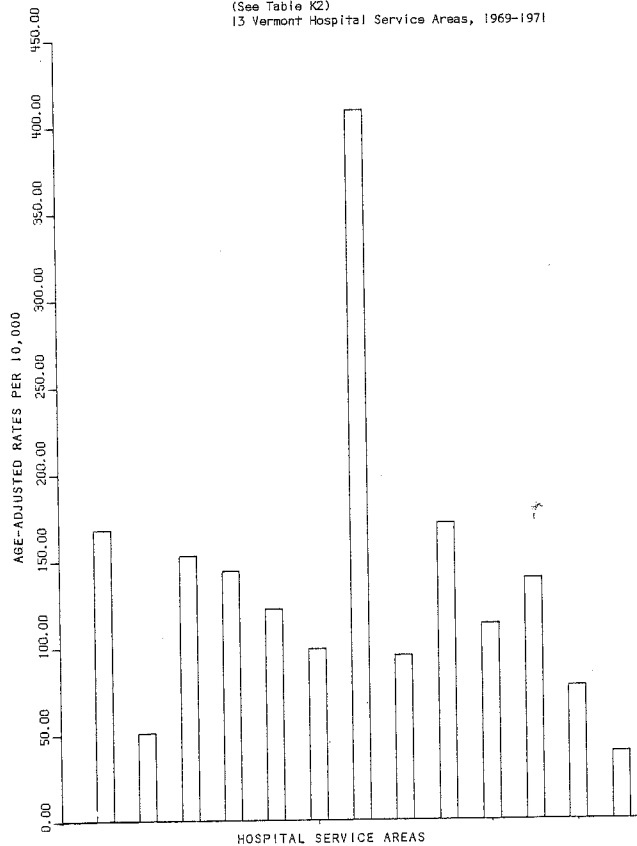


Figure M12 TONSILLECTOMIES  
Cases Per 10,000 Per Year Adjusted by Age  
(See Table K2)  
13 Vermont Hospital Service Areas, 1969-1971



APPENDIX N:

POPULATION  
BY AGE GROUPS AND SEX  
13 VERMONT HOSPITAL SERVICE AREAS  
1969-1971



## APPENDIX N

## POPULATION\*

By Age Groups and Sex  
13 Vermont Hospital Service Areas  
1969-1971

TOTAL												
AREA...	TOTAL...	<5	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
-----												
TOTAL...	0.	1121136	104361	238242	177324	137478	121332	119844	101589	72504	38541	9921
SHED-1	1.	34317	2865	6927	5493	3918	3639	3720	3438	2532	1416	369
SHED-2	2.	58674	4470	11847	9210	6246	6525	6600	5904	4713	2505	654
SHED-3	3.	22581	1950	4815	3234	2526	2277	2682	2262	1662	927	246
SHED-4	4.	49023	4257	8994	8025	5751	5340	5418	4944	3687	2010	597
SHED-5	5.	70965	6492	13992	10425	8016	7746	7512	7365	5525	3087	705
SHED-6	6.	96999	9561	21324	15459	10917	10149	10242	8502	6642	3507	696
SHED-7	7.	32703	3108	7164	5118	4365	3393	3348	2916	1998	999	294
SHED-8	8.	60852	5331	13149	9606	6417	6345	6942	5676	4554	2244	588
SHED-9	9.	49647	3888	9570	7188	5493	5067	7083	5637	3081	2112	528
SHED-10	10.	149538	12732	30978	22710	17055	15744	17010	14850	10689	6189	1581
SHED-11	11.	154518	14154	32595	22530	18804	17064	16305	15486	10728	5283	1569
SHED-12	12.	312570	32775	70668	53583	44412	34893	30012	22227	14787	7353	1860
SHED-13	13.	28749	2778	6219	4743	3558	3150	2970	2382	1806	909	234
-----												
MALES												
-----												
TOTAL...	0.	546876	53403	122949	86802	68832	59682	57339	48516	31245	14412	3096
SHED-1	1.	17247	1494	3672	2793	2046	1821	1869	1647	1197	564	144
SHED-2	2.	28716	2355	6105	4551	3117	3162	3192	2946	2040	1032	216
SHED-3	3.	10935	978	2532	1563	1233	1116	1278	1134	678	354	69
SHED-4	4.	23478	2163	4569	3966	2862	2658	2655	2235	1566	678	126
SHED-5	5.	34131	3444	7218	5028	3960	3726	3552	3486	2376	1149	192
SHED-6	6.	47736	4770	10980	7665	5559	4893	5058	4179	2943	1455	234
SHED-7	7.	16278	1710	3684	2502	2223	1740	1578	1422	960	336	123
SHED-8	8.	29931	2727	6726	4851	3216	3108	3420	2700	2055	933	195
SHED-9	9.	24573	2037	5037	3516	2775	2499	3447	2856	1353	861	192
SHED-10	10.	71304	6381	15753	10743	8409	7728	8058	7137	4458	2193	444
SHED-11	11.	74676	7176	16824	10857	9246	8499	7857	7236	4572	1977	432
SHED-12	12.	153735	16776	36621	26433	22380	17208	14460	10422	6234	2565	636
SHED-13	13.	14136	1392	3228	2334	1806	1524	1515	1116	813	315	93

## APPENDIX N

POPULATION\*  
By Age Groups and Sex  
13 Vermont Hospital Service Areas  
1969-1971

## FEMALES

TOTAL...	0.	574260	50958	115293	90522	68446	61650	61905	53073	41259	24129	6825
SHED-1	1.	17070	1371	3255	2700	1872	1818	1851	1791	1335	852	225
SHED-2	2.	29958	2115	5742	4659	3129	3363	3408	2958	2673	1473	438
SHED-3	3.	11646	972	2283	1671	1293	1161	1404	1128	984	573	177
SHED-4	4.	25545	2094	4425	4059	2889	2682	2763	2709	2121	1332	471
SHED-5	5.	36834	3048	6774	5397	4056	4020	3960	3879	3249	1938	513
SHED-6	6.	49263	4791	10344	7794	5358	5256	5184	4323	3699	2052	462
SHED-7	7.	16425	1398	3480	2616	2142	1653	1770	1494	1038	663	171
SHED-8	8.	30921	2604	6423	4755	3201	3237	3622	2976	2499	1311	393
SHED-9	9.	25074	1851	4533	3672	2718	2568	3636	2781	1728	1251	336
SHED-10	10.	78234	6351	15225	11967	8646	8016	8952	7713	6231	3996	1137
SHED-11	11.	79842	6978	15771	11673	9558	8565	8448	8250	6156	3306	1137
SHED-12	12.	158835	15999	34047	27150	22032	17685	15552	11805	8553	4788	1224
SHED-13	13.	14613	1386	2991	2409	1752	1626	1455	1266	993	594	141

\* 1970-Census Population multiplied by three

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