DOCUMENT RESUME

ED 095 414 CE 001 981

AUTHOR Sappenfield, Robert W.: And Others

TITLE Report of the Louisiana Statewide Planning for

Physician Residency Program Committee.

INSTITUTION Louisiana Regional Medical Program, Baton Rouge.;

Louisiana State Office of Comprehensive Health

Planning, Baton Rouge.

SPONS AGENCY National Institutes of Health (DHEW), Bethesda, Md.

Bureau of Health Manpower Education.

NOTE 132p.

EDRS PRICE MF-\$0.75 HC-\$6.60 PLUS POSTAGE

DESCRIPTORS Data Analysis; Demography; *Health Needs; Manpower

Development; Models; Occupational Surveys; *Personnel

Needs; *Physicians; *State Surveys; *Statewide

Planning; Tables (Data)

IDENTIFIERS *Louisiana

ABSTRACT

Preceding the body of the report, a brief review of the literature is provided to acquaint the reader with similarities and differences between national and local trends regarding the demographic characteristics of the physician population. The goal of the statewide residency study was to develop a strategy for the design and allocation of physician residencies consistent with statewide needs. A graphic model of the physician manpower production process was developed which enhanced understanding of the manpower problems facing Louisiana. Through the model, available data, and personal interviews with senior medical students and postgraduate trainees, data were compiled and analyzed regarding the need for physicians in Louisiana in 1982, where and how the number of physicians can be increased, the status of primary care treatment, likely sites for practicing physicians, and related concerns. The general conclusions point to several significant manpower production problems in Louisiana in its preparation for future needs for physician services. The study committee proposed several recommendations to meet the problem. (Appendixes contain supplementary tables and interview forms.) (AG)

LOUISIANA REGIONAL MEDICAL PROGRAM and BUREAU OF HEALTH MANPOWER EDUCATION

Contract No. NIH 72-4340

REPORT OF THE LOUISIANA STATEWIDE PLANNING FOR PHYSICIAN RESIDENCY PROGRAM COMMITTEE

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE TO
EDUCATION
THIS DOCUMENT HAS BEEN REPRO
DUCED EXACTLY AS RECEIVED FROM
THE PERSON OR ORGANIZATION ORIGIN
ATING IT POINTS OF VIEW OR OPINIONS
STATED DO NOT NECESSARILY REPRE
SENT OFFICIAL NATIONAL INSTITUTE OF
EDUCATION POSITION OR POLICY

Prepared by:

Robert W. Sappenfield, M.D.
Michael H. Moskowitz, M.P.H.
Pamela S. Allison, B.A.
Yogesh C. Patel, Ph.D.

IN COOPERATION WITH

THE LOUISIANA OFFICE OF COMPREHENSIVE HEALTH PLANNING



ACKNOWLEDGEMENT

Special Acknowledgement for their assistance in the preparation of this report must go to J. A. Sabatier, Jr., M.D., Director,
Louisiana Regional Medical Program, Beverly Barid, M.S.W., Louisiana
Regional Medical Program, Jerianne Heimindinger, B.A., Louisiana
Regional Medical Program, Jack Edwards, B.A., State Office of Comprehensive Health Planning, Ronald Preston, M.S.W., State Office of
Comprehensive Health Planning, Glenn Chustz, B.S., State Office of
Comprehensive Health Planning, James Haug, Department of Survey Research,
A.M.A., Gene Roback Department of Survey Research, A.M.A., Jo Reed,
Jeannie, L. Moore, Sylvia Minor, M.S.W., Louisiana Regional Medical
Program, Sherryl McCutchen, Faye Serpas, Louisiana Regional Medical



TABLE OF CONTENTS

	Page
Acknowledgement	i
Overview	1
Brief Review of Literature	3
Background	8
Results and Interpretation of Planning Process	
Physician Manpower Production Process	12
Presently Available Data	15
Data From the AMA Tapes	31
Data From Interviews	48
Discussion	82
Summary and Recommendations	87



Table	Number	Title	Page Number
1		Various Estimates of Physician Needs in Louisiana 1982	1 6
2		Five Examples Illustrating Quantitative Aspects of the Physician Manpower Production Process	18
3		Comparison of Some Physician Specialist/ Population Ratios for Louisiana and the United States in 1970 and for Prepayment Group Practice	23
4		Physician Needs by Specialty in La. for 1980-82 Based on 4,000,000 Population	24
5		Active Nonfederal Physicians in La. 1970 (interns and residents excluded)	25
6		Comparison of the Present Distribution of Final Year Resident Positions of Various Medical Specialties with Certain Distributions Projected for 1982	27
7		The Journal of the American Medical Association (JAMA) Education Number	29
8	,	Distribution of Non-Federal Physicians* Graduated from Louisiana State Institutions by Year of Graduation - December 31, 1972	32
9		Distribution of Non-Federal Physicians Graduated from Louisiana State Institutions by Year of Graduation and Practice State - December 31, 1972*	33
10		Distribution of Non-Federal Physicians in Louisiana by State of Graduation, Employment Sector and Year of GraduationDecember 31,1972	34 *



Table	Number	Title	Page	Number
11		Distribution of Non-Federal Physicians* Graduated from Louisiana State Institutions by State of Practice and Professional Activity - December 31, 1972		36
12		Distribution of Non-Federal Physicians* in Louisiana, by State of Graduation and Major Professional Activity - December 31,1972	2	37
13		Distribution of Non-Federal Physicians Graduated from Louisiana State Institutions by Primary Specialty and State of Practice - December 31, 1972*	•	39
14		Distribution of Non-Federal Louisiana Physicians by Primary Specialty December 31, 1972*		42
15		Distribution of Non-Federal Physicians in Louisiana by Major Specialty Group State of Graduation and Year of Graduation - December 31, 1972		पंग
16	r	Distribution of Non-Federal Physicians Graduated from Louisiana State Institutions by Major Specialty Group, State of Practice and Year of Graduation - December 31, 1972		46
17	,	Future Training Location of Senior Medical Students by Medical School		49
18		Future Practice Location of Senior Medical Students by Training Location and by Medical School		51
19)	Influence of Medical Schools in Decisions of Senior Medical Students Regarding General Practice in Areas of Family Practice, Pediatr and Internal Medicine by Future Specialty	ics	53



able	Number	Title	Page	Number
20		Future Practice Location of Senior Medical Students by Training Location and by Specialty		54
21		Factors Influencing the Decision of Future Training Location for Senior Medical Students, by Medical School		56
22		Ranked Factors which Influenced the Decision of Senior Medical Students on Training Location, by Training Location	÷	57
23		Factors Influencing the Decision of Future Practice Location for Senior Medical Students by Future Practice Location and Medical School Attended		59
24		Ranked Factors Influencing Practice Location of Senior Medical Students by Practice Location		61
25		Type of Practice Preferred by Senior Medical Students, Interns, 1st Year Residents, Final Year Residents, and Family Practice Residents	;	63
26		Desired Community Size for Future Practice by Senior Medical Students, Interns, First Year Residents, and Final Year Residents		64
27		Future Practice Location by First Year Residents, Final Year Residents, and by Specialty		66
28		Future Practice Location by Interns and Family Practice Residents		67
29		Factors Influencing the Decision of Post- graduate Medical Training Location by Interns First Year Residents, Final Year Residents, Family Practice Residents & by Medical Specia where Applicable	•	69
		where Applicable	-	



Table	Number	Title	Page	Number
30		Ranked Factors Influencing Training Location by Interns, First Year Residents and Final Year Residents		70
31.		Perceived Strengths of Postgraduate Medical Training Programs in Louisiana by Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Medical Specialty where Applicable		72
32		Perceived Weaknesses of Postgraduate Medical Training Programs in Louisiana by Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Medical Specialty where Applicable		7 3
33		Factors Influencing the Decision of Future Practice Location by Senior Medical Students, Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Future Practice Location		75
34		Ranked Factors Influencing Practice Locations of all Postgraduate Trainees by Practice Location		76
35		Ranked Factors Influencing Practice Location by Interns, First Year Residents and Final Year Residents		79



OVERVIEW

The section of this report entitled "Overview" is a basic discussion of why the Statewide Planning for Physician Residency Programs Committee was formed and what action the Committee has taken. The Committee was established on March 29, 1972. A meeting was called and all agencies involved in residency training programs in Louisiana were asked to attend. As a result, a permanent committee was established.* CHP and RMP agreed to provide staff for the Committee and by mutual agreement it became a subcommittee of both the CHP and RMP Manpower Committees.

At the May, 1972 meeting the staff discussed the future of physician problems in Louisiana such as physician shortages, specialty and geographic maldistribution, certification of post-graduate education, and the need for long range planning in these areas. Action items authorized by the Committee included a search for funds which resulted in the contract awarded to the Regional Medical Program by the Bureau of Health Manpower Education for the sum of \$15,918; an in-depth review of presently existing physician manpower information in Louisiana; and the search for and development of new and more complete information to serve as the basis for future Committee recommendations.

At the December, 1972 meeting the methodology for completing the scope of work section of the BHME contract was described and adopted by the Committee. The Committee was kept aware of problems encountered by the staff in gathering certain data for analysis.

^{*} For membership see Appendix



In April, 1973, the Committee reaffirmed its permanent role and pledged to continue studying and developing solutions to Louisiana's residency training problems. It is the stated intent of the Committee to use the information supplied to them by the staff as it becomes available to plan for the future needs of Louisiana's physician manpower pool.



BRIEF REVIEW OF THE LITERATURE

It is not the purpose of this report to develop a lengthy review of the literature regarding the demographic characteristics of the physician population in the United States. This has previously been accomplished by groups more interested in national trends. The purpose of this literature review is to acquaint the reader with similarities and differences between national and local trends. Caution should be used, however, in giving too much significance to the material discussed in the literature review for two major reasons. First, a good deal of the conclusions drawn from studies dedicated to physician demography conflict. This is often due to varying and questionable methodoligies used in the studies to reach the conclusions. Second, Louisiana is the only state in the United States with a dual health core system, separating the indigent from the general population. This often makes it difficult to apply nationally developed data for statewide planning purposes.

A great deal of the present literature, as well as earlier literature, deals with the development of "ideal" physician to population ratios and recommendations regarding increased medical school en collment to reach these ratios. Wilson (1) examined the various reports and commissions making such recommendations.

Examples include the 1956 Bayne-Jones Report, the 1959 Bane Report, the 1968 National Institutes of Health (NIH) Study, the Howard Report of the Association of American Medical Colleges (AAMC), and the Carnegie Commission's "Higher Education and the Nation's Health."

The historical Bayne-Jones and Bane reports recommended increases in the number of medical school and osteopathic school



graduates as well as increases in the number of medical schools.

The projected figures for medical graduates for both reports were met either on or before schedule. Deficiencies still remain.

The NIH Study, the AAMC Study, and the Carnegie Commission Report all recommended increases in the number of medical school graduates that would account for an increase of 50,000 practicing physicians by the early 1980's.

There are severe problems with all of the projected figures of future physician needs. Most are developed either to maintain present ratios or reach some "ideal" ratio. The problem is that neither of these methods is precise. Another problem regarding physician projections often cited in the literature is that the projections do not account for the end result of rapidly expending medical school enrollment and development, i.e., a market glutted with expensively trained physicians, unable to find employment. Credence has been lent to this argument through similar situations in other professions.

Another large section of the literature deals with physician distribution on a national basis. This is of little interest to this study, other than to mention increased migration of physicians to the far west and northeast urban centers. A general trend of physician migration to large metropolitan areas throughout the United States is noted as well.

A sizable group of studies has been developed concerning factors which attract physicians to practice location. These studies examine variables such as number of hospital beds, number and quality of internship and residency programs, number of medical schools in cities, economic and educational levels of



different states, and population growth. Scheffler (2) stated that the greatest correlation existed between the number of high quality internship and residency programs and the number of medical and surgical specialists attracted to practice in a state. Another high correlation existed between the number of hospital beds and the number of physicians. Scheffler found a low correlation to exist between state of medical school education and state of internship and residency. Parker et al (3) discovered that states with the highest education levels gained the most physicians. Parker also discovered that population growth was highly correlated with growth of the physician manpower pool.

The question raised with all of these location of practice determinations is whether they are examining the real factors or the manifestations of the underlying reasons that determine physician location. Another problem with these studies is that few surveyed the physician populations being studied to directly ask questions concerning factors influencing practice location.

Parker did use the survey method to determine when a group of physicians in the eleven counties comprising the Rochester Regional Hospital Council decided to practice in their present locations. It was found that the greatest percentage decided during internship and residency. In addition, Parker found that physicians in both large and small communities agreed that physicians were deterred from small community practice for the reasons of personal preference towards urban living, lack of adequate facilities in small communities, influence of spouse, too large a work load and too little time off in small communities, lack of specialty support services in small communities and lack of



cultural events and entertainment in small communities.

Another interesting trend illustrated by Scheffler (2) is the decrease exhibited nationally of physicians practicing in their state of medical school graduation from 44.2% in 1963 to 43% in 1967. Although this decrease does not look particularly significant when first examined, it can be seen that if the 16,534 new physicians who entered practice between 1963 and 1967 accounted for this change, then only 25.3% were practicing in their states of medical school graduation.

A continuing review of the literature is planned as further progress is made in our own investigations. The information would then be coordinated to give the committee a clearer understanding of the physician manpower production process and its effects as they relate to Louisiana.



REFERENCES

Wilson, Marjorie P., "Medical Schools in the Planning Stage: Are More Needed?". <u>Journal of Medical Education</u>, Vol. 47. No. 9, September 1972, pp. 677-689.

Scheffler, R.M., Ph.D., "The Relationship Between Medical Education and the Statewide Per Capita Distribution of Physicians," Journal of Medical Education, Vol. 46, November 1971, pp. 995-998.

Parker, Ralph C., Jr., M.D. and Thomas G. Tuxill, R.S., "The Attitudes of Physicians Towards Small Community Practice," University of Rochester School of Medicine and Dentistry, Rochester, N.Y., Journal of Medical Education, Vol. 42, April 1967, pp. 327-344.

Steinwald, Carolyn, "Factors Influencing the Distribution and Location of Physicians: Literature Review," <u>Distribution of Physicians in the U.S.</u>, 1971, Chicago, The American Medical Association, 1972, pp. 25-31.

Lee Edgar, M.D., Charles Jeffry, M.P.H., Marion Broder, M.A., Michal Berkus, A.M., Paul Jones, Ph.D. and Robin Lake, Ph.D., Physician Demography in Ohio - 1971, Ohio Board of Regents, 1972.

Schonfeld, Hyman, Jean Heston and Isidore S. Falk, "Numbers of Physicians Required for Primary Medical Care," The New England Journal of Medicine, Vol. 286, No. 11, March 16, 1972, pp. 571-576.

Boulton, Donald A., Ed. and Davis G. Johnson, Ph.D., "Follow-up Study of Medical School Alumni," <u>Journal of Medical Education</u>, Vol. 45, June 1970, pp. 442-446.

Mason, Henry, "Manpower Needs by Specialty," <u>Journal of the American Medical Association</u>, Vol. 219, No. 12, December 11, 1972, pp. 1621-1626.

Steinwald, Carolyn, "A Critique of Manpower Needs by Specialty." <u>Journal of the American Medical Association</u>, Vol. 221. No. 11, December 11, 1972, pp. 1411-1412.

Fahs, Ivan J., Ph.D., Katheryn Ingalls, B.S., and Winston R. Miller, M.D., "Physician Migration, A Problem of the Upper Midwest," Northlands Regional Medical Program, Journal of Medical Education, Vol. 43, June 1968, pp. 735-740

A Report on Physician Manpower and Medical Education, Council on Medical Education and Council on Mealth Manpower, American Medical Association, Chicago, June 1971.



BACKGROUND

The overall goal of the statewide residency study was to develop, in collaboration with the primary interested parties in Louisiana, a strategy for the design and allocation of physician residencies consistent with statewide needs. The objectives used to achieve this goal were as follows:

- 1. To describe the physician manpower production system that presently exists in Louisiana.
- To examine the effectiveness of the present manpower production system.
- To preduct future needs of Louisiana for physician manpower through 1982.
- 4. To list different methods to alter the physician production system to meet the present and future needs of Louisiana.

The methodology used in the planning process consisted of the development of a graphic model of the physician manpower production process, the use of presently available data to project future needs and to illustrate the use of the model mentioned above, the use of new sources of data in the form of AMA-developed computer tapes and personal interviews with senior medical students and postgraduate trainees, and consideration by the Committee of alternative actions to remedy deficiencies uncovered.

A schematic diagram entitled "The Graphic Outline of Physician Manpower Production Process" was developed. It is principally based on the concept of the "resident graduate" as the finishing product of the system, ready to enter a lifetime of practice in



his area of competence. The important aspects of the production process are outlined including all losses and all gains for Louisiana. The major patterns followed by physician trainees are illustrated.

The use of this graphic model to enhance our understanding of the manpower problems that face Louisiana and possible objectives to be achieved were illustrated by the following activities. Prediction of future physician need in Louisiana was based on present and various adjusted physician-to-population ratios. Present estimates and possible alternative quantities were assigned to the various inputs and outputs of the model. Various methods of achieving the number of physicians needed for Louisiana to equal the U.S. physician-to-population ratio by 1982 were illustrated. Next, the present distribution of physicians in Louisiana by specialty, the estimated number of specialists needed in 1982, and the distribution of final year residency positions in Louisiana by medical specialty were compared. The number of residency positions offered in Louisiana by specialty and the number of foreign medical graduates filling residency positions were considered in interpreting the data on hand. The use of the model also made evident the need for more specific information concerning different aspects of the physician manpower production process as related to Louisiana and its future needs.

The AMA was contacted by the Committee Chairman, Dr. Robert Sappenfield, Louisiana State University Medical School in New Orleans, and Dr. Joseph A. Sabatier of Louisiana Regional Medical Program. Mr. Jim Haug, with the AMA's Statistics Division at



that time, came to Louisiana as a consultant to the staff regarding the information available in the AMA tapes.* The staff requested that three tapes be sent to aid with the residency study. The first was a tape of practicing physicians in Louisiana, the second was a tape of all graduates of Louisiana medical schools, and the third was a tape of all residents and interns trained in Louisiana. The third tape has not yet been received. It is hoped that the information in the tapes will aid in the refinement of the rough data that was gathered and delivered to the Committee in the early meetings.

It was felt by both the staff and the committee that a residency study would have little value if the opinions of Those who were presently going through the process were not examined. This was especially true in terms of giving consideration to possible reasons for the decisions made by trainees as they progress through the manpower production process. Interview forms were developed for senior medical students, interns, first year residents, and final year residents.* All of the forms contained comparable questions from which parallel data could be collected and developed into tabular form.

Senior medical student interviews were conducted from a one-fourth sample each of LSU Medical School in New Orleans and Tulane Medical School and a 100% sample from LSU Medical School in Shreve-port. The intern and first year resident interviews were conducted from one-third samples from Ochsner Clinic and Charity Hospital and

*See Appeadix



a full 100% sample from Confederate Memorial Hospital in Shreveport. Final year resident interviews were conducted from a onethird sample of Charity Hospital, a full sample of Ochsner Clinic,
and a full sample of Confederate Memorial Hospital. All eight
family practice residents presently in training in Louisiana were
also interviewed. Final results were adjusted in order to equalize
the sample sizes.

As information has become available from the first three activities undertaken the expertise of Committee members was used to react to the data, to suggest modifications in methodology, and to develop clearer understanding as a group of the problems to be faced. The Committee consisted of administrators representing the institutions responsible for the major residency programs in Louisiana, the Louisiana State Medical Society, the Health Education Authority of Louisiana, the Louisiana State Department of Hospitals, Tulane and LSU Medical Centers, the Confederate Memorial Medical Center, Louisiana's agency for Comprehensive Health Planning, and the Louisiana Regional Medical Program. The composition of the Committee has been modified as necessary to guarantee continued representation of those institutions that hold major responsibilities in the obysician manpower production process for Louisiana.



RESULTS

AND

INTERPRETATION

OF

PLANNING PROCESS



GENERIC OUTLINE OF PHYSICIAN MANPOWER PRODUCTION PROCESS

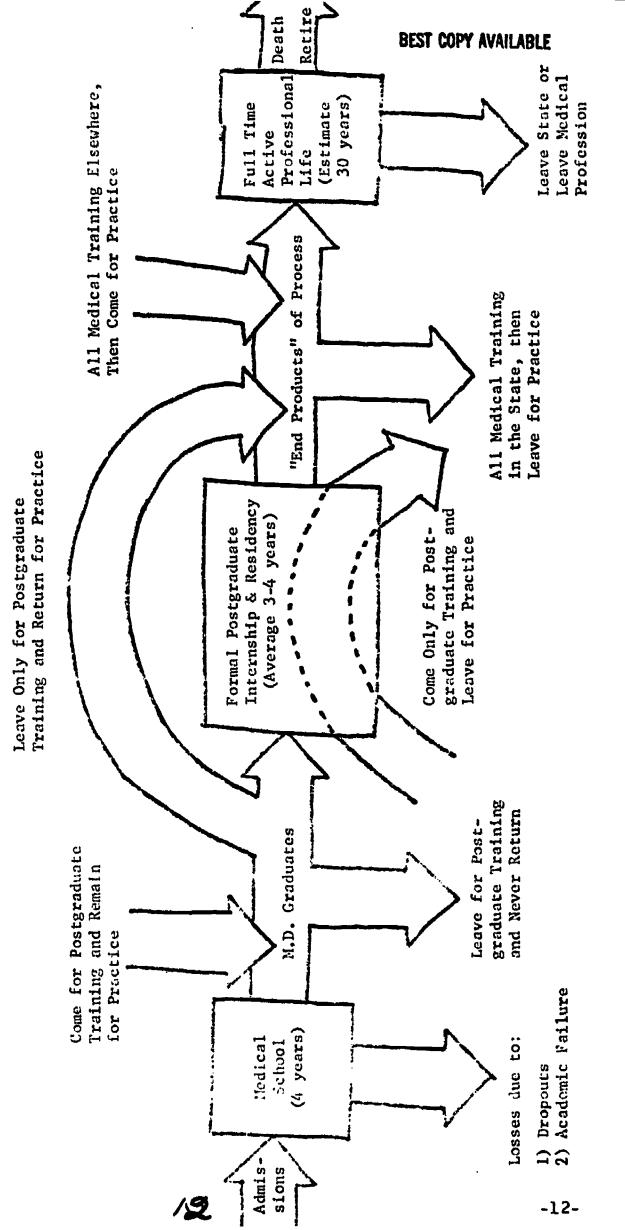




Figure 1 is an oversimplified graphic outline of the physician manpower production process. As can be seen, it is divided into three major time periods. Namely, four years of medical school, an average of three to four years postgraduate training including internship and residency and the fulltime active professional life which is estimated to be approximately 30 years. The various arrows in the outline demonstrate the input and output of the manpower production system.

We are also interested in the various points of input into this process. Of course the most important point of entry. quantity-wise, is at admission. A number of trainees come after medical school training elsewhere for postgraduate training and then remain here for practice, or come from elsewhere after completing their postgraduate training and then find a place for practice in Louisiana. After admission, the following points explain the losses that occur. That is, losses in terms of people who spend their fulltime professional career in Louisiana. The first loss is from dropouts or academic failure in medical school. The second is those that leave after medical school for postgraduate training elsewhere and never return to the state of Louisiana. The third major point of egress is after residency when they leave for practice in a state other than Louisiana. A fourth point illustrates those few who change location of practice to another state after entering practice in Louisiana. This usually occurs within the first few years of practice if it is to occur at all. This last comment is made in terms of those physicians who are primarily involved in direct patient care. The final



point of egress, of course, is death or retirement after a full professional life.

Three major patterns should be mentioned because of their frequency of occurrence. 1) Those who are admitted to medical school go on to take their postgraduate training here and then decide to stay in Louisiana for their professional practice career. This group indeed is the largest of the groups that we are dealing with in this model. 2) Those physicians who completed medical school here and then went elsewhere for their postgraduate training either in part or in full and then returned for their professional practice location in Louisiana. 3) The group that were trained elsewhere, come here for their postgraduate training in part or in full, and leave for some location other than Louisiana for their professional practice. There are many variations of the themes just described but this graphic outline does illustrate the major points of entrance and loss in the man-power production process as it affects the state of Louisiana.



Presently Available Data

The following series of tables were developed as of December, 1972 prior to receiving the AMA computer tapes of Louisiana Physicians and Graduates of Louisiana medical schools. The tables are presented as they were originally developed. It is planned to refine them in accordance with more accurate data when such become available.

Table I gives various estimates of the overall physician manpower need for Louisiana in 1982. In determining the base ratios for Louisiana and the United States (Estimates A and C), physicians included are active non-federal physicians of all professional activities as of December 31, 19701. Physicians involved in research, teaching, or administrative activities are included since they, as well as patient care physicians, undergo the entire physician manpower production process previously In Estimate B the average prepayment group practice described. plan ratio of 1/1000 has been adjusted since this ratio includes only patient care physicians exclusive of interns and residents in hospitals. In Louisiana in 1970, 340 physicians or 10% of the total active number excluding interns and residents were involved in activities other than patient care. Assuming that this 10% will remain constant in 1982, the ratio of 1/1000 represents 90% of the total number needed. Therefore, to adjust for the physicians not involved in patient care, the one physician is divided by .9 to get a ratio of 1.11 physicians needed per 1000 population. This ratio of 1.11/1000 equals 1/900.



TABLE 1

VARIOUS ESTIMATES OF PHYSICIAN NEED IN LOUISIANA 1982

	Base from which 1982 needs are projected	Physician/Population Ratio (Adjusted)	Physicians needed in La. 1982 Pop. 4,031,405	No. of Physicians in La. 1970 ²
Α.	Louisiana 1970 Phys./Pop. Ratio ²	1/1056	3,818	3,449
В.	Prepayment Group Practice Plan ³	1/900	4,479	
c.	U.S. 1970 Phys./Pop. Ratio ²	1/873	4,618	
D.	U.S. 1970 Phys./Pop. Ratio 4 with 20% Increase	1/728	5,538	

Burford, Roger L. and Sylvia G. Murzyn, <u>Population Projections by Age, Race, and Sex for Louisiana and its Parishes 1970-1985</u>, Occasional Paper Number 10, Division of Research, College of Business Administration, Louisiana State University, Baton Rouge, La; June 1972. The 1982 population figure is a linear interpolation of the 1980 and 1985 population projections of 3,954,789 and 4,146,327.



Distribution of Physicians in the United States 1970, American Medical Association, Chicago, 1971. Included are all active non-federal physicians of all professional activities and excluded are interns and residents as of December 31, 1970.

General ratio of 1/1000 from <u>Health Manpower Perspective</u>: 1967, U.S. Department of Health, Education and Welfare, Bureau of Health Manpower, Washington; 1967 has been adjusted to account for additional physicians not in patient care. In Louisiana in 1970, 340 physicians or 10% of the total excluding interns and residents were not in patient care.

⁴ U.S. 1970 ratio of 1/873 is adjusted by adding 20% more physicians to adjust for a possible 20% increase in demand for service.

In Estimate D the U.S. 1970 ratio is adjusted so as to meet the possible increase in demand for health care services. adjustment, expressed by $\frac{1+.20}{873}$, equals $\frac{1}{728}$. A 20% increase may not be too large an estimate for the next ten year period if the current trends in increased demand continue. A continuing increase in demand seems likely in view of proposed federal health legislation, the increased use of private health and hospital insurance, the steady rise in Louisiana in personal income and in median education, and also certain changes in the composition of the population of the state. According to Roger L. Burford's population projections for 1980³ there will be a slight increase in the percent female and the percent white and a more substantial increase in the percent age 65 and over. The entire population of the state will in general be older, with the under 18 age group decreasing by 5.3%. Physicians visits data for the U.S. for 1970 4 shows an average of 4.6 visits per year per person as compared with 4.3 visits for 1969⁵. The 1970 rates also show the usual pattern of an increase in physicians visits as age progresses: from 3.9 visits per person for persons under 17 to 6.7 visits per person for those 65 and over. The data for 1969 also gives rates by sex, race, and income, with females having a higher visit rate than males at all ages except for those under 17 years and with whites having higher visit rates than non-whites in all age groups. The increase in visit rates by persons with lower incomes is attributed to the Medicare and Medicaid programs.

In summary, increase in demand for medical care seems to be a continuing trend. According to these four estimates, Louis-



TAPLE 2

FIVE EXAMPLES ILLUSTRATING QUANTITATIVE ASPECTS OF THE PHODUCTION PROCESS

Estfmated Number in 1982	4,103	4,618	4,618	4,295	BEST COPY AVAILABLE
Eventual Number of M.D. Hain- tained (30 yrs.)	5,100	099 '9	10,260	7,020	8,490
Total Number Added Each Year	170	222	170 (1st 7 yrs) 342 (last 3 yrs)	170 (1st 7 yrs) 342 (last 3 yrs)	199 (1st 7 yrs) 283 (1ast 3 yrs)
Number with M.D. from out-of-state Med School to Practice in Louisiana	28	37	28	- 28	33 (1st 7 yrs) 47 (last 3 yrs)
Number to Practice in Louisiana (completed all post- graduate training)	142	185	142 (1st 7 yrs) 314 (last 3 yrs)	142 (1st 7 yrs) 206 (last 3 yrs)	163 (1st 7 yrs) 236 (last 3 yrs)
Percent Locating in Louisiana (LSU and Tulane combined)	79• 77	58.2%	44.6%	44.5%	51.1%
Numb er of Graduates	318	318	318 (1st 7 yrs) 704 (last 3 yrs)	318 (1st 7 yrs) 462 (last 3 yrs)	318 (1st 7 yrs) 462 (1ast 3 yrs)
Estimated Loss Before Graduation 1-3	01	01	21	14	14
Munber of Admissions Med School	328	328	725	476	476
Illus- tration	¥	p #	v	a	ьī



iana's need for physician manpower in 1982 ranges from 3,818 to 5,538 depending on the basis used for projecting need. Thus, it can be seen that a large increase in physicians' services or its equivalent (allied health personnel, etc.) will be necessary by 1982.

Table 2 illustrates quantitatively five possible avenues for Louisiana to modify its physician manpower production process using the concepts presented in the graphic model discussed earlier. In developing this table it was necessary to use gross approximations at certain points since reliable data were not available. Background information and assumptions to this table include: a) 3,605 active non-federal physicians in Louisiana in 1972⁶; b) Estimated loss of 3% of medical school admissions before graduation; and c) An average physician "fulltime working life" of about 30 years.

Illustration A shows the estimated number of physicians who will be practicing in Louisiana in 1982 if Louisiana continues to admit the same number of medical students and continues retaining and attracting physicians at the same rate as in the past. The number of admissions (328) is an estimate of the recent number of admissions occurring in the state. The 44.6% retained was a combined percent of about 60% for LSU graduates and 25% for Tulane graduates over the years. (The third medical school in Louisiana just graduated its first class in 1973.) The number of physicians attracted from out-of-state medical schools was determined at approximately 20% of currently practicing physicians in the state. If these physicians are distributed as



entering the state over the 30 years of active professional life, approximately 28 would have entered per year. From the data available it could not be determined at what point in the manpower production process these out-of-state medical school graduates had entered the state for internship, residency or only for practice.

With the average white male life expectancy being about 69-70 years and with most physicians completing residency at age 30 or later, there remain about 39 years for fulltime active practice. Nine years were subtracted to account for change of profession, early retirement, and part-time practice. Therefore, it is estimated that there is a loss of about one-thirtieth of the physician population per year. It has been acknowledged that this is a very rough estimate of attrition since it does not take the age distribution of Louisiana's physicians into consideration, but it serves well enough for the purposes of illustration. If 1/30 is lost each year, then after 30 years a balance in loss and replacement will be reached. This is the 5,100 physicians who will be maintained in the long run. To determine the number of physicians in 1982 it was figured that about 1/30 of the starting number is lost each year and that 170 physicians entered practice in Louisiana each year. Thus, after ten (10) years, 4,103 physicians will be practicing in the state if Louisiana continues to produce, retain, and attract at present rates.

Illustration b indicates the increase in retention rate that will be necessary if Louisiana is to achieve the U.S. 1970



Physician/Population Ratio by 1980 (4,618 physicians) with the same number of medical school admissions of 1972. It is assumed here that an increase in the attractiveness of Louisiana for practice for graduates of Louisiana medical schools (increase in retention rate) will also mean an increase in the attractiveness of Louisiana for out-of-state medical school graduates (increase in attraction rate). The increase in attractiveness could take effect at different time periods in the production process. Depending on this factor, a varying delay period before entry into practice could lower the 1982 estimate as given. The great increase in the retention rate, from 44.6% to 58.2%, would probably be hard to achieve and very difficult to maintain.

Illustration C shows the increase in the number of medical school admissions necessary if Louisiana is to achieve the U.S. 1970 Physician/Population Ratio by 1982 without increasing the attractiveness of the state for practice (no increase in retention or attraction rates). This proposal, expansion of medical school capacity, would be extremely expensive. The increased number admitted would have an inherent time lag between admissions and graduation from medical school of four (4) years plus an average of three (3) years for completion of residency. Thus, the final effects of an increase in admissions would be felt only for the last three years of the ten year period. It also would lead to an excess of physicians in the long run unless future population growth warrants such a large rate of production.

Illustration D serves to show what the picture in 1982



will be if the medical schools in the state admit the maximum number of students now being considered and retention and attraction rates continue as in the past. The number for 1982 falls short of both the prepayment group practice and the U.S. 1970 Physician/Population Ratios. Again the time lag between increased medical school admissions and the physician specialist entering practice must be considered.

Illustration E appears to be a most reasonable compromise. To achieve 4,618 physicians by 1982, with medical school admissions at the capacity being considered, Louisiana would have to increase retention of in-state medical school graduates from 44.6% to 51.1%. Increased attractiveness of Louisiana for instate medical school graduates would mean an increase in attractiveness for out-of-state medical school graduates for both residency and practice. The long term production rate of physicians would probably be more compatible with overall growth in population and increased demand for medical care.

After having examined need in total numbers, the next problem to be considered was physician need by specialty. Again U.S. 1970 and Prepayment Group Practice Specialty Ratios are used as bases of comparison for Louisiana.

Table 3 lists the specialties being studied and the Specialist/repulation Ratios for Louisiana and for the U.S. in 1970⁷ and the average Specialist/Population Ratio for 4-6 prepayment group practices. 8* Again, the ratios for Louisiana and the

^{*} Note on Rounding and Averaging: Where ratios were small, i.e., in the primary care specialties, rounding was to the nearest tenth. Also, any specialty ratio for a prepayment group that was totally different from all other ratios for that specialty was oritted in averaging so as to minimize distortion.



TABLE 3

COMPARISON OF SOME PHYSICIAN SPECIALIST/POPULATION RATIOS FOR LOUISTANA AND THE UNITED STATES IN 1970 AND FOR FEEPAYMENT GROUP PRACTICE

Specialry	La. 1970 Specialty Ratio	U.S. 1970 Specialty Ratio	Average Prepayment Group ₂ Practice Specialty Ratio
General or Family Practice	1/4,400	1/3,830	1/5,000
Internal Medicine (Primary	ary 1/11,000	1/7,050	1/4,300
Pediatrics	1/16,500	1/15,600	1/7,000
Anesthesiology	1/40,000	1/23,000	1/32,700
Dermatology	1/67,500	1/64,000	1/37,500
General Surgery	1/11,000	1/10,000	1/12,500
Neurology	1/145,700	1/103,700	1/109,600
Neurosurgery	1/140,000	1/108,400	1/111,000
Obstetrics-Gynecology	1/13,000	1/13,400	1/10,500
Ophthalmology	1/25,000	1/25,000	1/41,000
Orthopedic Surgery	1/31,000	1/29,000	1/28,000
Ocolaryngology	1/43,000	1/49,000	1/45,000 强
Pathology	1/32,000	1/28,700	1/89,000 ³
Psychiatry	1/18,000	1/13,000	
Physical Medicine	1/728,600	1/206,700	
Radiology	1/29,000	1/26,500	1/33,500 B
Urology	1/44,000	1/44,000	1/52,000
Research, Teaching, Administration, etc.	10% in these activities included in above	11% in these activities included in above	Not included in the above

Distribution of Physicians in the Unites States 1970, AMA, Chicago, 1971. Includes all professional activities and excludes interns and residents.

The table of the fall of the lates of the



² Ratios are based on average of the ratios of 4-6 prepayment group plans, as given in "Manpower Needs by Specialty", JAMA, Vol. 219, No. 12, March 20, 1972, p. 1621. These physicians are involved in patient care only.

4
2
£.
7

1980-82 BASED ON 4,000,000 POPULATION PHYSICIAN NEEDS BY SPECIALIY IN LA.

PAYSICIAN	Physician NEERSELGY Specialty	11 44. 1986-82 BASED ON III. needed	3 AS ED ON 4,600,000	Perulation
Specialty	La. Specialists	in 1980-82	in 1980-82	No. needed
	1970 ¹	to maintain	to achieve	
78.3. 2 4		U1	U.S. 1970	to equal 3
A 7 300 .		Specialty Ratio ¹	Specialty Ratio	Prepayment Ratio
General or Family Practice	se 833	606	1044	800
Internal Medicine		364	567	930
Pediatrics	221	242	256	571
Anesthesiology	91	100	174	122
Dermatology	54	59	63	107
Coneral Surgery	330	364	400	320
Neurology	25	27	39	36
Neurosurgery	26	29	37	36
Obstetrics-Cyn.	283	308	299	381
Ophthalmology	145	160	. 160	86
Orthopedic Surgery	118	129	138	143
Otolaryngology	85	93	82	88
Pathology	113	125	139	453
Psychiatry	202	222	308	823
Physical Medicine	5	5	19	38
Radiology	126	138	151	119
Urology	83	91	91	77
All other specialties, unspecified, and				
unclassiffed	380(11%)	416		
Teaching, administra-	10% in these	Included	11% in these	444

(10% of total)⁵

11% in these activities for

Included in above

10% in these activities are

tion, Research, etc.

TOTAL

included in the above 3449

3781

U.S. as a whole are included in the above

39674



¹ Physician Specialty data and Specialty Ratios are based on data from Distribution of Physicians in the United States 1970, AMA, Chicago, 1971. Includes all active nonfederal physicians of all professional activities

and excludes interns and residents as of December 31, 1970. Ratios are based on the average of the ratios of 4-6 prepayment group plans, as given in "Manpower Needs by Specialty", JAMA, Vol. 219, No. 12, March 20, 1972, P. 1621.

Therefore the Assumes that patient care physicians will remain at 90% and 10% will be involved in other activities. Number is low because these services are contracted for outside the group usually.

4 Does not include physicians in other specialties or unspecified and unclassified physicians. 6 Again, not all specialties are included and the total number is low cotal number is low.

TABLE 5 ACTIVE NONFEDERAL PHYSICIANS IN LA. 1970 (interns and residents excluded)

AGE DISTRIBUTION

	Und≥r 35	35-44	45-54	55- <u>6</u> 4	Over 64	Unknown	Total
All Active Nonfederal	513_	1134	1027	595	281	35	3585
N.D. in La. 1970	14%	32%	29%	17%	8%	1%	101%
General Practitioners	114	236	283	187	100	10	930
	12%	_25%	30%	20%	11%	17	99%
All Other Specialties	399	898	744	408	181	25	2655
	15%	34%	28%	15%	7%	1%	100%

/Madian Age/ GP's = 50.3 years

All Other Specialties = 45.4 years

All Physicians = 46.2 years

Source: American Medical Association

Prepared by: Community Profiles Data Center USPHS



U.S. include all active non-federal physicians of all professional activities and exclude interns and residents. Interns and residents, though they do render service, were omitted since they have not completed the manpower production process and are not settled in practice.

Specialist/Population Ratios given in Table 3 were applied to the population of 1980-82 to estimate need for specialists in Louisiana in Table 4. The number of physician specialists practicing in the state as of December 31, 1970 is compared with these estimates. From this table we can see that Louisiana is doing rather well in most areas, particularly the surgical specialties. Major needs which were consistent throughout the various ratios were in the area of primary care, mainly internal medicine, family practice, and, to some extent, pediatrics. U.S. specialty ratios are applied, the specialties of anesthesiology and psychiatry would need further increase. If we tend toward the prepayment type of practice in the future, dermatology and obstetrics/gynecology would be the types of specialty needed in addition to the primary care area. In interpreting the needs in the primary care area, one must consider information in Table 5 showing that the average Louisiana GP is older than other physician specialists. Secondly, there is a rapidly growing trend for subspecialization in the field of internal medicine which would also lead to our underestimating the primary care needs.

The next logical question to ask is whether Louisiana is training an adequate number of each type of physician specialist need: I to care for the population of the state. In Table 6 $t^{\rm he}$



ဇ TAI

ERIC TO THE PROVIDENCE OF THE PROVIDE OF THE PROVIDENCE OF THE PROVIDENCE OF THE PROVIDENCE OF THE PRO

COMPARISON OF THE PRESENT DISTRIBUTION OF FINAL YEAR RESIDENT POSITIONS OF VARIOUS NEDICAL SPECIALTIES WITH CERTAIN DISTRIBUTIONS PROJECTED FOR 1982

•	Specialty	Estimated No. of Residencies Now Offered in La. in Terms of Final Year Positions	Approximate Low 330 Final Year Residency Positions Distributed According to 1970 U.S. Specialist/Pop. Ratio	Approximate Low 330 Final Year Residency Positions Distributed According to Prepay- ment Group Fractice Specialist/Pop. Ratio	
Ge	General or Fauily Practice	92	87)	59	•
In	_	44 7 75	$47 \left\langle \begin{array}{c} 155 \\ Primary Care \end{array} \right.$	69 \ Primary Ca	Care
Pe	Pediatrics				
Am	Anesthesiology	10	14	6	
De	Dermatology	7	ſΛ	œ	-
ຍ	General Surgery	29	33	54	
Ne	Neurology	6	೯	ຕ	,
	Neurosurgery	2	က	က	
නි 27-	Obstetrics-Gynecology	21	25.	28	
	Ophthalmology	11	13	BEST	
Or	Orthopedic Surgery	11	11	. co i	
0	Otolary ngol <i>o</i> gy	80	7	PY A	
Pa	Pathology	11	12	vail e	
Ps	Psychiatry	14	26	ABL	
Ph	Physical Medicine	•	2	E e	
Ra	Radiology	15	13	6	
Ur	Urology	11	8	9	
Re Adı	Rescarch, Teaching, Administration, etc.	Included Above	Included Above	Subtotal 297 (90% Patient Care) 33 (10% Administration	Care)
TO	TOTAL	225	330	330 Teaching, Research,	g, th, etc.

Number needed to accommodate students currently being admitted to the medical schools in Louisiana, if there is to be a postgraduate position available to each graduate.

2 General Practice M.D.s are older; number is decreasing yearly.

An dermonistic e wilde desenses the contract of the contract of the desentation of the desiral contract of the contract of the desiral contract of the contrac

estimated number of final year residency positions in Louisiana by specialty are given. This is a measure of our capacity for training the various types of physician specialists each year in Louisiana. If in the future there is to be a residency position open to each student graduated from a Louisiana medical school, then the number of positions now offered is about 100 short of what will be needed to accommodate the class of 1976. It is apparent that 330 residency positions are a minimum of what will be needed by 1980, considering the expansion of first year medical student admissions that is planned. In Table 6 these 330 positions are distributed proportionately among the specialties listed according to the U.S. 1970 Specialist/Population Ratios and the Prepayment Specialist/Population Ratios. This table indicates that Louisiana has the capacity to produce adequate numbers in most specialties, but in the area of primary care our needs and our capacity for production are very incongruent.

positions offered and the number and percent filled beginning with the year 1965-66 and going through the year 1969-70⁹. The percentage filled for the internship positions has varied greatly. But for the residency positions offered in the state the percentage has steadily increased over the five year period. There is a large jump in percent filled, from 78% to 84% for the years 1968-1969 and 1969-1970. However, if the table is examined more closely it can be seen that actually a fewer number of positions were filled in 1969-70 than in 1963-69 and that the larger percentage filled for that year is due to the fact that fewer positions were offered. In order to really understand the problems related to



TABLE 7 THE JOURGAL OF THE AMERICAN MEDICAL ASSOCIATION (JAMA) EDUCATION NUMBER

Louisiana-Total Number of Residency Offered and Filled

YEAR	# OF HOSPITALS	# OF APPROVED PROGRAMS	TOTAL POSITIONS OFFERED	TOTAL POSITIONS FILLED	POSITIONS VACANT	PERCENTAGE FILLED
1969-1970	24	75	759	636	123	84%
1968-1969	17	81	810	649	161	76%
1967-1968	19	84	732	558	174	76%
1966-1967	15	87	739	561	178	76%
1965-1966	16	90	722	537	185	74%

Louisiana-Total Number of Internship Offered and Filled

YEAR	# OF HOSPITALS	# OF APPROVED PROGRAMS	TOTAL POSITIONS OFFERED	TOTAL POSITIONS FILLED	POSITIONS VACANT	PERCENTAGE FILLED
1969-1970	_15	53	259	160	99	62%
1968-1969	5	22	115	62	53	54%
1967-1968	11	40	239	186	53	78%
1966-1967	9	40	247	178	69	72%
1965-1966	8	27	219	147	72	67%



our specialty needs, it is necessary to have information concerning the percentage of residency positions filled in each specialty to be evaluated. These data are not available for consideration at this time.

Another aspect to be considered is the person filling the position. For the U.S. as a whole, the influx of Foreign Medical Graduates has increased the percentage of positions filled. There are no trend data on the FMG in Louisiana currently available. However, for the year 1969-70 Foreign Medical Graduates were accepted for 92 or 14.5% of 636 positions. This compares with 33.0% of all residency positions filled in the United States 10. The use of Foreign Medical Graduates is not viable as a long term solution for meeting Louisiana's physician manpower needs since present regulations discourage their selection of Louisiana for their permanent practice location.



Data from the American Medical Association Tapes

This section of the report deals with the preliminary analysis of data from the original computer tapes of the American Medical Association (AMA) which were mentioned in the methodology section of this report. As has already been stated, one of the three tapes requested, on residents, interns and fellows trained in Louisiana was not available at the time of this report. Therefore, the data analyzed are from the tape on graduates from Louisiana medical schools and the tape on physicians practicing in Louisiana as of December 31, 1972.

There are 7,085 non-federal practicing physicians who have graduated from Louisiana medical schools.* Of these 7,085 graduate physicians, 2,754 (38.9%) are presently practicing in Louisiana and 4.331 (61.1%) are practicing out of the state. As can be seen in Table 9. "Distribution of Non-Federal Physicians Graduating from Louisiana State Institutions by Year of Graduation and Practice State, December 31, 1972," the percent of graduates from Louisiana medical colleges remaining in Louisiana has been steadily increasing. This is partially due to the founding and increased enrollment of Louisiana State University Medical School in New Orleans. This figure should continue to increase due to the founding of LSU Medical School in Shreveport. It is unknown whether the 48.9% of the graduates from Louisiana medical colleges during the period 1965 to 1969 who are now practicing in Louisiana is an actual forecast of the percent who will be practicing here when all interns and residents have finished their training programs.

^{*}excluding Interns and Residents



TABLE 8

DISTRIBUTION OF NON-FEDERAL PHYSICIANS* GRADUATED FROM
LOUISIANA STATE INSTITUTIONS** BY YEAR OF GRADUATION - DECEMBER 31, 1972

and the contract of the contra

Year of Graduation	Frequency	Percent
¹² 1899 & under	2	0.0
1900 - 1919	150	2.1
1920 - 1929	418	5.9
1930 - 1934	363	5.1
1935 - 1939	598	8.4
1940 - 1944	1083	15.3
1945 - 1949	853	12.0
1950 - 1954	1033	14.6
1955 - 1959	1063	15.0
1960 - 1964	926	13.1
1965 - 1969	476	6.7
1970 & above	120	1.7
Total	7085	100.0



^{*} Excludes Interns and Residents

^{**} Louisiana State University and Tulane University Schools of Medicine

TABLE 9

DISTRIBUTION OF NON-FEDERAL PHYSICIANS GRADUATED FROM LOUISIANA STATE
INSTITUTIONS BY YEAR OF GRADUATION AND PRACTICE STATE - DECEMBER 31, 1972*

Year of Graduation	Practicing in Louisiana		Practici of Loui		All Physicians*		
O L d d d d L L J M	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cent	
Up to 1919	58	38.2	94	61.8	152	100.0	
1920 - 1929	139	33.3	279	66.7	418	100.0	
1930 - 1939	319	33.2	642	66.8	961	100.0	
1940 - 1944	374	34.5	709	65.5	1083	100.0	
1945 - 1949	306	35.9	547	64.1	853	100.0	
1950 - 1954	420	40.7	613	59.3	1033	100.0	
1955 - 1959	445	41.9	618	58.1	1063	100.0	
1960 - 1964	397	42.9	529	57.1	926	100.0	
1965 - 1969	233	48.9	243	51.1	476	100.0	
1970 -	63	52.5	57	47.5	120	100.0	
Totals	2754	38.9	4331	61.1	7085	100.0	



^{*} Excludes Interns, Residents

BEST COPY AVAILABLE

TABLE 10

DISTRIBUTION OF NON-FEDERAL PHYSICIANS IN LOUISIANA BY STATE OF
GRADUATION, EMPLOYMENT SECTOR AND YEAR OF GRADUATION--DECEMBER 31, 1972 *

Year of Graduation	Louisiana Graduates		Othe Gradua	_		Total Physicians		
	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cent		
Up to 1919	59	63.4	34	36.6	93	100.0		
1920 - 1929	139	67.8	66	32.2	205	100.0		
1930 - 1939	319	67.6	153	32.4	472	100.0		
1940 - 1944	374	75.6	121	24.4	495	100.0		
1945 - 1949	306	68.2	143	31.8	. 449	100.0		
1950 - 1954	420	73.9	148	26.1	568	100.0		
1955 - 1959	445	75.3	146	24.7	591	100.0		
1960 - 1964	397	65.3	211	34.7	608	100.0		
1965 - 1969	232	64.1	130	35.9	362	100.0		
1970 - 1974	63	67.0	31	33.0	94	100.0		
Total	2755	70.0	1183	30.0	3938	100.0		



^{*}Excludes Interns and Residents

If this is the trend, Louisiana is in the position of maintaining a larger physician population from its medical colleges. This is not the case in the rest of the United States. In 1963, approximately 44.2% of all physicians in the United States were practicing in the states where they graduated from medical school. In 1967 only 43.0% were practicing in the states where they attended medical school. This decrease meant that if it was due to new practitioners, from the years 1963 to 1967, only 25.3% of the new medical practitioners were practicing in the states in which they graduated from medical college. If the 1965 to 1969 and the 1970 onward data do hold up as interns and residents finish their programs, then Louisiana will be one of the few states where strong links remain between the state of medical school graduation and the state of practice.

Table 10, "Distribution of Non-Federal Physicians in Louisiana by State of Graduation, Employment Sector and Year of Graduation, December 31, 1972," shows that of the 3,938 non-federal physicians practicing in Louisiana, 70.0% are graduates of Louisiana medical schools and 30.0% are graduates of other medical schools. When looking at the trend, it can be seen that with one exception, the percent of Louisiana graduates among the physician population increased on a percentage basis to 75.3% by 1955 to 1959. The period 1960 to 1964 shows a decrease to 65.3% educated in Louisiana medical colleges. If the findings in Table 9, that the percentage of graduates from Louisiana medical colleges staying in Louisiana for practice is increasing, are coupled with the findings in Table 10, that the percentage of physicians practicing in Louisiana that graduated from Louisiana medical colleges is decreasing, then the



BEST COPY AVAILABLE

TABLE 11

DISTRIBUTION OF NON-FEDERAL PHYSICIANS* GRADUATED FROM LOUISIANA STATE
INSTITUTIONS BY STATE OF PRACTICE AND PROFESSIONAL ACTIVITY - DECEMBER 31, 1972

Major Professional Activity	Practi in Loui	siana	Practici of Loui	isiana	Total	
Patient Care	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cen
Office Based	2262	40.1	3379	59.9	5641	100.0
Hospital BasedINT	0	0.0	0	0.0	0	0.0
Hospital BasedRES	1**	100.0	0	0.0	1	100.0
Hospital BasedDR	127	34.5	241	65.5	368	100.0
Other Professional Activities						
Med. Teaching	53	48.6	56	51.4	109	100.0
Administration	56	31.6	121	68.4	177	100.0
Research	26	36.6	45	63.4	71	100.0
Other	16	32.7	33	67.3	49	100.0
Inactive	127	32.9	259	67.1	386	100.0
Unclassified	86	45.5	103	54.5	189	100.0
Temporary Foreign	0	0.0	64	100.0	64	100.0
Address Unknown	0	0.0	- 30	100.0	30	100.0
Totals	2754	38.9	4331	61.1	7085	100.0
					<u> </u>	



^{*} Excludes Interns, Residents

^{**} Recorded information for this individual was inconsistent

TABLE 12

PEST COPY AVAILABLE

DISTRIBUTION OF NON-FEDERAL PHYSICIANS* IN LOUISIANA, BY STATE

OF GRADUATION AND MAJOR PROFESSIONAL ACTIVITY - DECEMBER 31, 1972

Major Professional	Louisiana Graduates		Othe Gradua		Total Physicians		
Activity	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cent	
Patient Care							
Office Based	2263	76.5	702	23.7	2965	100.0	
Hospital BasedINT	0	0.0	0	0.0	0	0.0	
Hospital BasedRES	1	100.0	0	0.0	1	100.0	
Hospital BasedDR	127	46.5	146	53.5	273	100.0	
Other Professional Activities							
Med. Teaching	53	39.8	80	60.2	133	100.0	
administration	56	61.5	35	38.5	91	100.0	
Research	26	29.2	63	70.8	89	100.0	
Other	16	43.2	21	56.8	37	100.0	
Inactive	127	64.8	69	35.2	196	100.0	
Not Classified	86	56.2	67	43.8	153	100.0	
Totals	2755	64.8	1183	27.8	3938	100.0	



^{*} Excludes Interns, Residents

major explanation would seem to be an increased attractiveness of Louisiana to both Louisiana and other graduates. Although the total number of other graduates (Table 9) decreases in the time period 1965-1969, it must be remembered that a large percentage of these physicians are still involved in their postgraduate professional training. This factor should be remembered when interpreting many of the following tables.

Table 11, "Distribution of Non-Federal Physicians Graduated from Louisiana by State of Practice and Professional Activity, December 31, 1972," illustrates that 84.8% of physicians graduated from Louisiana medical schools are actively involved in patient The percentage is similar for those practicing in and out If Table 12, "Distribution of Non-Federal Physicians in of state. Louisiana by State of Graduation and Major Professional Activity, December 31, 1972" is examined, it can be seen that 82.2% of the physicians practicing in Louisiana are actively involved in patient care. Only 71.7% of the physicians attracted to Louisiana from medical schools outside of the state are actively involved in patient care. The major non-patient care activities that attract a greater percentage of graduates from other schools are medical teaching and medical research. This indicates that Louisiana medical schools are graduating an extremely high percentage of physicians interested in active patient care. If inactive physicians are removed from the computations, the percentage involved in direct patient care would rise to 91%.

It can be seen from Table 13, "Distribution of Non-Federal Physicians Graduated from Louisiana State Institutions by Primary Specialty and State of Practice," that of the 7,085 graduates from



TABLE 13

BEST COPY AVAILABLE

DISTRIBUTION OF NON-FEDERAL PHYSICIANS GRADUATED FROM LOUISIANA STATE

INSTITUTIONS BY PRIMARY SPECIALTY AND STATE OF PRACTICE - DECEMBER 31, 1972*

(1 of 2)

	<u> </u>				<u> </u>	
Major Specialty Groups		icing isiana		ing Out isiana	Total Nor Physi	
	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cen
General Practice	678	43.4	883	56.6	1561	22.0
Medical Specialties	576	39.5	881	60.5	1457	20.6
Surgical Specialties	928	37.5	1547	62.5	2475	34.9
Other Specialties	572	35.9	1020	64.1	1592	22.5
Total	2754	38.9	4331	61.1	7085	100.0
Medical Specialties						
Allergy	15	2.6	31	3.5	46	3.2
Cardiovascular Disease	41	7.1	81	9.2	122	8.4
Dermatology	51	8.9	71	8.1	122	8.4
astroenterology	16	2.8	15	1.7	31	2.1
Internal Medicine	259	45.0	394	44.7	6=3	44.8
Pediatrics	169	29.3	261	29.6	430	29.5
Pediatric Allergy	5	0.9	6	0.7	11	0.8
Pediatric Cardiology	4	0.7	2	0.2	6	0.4
Pulmonary Disease	16	2.8	20	2.3	36	2.4
Total	576	100.0	881	100.0	1457	100.0
Per Cents	39	9.5		50.5	100	.0
Surgical Specialties						
General Surgery	276	29.7	431	27.9	707	28.6
Neurological Surgery	14	1.5	40	2.6	54	2.2
Obstetrics and Gynecology	239	25.8	393	25.4	632	25.5
hthalmology	116	12.5	194	12.5	310	12.5
Orthopedic Surgery	103	11.1	151	9.8	254	10.3
Otolaryngology	74	8.0	132	8.5	206	8.3

TABLE 13

BEST COPY AVA.

DISTRIBUTION OF NON-FEDERAL PHYSICIANS GRADUATED FROM LOUISIANA STATE INSTITUTIONS BY PRIMARY SPECIALTY AND STATE OF PRACTICE - DECEMBER 31, 1972 *

(2 of 2)

		(2 of 2)				
Major Specialty Groups	Practi in Loui		Practic of Lou	_	Total Nor Physi	n-Federal cians
	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cer
Plastic Surgery	9	0.9	20	1.3	29	1.2
Colon and Rectal Surgery	10	1.1	20	1.3	30	1.2
Thoracic Surgery	13	1.4	24	1.6	37	1.5
Urology	74	8.0	142	9.2	216	8.7
Total	928	100.0	1547	100.0	2475	100.0
Per Cents	3	7.5	62.5		100	.0
Other Specialties						
Aerospace Medicine	1	0.2	5	0.5	0.5 6	
Anesthesiology	69	12.1	111	10.9	180	11.3
hild Psychiatry	5	0.9	21	2.1	26	1.6
Diagnostic Radiology	9	1.6	26	2.5	35	2.2
Forensic Pathology	1	0.2	2	0.2	3	0.2
Neurology	12	2.1	18	1.8	30	1.9
Occupational Medicine	19	3.3	39	3.8	58	3.6
Psychiatry	136	23.8	227	22.3	363	22.8
Pathology	71	12.4	142	13.9	213	13.4
Physical Medicine and Rehab	2	0.3	9	8.8	11	6.9
General Preventive Medicine	5	0.9	10	1.0	15	9.4
Public Health	32	5.6	72	7.1	104	6.5
Radiology	90	15.7	145	14.2	235	14.8
Therapeutic Radiology	4	0.7	7	0.7	11	0.7
Other Specialty	68	11.9	147	14.4	215	13.5
unspecified	48	8.4	39	3.8	87	5.5
Tg+al	572		1020	100.0	1592	100.0
Cents	35	i.9	64.	1	100	.0

Louisiana medical schools who are now practicing medicine, 1,561 (22%) are general practitioners, 1,457 (20.6%) are in the medical specialties, 2,475 (34.9%) are in surgical specialties and 1.592 (22.5%) are in other specialties. These percentages are similar whether the graduates remain or leave Louisiana, possibly with the exception of general practice. The medical specialties include allergy, cardiovascular diseases, dermatology, gastroenterology, internal medicine, pediatrics, pediatric allergies, pediatric cardiology and pulmonary diseases. The largest percent of graduates from Louisiana medical schools in the medical specialties are involved in internal medicine and pediatrics. Surgical specialties include general surgery, neurological surgery, obstetrics and gynecology, ophthamology, orthopedic surgery, otolaryngology, plastic surgery, colon and rectal surgery, thoracic surgery and urology. In the surgical category, the largest number of graduates are involved in general surgery and obstetrics and gynecology. Other specialists include aerospace medicine, anesthesiology, child psychiatry, diagnostic radiology, forensic pathology, neurology, occupational medicine, psychiatry, pathology, physical medicine, and rehabilitation, general preventive medicine, public health, radiology and therapeutic radiology and other specialties. largest percent of physicians in other specialties are involved in psychiatry, radiology and pathology.

It can be seen from the table that Louisiana maintains 43.4% of its graduating general practitioners, 39.5% of its graduated medical specialists, 37.5% of its surgical specialists and 35.9% of its other specialists.

Table 14, "Distribution of Non-Federal Louisiana Physicians



TABLE 14

BEST COPY AVAILABLE

DISTRIBUTION OF NON-FEDERAL LOUISIANA PHYSICIANS BY PRIMARY SPECIALTY DECEMBER 31, 1972*

				•	(1 of 2)	
Major Specialty Groups	1		Oth Gradu	=	Total Non Physic	
	679 80.7 576 66.6 928 74.2 572 58.2 2755 70.0 15 2.6 41 7.1 51 8.9 16 2.8 259 45.0 169 29.3 5 0.9 4 0.7 16 2.8 576 100.0 66.6 276 29.7 14 1.5 20logy 239 25.8 113 12.5 102 11.0	Frequency	Per Cent	Frequency	Per Cen	
General Practice	679	80.7	162	19.3	841	21.4
Medical Specialties	576	66.6	289	33.4	865	22.0
Surgical Specialties	928	74.2	322	25.8	1250	31.7
Other Specialties	572	58.2	410	41.8	982	24.9
Total	2755	70.0	1183	30.0	3938	100.0
Medical Specialties						
Allergy	15	2.6	6	2.1	21	2.4
Cardiovascular Disease	41	7.1	25	8.7	66	7.6
Dermatology	51	8.9	9	3.1	60	6.9
Sastroenterology	16	2.8	8	2.8	24	2.8
Internal Medicine	259	45.0	150	51.9	409	47.3
Pediatrics	169	29.3	75	26.0	244	28.2
Pediatric Allergy	5	0.9	5	1.7	10	1.2
Pediatric Cardiology	4	0.7	3	1.0	7	0.8
Pulmonary Disease	16	2.8	8	2.8	24	2.8
Total	576	100.0	289	100.0	865	100.0
Per Cents	66	.6	33.4	,	100.	.0
Surgical Specialties						
General Surgery	276	29.7	97	30.1	373	29.8
Neurological Surgery	14	1.5	14	4.4	28	2.2
Obstetrics and Gynecology	239	25.8	63	19.6	302	24.2
Ophthalmology	110	12.5	37	11.5	153	12.2
Orthopedic Surgery	102	11.0	41	12.8	144	11.5
Otolaryngology	74	8.0	21	6.5	95	7.6

⁻⁴²⁻

TABLE 14

BEST COPY AVAILABLE

DISTRIBUTION OF NON-FEDERAL LOUISIANA PHYSICIANS BY PRIMARY SPECIALTY DECEMBER 31, 1972 *

			<u> </u>	····	(2 of	2)	
Major Specialty Groups	Louis Grad i		Oti Gradu	· -	Total Non Physi	-Federal cians	
	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Ce	
Plastic Surgery	9	1.0	14	4.3	23	1.8	
Colon and Rectal Surgery	10	1.1	3	0.9	13	1.0	
Thoracic Surgery	13	1.4	9	2.8	22	1.8	
Urology	74	8.0	23	7.1	97	7.8	
Total	928	100.0	322	100.0	1250	100.0	
Per Cents	74.2	<u> </u>	25.8		100.0		
Other Specialties				-			
Aerospace Medicine	1	0.2	3	0.7	4	0.4	
Anesthesiology	69	12.1	41	10.0	110	11.2	
Child Psychiatry	5	0.9	7	1.7	12	1.2	
Diagnostic Radiology	9	1.6	10	2.4	119	12.1	
Forensic Pathology	1	0.2	2	0.5	3	0.3	
Neurology	12	2.1	18	4.4	30	3.1	
Occupational Medicine	19	3.3	14	3.4	33	3.4	
Psychiatry	136	23.8	91	22.2	227	23.1	
Pathology	71	12.4	61	14.9	132	13.4	
Physical Medicine and Rehab	2	0.3	2	0.5	4	0.4	
General Preventive Medicine	5	0.9	4	1.0	9	0.9	
Public Health	32	5.6	18	4.4	50	5.1	
Radiology	90	15.7	59	14.4	149	15.2	
Therapeutic Radiology	4	0.7	2	0.5	6	0.6	
Other Specialty	68	11.9	58	14.1	126	12.8	
Unspecified	48	8.4	20	4.9	68	6.9	
Total	572	100.0	410	100.0	982	100.6	
Richard Cents	58.	2	41.	3	100	.0	

113

Witness to the same and Shoulder

BEST COPY AVAILABLE

TABLE 15
DISTRIBUTION OF MUN-FEDERAL PHYSICIANS IN LOWERINS BY MAJOS SPECIALITY GROUP
STATE OF GRADANION AND YEAR OF GRADANIOA - DUCEMER 31, 1972

		ij				-: <u>`</u>					=			
	Total	7.1	* 2	5.5	12.0	12.6	7"	5.53	15.0	15.4	9.3	2.5		163.0
	+-	Professory For Comp.	53	202	713	495	6.71	263	108	er3	. 361	6		1936
	Graduates Out of Louisians	Prequency 2:7 Cent	36.4	4.0.8	6,1,0	4.5.9	44.3	45.6	. 1.10	33.9	4.8.4	34.1	9. 11,	
CIALTIES	Crales of Lou	President.	11	20	*	45	8	53	×	*	4,5	2	614	22
OTION SPECIALTIES	Graduates Louisiane	Per Cent	3.5	53.2	56.0	31.1	51.7	×.	62.3	1.19	56.6	15.9	59.2	2943
	Graduates of Louistans	Prequency	*	2	*	*		11	*	3	3	\$	572	
	Gradustes Out of Louistens	Yer Cent	43.7	31.8	13.0	15.2	29.8	18.9	21.5	30.6	33.3	23.3		
PECTALTERS	Credus of Lov	Frequency	•	77	8	8	8	2	\$	2	£	•	22	
SUNCICAL SPECIALTERS	setes lotens	Par Cent	\$6.3	64.2	15.0	60.0	70.3	1.1	10.1	9.6 3	1.99	66.7	14.1	1250
	Cradustus ef Louisians	Freq wary	•	\$7	11.8	601	92	113	153	153	92	63	2	
	Gisduntos et Loufsins	Prequency Por Cent	28.6	18.9	36.3	23.0	27.4	¥.7	26.3	47.4	9.09	9'09	33.4	
CIALTIES	Graduates et Louisian	Prequency	•	•	z	żć	ī	17	*	. 3	66.	•	681	593
HEDICAL SPECIALTIES	aces Lefana	Frequency Pe. Cont	11.4	11	63.6	17.0	72.6	63.3	11.1	32.6	39.4	20.0	9.99	4
	Graduaces of Louisians	Leedmon. b	2	ጸ	\$	*	=======================================	22	101	2	23	~	Š	
	ra Out sime	Per Cunt	40.0	¥.0	29.0	14.3	16.4	11.2	12.3	22.1	17.5	36.4	19.3	
MOTICE	Craduates Gue	Freductes	•	2	8	13	51	3	±	7	01	4	79 1 .	
CFRITAL PRACTICE	otes of me	3r Cont	9.09	65.0	10.1	1.53	31.6	£3.8	47.7	17.9	1.54	9.13	£. 61	173
	Cridictes of Lufelms	Freeman y 22 Cont	•	33	£	102	z	17.3	101	5	•	~	675	
	Year of	Gradu it for	6:61 m dg	320 - 1923	:916 - 131 9	. 9%0 - 1 9%6	6501 - 556	980 - 1756	\$25 - 1939	2960 - 1962	627 - 596	913 & after	stal fre- winty and is find in	

by Primary Specialties, December 31, 1972" illustrates that 80.7% of the state's general practitioners, 66.6% of its medical specialists, 74.2% of its surgical specialists and 58.2% of its other specialists were educated in Louisiana medical schools. A total of 70.0% of the physicians practicing in Louisiana were educated in Louisiana medical schools. Therefore, the medical schools in Louisiana provide the state with a larger percentage of its general practitioners and surgical specialists. A larger percentage of medical specialists and other specialists come to Louisiana from outside of the state. When this table is then compared with Table 15, "Distribution of Non-Federal Physicians in Louisiana by Major Specialty Group, State of Graduation and Year of Graduation," it can be seen that the total number of general practitioners has been steadily decreasing since the period of 1950-1954. If, in fact, this is actually a permanent trend, it will become necessary for the state to either attract more GP's from outside of the state or to increase the number of general practitioners trained within the state or both. The surgical specialties have shown a steady increase through 1960-1964. This group of specialties is the one in which Louisiana equals or surpasses national physician to patient population ratios. This table also indicates that for the period 1960-1964 only 52.6% of Louisiana's medical specialists were graduated from Louisiana medical schools. This is even more significant when compared to the 1955-1959 figure of 73.7%. Although the total number of medical specialists entering practice in Louisiana is similar for the two time periods, Louisiana has become dependent upon attracting specialists from other states to maintain this number. When this area is examined in Table 16, "Distribution of



BEST COPY AVAILABLE

TADES 16 DISTRIBUTION OF THE PEDERAL PHYSICIANS GRADUATED PROS LEWISSING STATE THESTERING BY PALON SPICIALTY UNEAP, STATE OF PRICEICE AND YEAR OF GRADUATION - DECEMBER 31, 1973

	2 21	;	<u> </u>	<u>.</u>	.	(63)	653	1633	1563	920		123	109\$
RS Freelelin Vie	Frequency Pro Core		• • • • • • • • • • • • • • • • • • •	• 1	£ :	74.3	6.1.9	1.79	64.3	35.6		; ;;	
Oliuz Speciálitiks Peocel	Frage n.	\$? =	2 ;	77	2	<u> 1</u> 20	16.5	8	[13	. 3	ះ គ	0701
Othur SP	Frequency for Cont	6.17	7 40			1.67	31.0	32.9	35.7	43.4	47.7		35.9
Proce	Preductry	ï	: 5		2	? ;	19	71	2	3	9	* *	572
log Out	Proquency for Cent	65.4	1.93					\$0.4	59.0	1.09	×.×	54.5	
MaiAltra Practicing Out	Freducucy	2	. 8		288		5	191	121	238	. 2	2	1981
SUBCICAL SPICIALTIES letys	Per Cent	3.6	33.3	13.1	32.6			•:•	61.0	39.9	45.2	45.5	37.3
Sus Ereticing	Frequency Par Cent	•	43	118	5	6		671	150	153	2	9	928
TFS Proceeding Out of Louisians	y Por Cent	4.5.4	53.8	3	61.2	61.9	61.9		59.4	63.7	50.9	91.9	60,3
HIGGE SPECIALIES ING. Proct	Frequency Por	•	3\$	101	13,	53	21	;	.	120	2,	•	163
Proticing. In Louisiana	Frequency for Cent	55.6	46.2	35.9	36.8	20.1	38.1		9.00	36.8	1.64	19.2	39.3
Fract In Lou	Frequency	2	8	63	2	82	=	į	<u>5</u>	2	2	~	316
ng Out plans	Per Cent	76.5	69.8	67.3	29.7	1.09	53.1	•	•	6.04	41.0	41.7	34.6
MACTICE Procifeing Out of Contains	Frequency for Cent	35	12	175	23	101	162	•	3	*	~	*	
clas tradition of the ference of the	Per Cent	23.5	30.8	32.7	40.1	39.9	46.9	•		39.1	57,0	38.3	43.4
C. Practicing	Fredicting fer Gent	•	2	\$	701	×	14.1	5	}	5	55	~	673

Vest of Graduation

Vo to 1119

1920 - 1929

1930 - 1939

1950 - 1950

1950 - 1956

1950 - 1956

1951 - 1959

1953 - 1959

1951 - 1950

1953 - 1950

1954 - 1555

1955 - 1956

1955 - 1956

1956 - 1956

1957 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

1958 - 1956

 The state of the s

Non-Federal Physicians Graduated from Louisiana State Institutions by Najor Specialty Group, State of Practice and Year of Graduation, December 31, 1972," it can be seen that the total number of graduates in medical specialties decreased sharply during the period 1960-1964 when compared with 1955-1959. Since there appears to be a continuing need for more physicians in the area of primary care, e.g., general internal medicine, the trend for fewer Louisiana graduates to enter into this specialty area should be overcome.

It is also interesting to note when examining this table that the number of Louisiana graduates entering into general practice have been sharply decreasing since the period 1950-1954. Fortunately, the percentage of those remaining in Louisiana has been increasing, however, this trend has not been significant enough to make up for the smaller number of general practitioners graduating from Louisiana medical colleges. Again this points to the need for stimulating more medical students to enter into a career of primary care practice.



Description and Interpretation of the Data Gathered from the Interviews of Senior Medical Students, Interns, First Year Residents, Final Year Residents, and all Family Practice Residents in Louisiana

The data from the interviews was gathered and arranged into 19 tables. For the most part, the data gathered from medical student interviews were kept separate from the data gathered on interns and residents. All data will be adjusted according to the methods described in the methodology section of this report. Before proceeding, it is necessary to make a few comments on the Tulane sample. As one notices in Table 17, 20 of 23 students interviewed from Tulane were classified as out-of-state. This means that their home towns were located as those that existed in another state. There were 3 students classified as in-state. These figures correspond to the 13% figure given by Tulane as the number of in-state students enrolled in the 1973 class. It must also be noted that Tulane, unlike LSU in New Orleans and LSU in Shreveport, is a regional school that draws its student population from all over the United States, and especially from southern areas of the country.

Table 17, Future Training Location of Senior Medical Students by Medical School, shows where senior medical students plan to pursue their internship or residency training once they have graduated from medical school. Of the 152 students classified as in-state, 80 (52.6%) were remaining for training, 64 (42.1%) were leaving, while 8 (5.3%) were undecided. Of the 91 out-state students, only 13 (14.3%) were planning to remain for training while 73 (80.2%) were planning to leave, and 5 (5.5%) had not yet decided. This table becomes important when examined in the light of information



TABLE 17

FUTURE TRAINING LOCATION OF SENIOR MEDICAL STUDENTS

BY MEDICAL SCHOOL

Undecided	æ	82	0	H	0		7	0	4	13	œ	5
Number of Graduates Leaving	52	44	8	13	12		72	∞	79	137	99	73
Number of Graduates Remaining	79	99		13	12		16	7	12	. 93	80	13
Adjusted Total	124	116	: : : : : : : : : : : : : : : : : : :	27	24		92	12	80	243	152	91
Non Response		c	7		ന		-	12			ŗ	1/
Total Number Interviewed	31	29	2	27	24	()	23	m	20	81	56	25
School	LSU New Orleans	Instate	Outstate	LSU Shreveport	Instate	Outstate	Tulanc	Instate	Outstate	Total	Instate	Outstate



published in much of the literature, including the report to the Ohio Board of Regents on Physician Demography in Ohio, 1971. It states that the most important factor of where a physician will locate is the correlation between location of residency and location of practice. A corresponding study by Tuxill for the Rochester Regional Hospital Council shows that the largest number of physicians decided on their practice location during internship and residency training.

In Table 18, Future Practice Location of Senior Medical Students by Training Location and by Medical School, we find that of the 93 students remaining for training in Louisiana, 48 (52.7%) are planning to remain for practice, 9 (9.9%) are planning to leave for practice, and 36 (39.6%) are undecided. Of the 13 students who are classified as out-state in this group remaining for training, none were planning on remaining for practice, 8 were planning on leaving, and 5 were undecided. It must be noted that this number is too small to use for drawing inference. Of the 137 students leaving for training, 66 (48.2%) were planning to leave the state for practice, 28 (20.4%) were planning to remain in the state for practice and 43 (31.4%) had not yet decided whether they would return to Louisiana for practice or practice elsewhere. It must be noted here that all of the students planning to remain for practice were classified as in-state students and that none of the out-state students in either of the groups remaining for training or leaving for training are at this time planning to practice in Louisiana. In addition, 52.6% of the in-state students as of the time of the interview, had decided that they would remain in Louisiana for practice.



TA. . 18

FUTURE PRACTICE LOCATION OF SENIOR MEDICAL STUDENTS
BY TRAINING LOCATION AND BY MEDICAL SCHOOL

	LSU New Instate	LSU New Orleans ostate Outstate	LSU Shi Instate	Shreveport :e Outstate	Tu Instate	Tulane :e Outstate	To Instate	Total e Outstate
Remaining for Training	99	0	12	П	7	12	80	13
Leaving for Practice	0	0	-	0	0	co	-	œ
Remaining for Practice	36	0	æ	0	4	0	48	0
Undecided	28	0	e		0	7	31	'n
Leaving for Training	77	œ	12	1	œ	64	64	73
Leaving for Practice	12	0	H	H	0	52	13	53
Returning for Practice	20	0	7	0	7	0	28	0
Undecided	12	œ	7	0	4	12	23	20
Undecided on Training	&	0	0	H	0	4	ω	'n
Leaving for Practice	0	0	0	0	0	4	0	7
Remaining for Practice	7	0	0	0	0	0	7	0
Undecided	4	0	0	1	0	0	4	1
Total	911	ω	54	m	12	80	152	91
Leaving for Practice	12	0	7	г г	Ö	79	14	65
Remaining for Practice	09	0	12	.0	φ	0	80	0
Undecided	777	80	10	2	4	16	58	26

Table 19 is entitled Influence of Medical Schools in Decisions of Senior Medical Students Regarding General Practice in Areas of Family Practice, Pediatrics and Internal Medicine by Future Specialty." The table was developed to determine what type of influence the medical schools themselves had on the decision of the students regarding the three primary care fields of family practice, pediatrics, and internal medicine. The students were asked to respond as to whether the medical school influence was favorable, unfavorable or no influence. It is found that in all three specialties, the overall influence was favorable (58% favorable for family practice, 58% favorable for pediatrics and 61% favorable for internal medicine). Overall, 59% felt that they were favorably influenced by the medical schools toward the three primary care fields.

This table is even more interesting when compared to Table 20 Future Practice Locations for Senior Medical Students by Training Location and by Specialty. In this table, pediatrics was included within other medical specialties. Here it is discovered that 20 (80%) of the 25 medical students interested in family practice are leaving the state for training and only 5 of them are presently planning to return for practice. Overall, 10 (40%) of the 25 family practice residents are planning to return, 8 (32%) are planning to leave, and 7 (28%) are undecided. Only 9 (18%) out of the 50 future internal medicine residents are planning to return, 21 (42%) are leaving for practice and 20 (40%) have not decided. The majority of the 31 students entering other medical specialties were either planning to leave Louisiana for practice or were undecided, with only 9 (29.0%) students planning to practice in the state. This indicates that while Louisiana medical colleges present an overall tavorable

TABLE 19

The second secon

INFLUENCE OF NEDICAL SCHOOLS IN DECISIONS OF SENIOR MEDICAL STUDENTS REGARDING GENERAL PRACTICE IN AREAS OF FAMILY PRACTICE, PEDIATRICS AND INTERNAL MEDICINE BY FUTURE SPECIALTY

	FAMILY	PRACTICE	ICE	13d	PEDIATRICS	ઇ		infernal Medicine		TC	TOTAL FOR PRIMARY CAF	\overline{z}
	Favorable	Unfavorable	No Influence	Favorable	Unfavorable	No Influence	Favorable	9 l ds r ovalnU	No Influence	Favorable	Unfavorable	No Influence
Family Practice	12	гЛ	σ,	12		တ	12	'n	σ,	36	15	27
Internal Medicine	30	'n	14	34	6	9	42	 4	9	106	15	26
Pediatrics	17	0	-3	17	0	4	17	0	4	51	0	12
Surgery	∞	4	7	œ	4	7	4	80	7	20	16	9
Other Surgical Specialties	18	13	10	18	13	10	22	9	10	58	35	30
Other Medical Specialties	0	10	0	0	10	0	0	10	0	0	30	0
Other	25	'n	ω	29	ĸ	4	25	13	0	79	23	12
Undecided	31	12	H	23	20	1	27	16	1	71	48	3
Total	141	5,	48	141	99	36	149	62	32	421	182	116
	28%	22%	19%	28%	27%	15%	, 61%	26%	13%	26%	25%	16%

BEST COPY AVAILABLE

TABLE 20

FUTURE PRACTICE LOCATION OF SENIOR MEDICAL STUDENTS

BY TRAINING LOCATION AND BY SPECIALTY

Tota1	93	Q	48	36	137	99	28	43	13	4	4	ار.	243	6/	80	3 8
ĭI					, 1								(1			
Undecided Specialty	14	7	9	7	30	12	2	13	0	0	0	0	44	16	11	17
nn Sp																
Other Specialty	16	7	∞	4	22	œ	10	7	0	0	0	0	38	12	18	æ
Other Surgical Specialty	24	0	15	ø,	17	0	œ	6	0	0	0	0	41	0	23	18
Other Medical Specialty	Q	0	'n	4	14	12	0	2	æ	0	4	4	31	12	σ	10
Surgery	4	0	0	4	10	10	0	0	0	0	0	0	14	10	0	4
Medicine	21	H	6	11	24	16	0	φ	'n	7	0	r-4	20	21	60	20
Family Practice	ĸ	0	ĸ	0	20	æ	ĸ٦	7	0	0	0	0	25	80	10	7
	Remaining for Training	Leaving for Practice	Remaining for Practice	Undecided	Leaving for Training	Leaving for Practice	Returning for Practice	Undecided	Undecided on Training	Leaving for Practice	Remaining for Practice	Undecided	Total	Leaving for Practice	Returning/Remaining	Undecided

influence on medical students towards primary care, the trainees

Louisiana.

The largest return rate exists in "other surgical specialties". When this table is examined in light of shortages by specialty in Louisiana, it is found that those specialties listed as "other surgical specialties" are those areas of medicine in which Louisiana comes closest to the national and group averages.

do not perceive a favorable picture of primary care practice in

Examination of those groups remaining for training and leaving for training illustrates another interesting aspect of Table 20. Of the 93 students remaining for training, 36 (38.7%) are undecided as to whether they will practice in Louisiana; 43 (31.4%) of the 137 students leaving for training are also undecided on practice location. It seems that those 36 students remaining in Louisiana and undecided on practice location are in the most important and most available group to influence towards a practice located in Louisiana. The second most important group would be the 43 Louisiana trained medical students who are leaving for postgraduate training. While still undecided in terms of practice location, the factors that these two undecided groups find attractive in practice locations should be examined and compared with those leaving for practice and those remaining for practice.

First, however, the factors which have influenced where a student will train must be scrutinized. Each student interviewed was asked to rank the following factors as a: 1) major influence, 2) contributing influence, or 3) minor influence or no influence at all, regarding the location of their future postgraduate medical training: REPUTATION OF SPECIALTY PROGRAM OR DIRECTOR, PRESTIGE OF INSTITUTION, IMPRESSED WITH STAFF, IMPRESSED WITH FACILITIES.



FACTORS INFLUENCING THE DECISION OF FUTURE TRAINING LOCATION FOR SENIOR MEDICAL STUDENTS, BY MEDICAL SCHOOL TABLE 21

— серес	320	20	40		240	40	240		120	0	0		630	8	28 <u>0</u>
Total # With Children	16	4	0		91	4	8		0	0	0		32		1 77 77
beirzeM # lecoT	70	11	4		75	11	44		4	0	4				160
Good Education For Children	09	30	0		100	15	60		0	0	0				265
Did Not Wish to Nove Family	100	55	09		0	0	20		40	0	0		140	55	275
Job Opportunities For Wife	180	09	40		100	35	38		0	0	40		280	95	180 555
Spouse Working Here	100	55	40		40	0	0		0	0	0		140	3 5	235
Change of Scenery	200	ŀΛ	09		380	75	400		20	5	٥		009	82	460
Femily Ties	200	30	0		09	01	200	•	40	0	0		300		200 200
Other Economic Reasons	80	65	40		09	70	40		0	0	0		140	82	30 80
Salary	120	15	0		380	20	260		20	Ŋ	0		520	8	260
Cultural Resources	24C	40	80		160	75	260		20	0	0		420	115	340
Recreational Facilities	220	55	07		300	. 69	360		20	0	0		240	120	1060
Ceographic Location	480	120	100		440	110	520		09	50	0		980	235	620 1835 1
Impressed With Facilities	300	09	120		320	125	7460		09	5	0		680	190	580
Impressed With Staff	480	120	100		400	100	400		09	S	0		940	225	500 1665 1
Prestige of Institution	400	55	100		200	65	400		9	0	40		099	120	540 1320
Reputation of Specialty	380	80	120		280	70	240		09	0	40			150	1000
(beizulbA)									80	 4	4				
Total Interviewed	. 64		16			13	3 72	•					124	1 27	243
beunivraint intof		13	4		13	13	18		61		1		31	27	23
	Remaining for Training LSU New Orleans	LSU Shreveport	Tulane.	Leaving for Training	LSU New Orleans	LSU Shreveport	Tulane	Undectided	LSU New Orleans	LSU Shreveport	Tulane	Totals	LSU New Orleans	LSU Shreveport	Tulane
	Æ			Ϊ́Ι				อีโ			1	티			-56-

BEST COPY AVAILABLE TABLE 22 RANKED FACTORS WHICH INFLUENCED THE DECISION OF SENIOR MEDICAL STUDENTS ON TRAINING LOCATION, BY TRAINING LOCATION

	•	Potal		naining Training		eaving Training
	Rank	Per Cent	Rank	Per Cent	Rank	Per Cent
Geographic Location	1	75.5%	1-2	75.3%	1	78.1%
Impressed With Staff	2	68.5%	1-2	75.3%	2-3	65.7%
Reputation of Specialty Program or Director	3	64.6%	3-4	62.4%	4	65.0%
Impressed With Facilities	4	59.7%	3-4	62.4%	2-3	65.7%
Prestige of Institution	5	54.3%	5	59.7%	8	48.5%
Change of Scenery	6	47.1%	9	28.5%	5	62.4%
Recreation	7	43.6%	7	33.9%	6	52.9%
Cultural Resources	8	36.0%	6	38.7%	9	36.1%
Salary	9	35.8%	14	14.5%	7	51.8%
Job Opportunities for Spouse*	10	22.8%	8	30.1%	11	17.2%
Family Ties	11	22.2%	10	24.7%	10	19.7%
Other Economic Reasons	12	12.3%	13	19.9%	13	8.8%
Did Not Wish to Move Family	13	11.3%	11	23.1%	15	1.5%
Good Chacation for Children	14	10.9%	15	9.7%	12	12.8%
ure Working Nero	15	9.7%	12	21.07	14	2.9%

^{*} While Job Opportunities for Spouce are adjusted for those students who are married, The percentage was found to be 50.9% for those remaining versus 23.7% for those ERIC aving.

-57-

GEOGRAPHIC LOCATION, RECREATION FACILITIES, CULTURAL RESOURCES, SALARY, OTHER ECONOMIC REASONS, FAMILY TIES, CHANGE OF SCENERY, SPOUSE WORKING HERE, JOB OPPORTUNITIES FOR WIFE, DID NOT WISH TO MOVE FAMILY, and GOOD EDUCATION FOR CHILDREN. Major factors were assigned a numerical value of 10, contributing factors were assigned a value of 5 and minor or no influence factors were assigned a value of 0. The results are given in Table 21 and Table 22. Table 21, Factors Influencing the Decision of Future Training Location for Senior Medical Students by Medical School, gives the total score of each factor for those remaining for training, leaving for training and undecided for training location by all three Louisiana medical schools. Table 22, Ranked Factors Which Influenced the Decision of Senior Medical Students on Training Location by Training Location, ranks the 15 factors, 1 through 15, and gives the percent score out of a possible perfect 100%R. The factors are given in the order in which they are ranked in the total column of Table 21. The most important factor influencing training location are GEOGRAPHIC LOCATION. IMPRESSED WITH STAFF, REPUTATION OF SPECIALTY PROGRAM OR DIRECTOR, IMPRESSED WITH FACILITIES, and PRESTIGE OF THE INSTITUTION. It can be seen that both CHANGE OF SCENERY and RECREATIONAL FACILITIES are more important for those leaving for training as is SALARY. JOB OPPORTUNITIES FOR SPOUSE is more important for those remaining for training. When JOB OPPORTUNITIES FOR SPOUSE are adjusted to those students who are married, it is found that it is rated 50.9%R for those who are remaining for training and 23.7% for those who are leaving for training. This indicates that it is more important for those students remaining in Louisiana for training to have employed spouses



TALL 23
GACTORS INFLUENCING THE DECISION OF FUTURE FRACTICE LOCATION FOR SENIOR MEDICAL STUDENTS
BY FUTURE PRACTICE LOCATION AND MEDICAL SCHOOL ATTENDED

	Ì							£	BEST	CCPY	/ AV	AILAH	LŁ			<u>-</u> ·
Availability of Allied Health Tersonnel	0,7	70	0	0	10	0	10	0	٥	0	0	0	50	640	91	•
Favorable Professional Climate	113	80	30	0	8	70	10	65	130	120	10	0	330	240	50	07
Meed for Specialty in Community	240	200	07	0	200	0	0	200	320	200	40	28 28	760	007	80	260
Favorable Hospital Affiliation	130	120	10	0	8	0	91	80	160	120	04	0	380	240	09	8
Cultural Resources	415	280	55	80	390	20	91	360	510	340	20	100	1315	079	135	88
Financial Opportunities	555	400	75	8	290	80	10	200	079	460	80	100	1485	076	165	380
Most Favorable Geographic Area of Location	565	400	85	80	545	100	25	420	650	360	8	200	1760	860	200	200
Desired Community Size	675	200	95	8	595	120	15	760	730	460	110	160	2000	1080	220	200
Favorable Climate	545	400	85	09	420	120	20	280	635	700	95	140	1600	920	200	480
Desire to Remain in Academia	420	320	9	40	335	80	15	24.0	370	160	110	100	1125	260	185	380
Attraction of Locution sauge rol	395	300	55	40	380	8	20	280	430	200	90	140	1205	580	165	460
Educational Opportuni- ties for Children	545	400	65	80	445	100	. 25	320	650	400	8	160	1640	606	180	260
Healthy Climate to Raise Children	099	480	100	80	545	120	25	400	670	460	90	130	1875	1000	215	099
Non-professional Family Ties	335	200	55	80	240	0	0	240	215	120	35	09	790	320	8	380
Joining Practice of Friend or Pemily	240	140	70	80	145	0	45	140	150	140	10	0	535	230	33	220
Recreational Activities	009	055	80	80	360	40	20	300	585	340	83	160	1545	820	185	540
Have Children	18	12	7	4	ο,	4	-	4	13	12	~	•	04	82	4	ω
polazel	52	40	80	4	55	12	ო	940	65	36	6	4	156	83	20	48
And Total	80	90	12	∞	79	12	m	79	ಕ	22	12	8	243	124	27	92
Total Interviewed	29	15	12	6	22	m	М	16	33	13	12	5	81	31	27	23
•	Remaining for Protice	ISU New Orleans	LSU Shreveport	Tulana	Leaving for Practice	LSU her orleans	ISU Shreveport	Tulane	Undreided	LSU New Orleans	LSU Shreveport	Tulane	Totals	1SU Now Orleans	IZC Sprevegar	Tulane



than those leaving Louisiana for training. Probably this result is influenced by Louisiana's ranking lowest in all states in salaries offered.

Table 23, Factors Influencing Decision of Future Practice Locations for Senior Medical Students by Future Practice and Medical School Attended, is similar to Table 21. Factors which might influence future practice decisions of senior medical students were read to the senior medical students and they were asked to rank these factors as a major influence, contributing influence, or minor or no influence. The factors were RECREATIONAL ACTIVITIES, JOINING PRACTICE OF FRIEND OR FAMILY, NON-PROFESSIONAL FAMILY TIES, HEALTHY CLIMATE TO RAISE CHILDREN, EDUCATIONAL OPPOR-TUNITIES FOR CHILDREN, ATTRACTION OF LOCATION FOR SPOUSE, DESIRE TO REMAIN IN ACADEMIA, FAVORABLE CLIMATE, DESIRED COMMUNITY SIZE, MOST FAVORABLE GEOGRAPHIC AREA OF LOCATION, FINANCIAL OPPORTUNITIES, and CULTURAL RESOURCES. In all the questions asked of medical students, interns and residents where there were numerous choices, the interviewee was first asked to respond without being given the choices. In the case of the factors influencing the decision of future practice location, four answers not listed as choices were frequently given. These were favorable hospital affiliation, need for specialty in community, favorable professional climate and the availability of allied health personnel. While none of these answers ranked extremely high, some extra significance must be given to them as they were volunteered and not offered as a choice. Of these, need for specialty in the community was the most important.

Table 24, Ranked Sacrors Influencing Practice Location of Senior Medical Students by Practice Location, shows each of the 12 factors



The second secon

TABLE

RANKED FACTORS INFLUENCING PRACTICE LOCATION OF SENIOR MEDICAL STUDENTS BY PRACTICE LOCATION

	Tc Rank	Total Per Cent	Rem for I Rank	Remaining for Practice ink Por Cent	Lec for P Rank	Leaving for Practice lank Per Cent	Unde for P Rank	Undecided or Practice sk Per Cent	
Desired Community Size		82.3%		84.4%	r-4	75.3%	-	36.98	
Healthy Climate to Raise Children	7	77.2%	2	82.5%	2-3	%0.69	2	78.67	•
Most Favorable Geographic Area of Location	ဂ	72.4%	4	70.6%	2-3	%0.69	3-4	77.4%	
Educational Opportunities for Children	7	67.5%	2-9	68.1%	4	56.3%	3-4	77.4%	
Favorable Climate	'n	65.8%	2-9	68.1%	5	53.2%	9	75.6%	
Recreational Activities	9	63.6%	3	75.0%	8	45.6%	7	%9.69	
Financial Opportunities	~	61.1%	S	%7*69	10	36.7%	5	76.2%	
Cultural Resources	∞	54.1%	Q	51.9%	9	75.64	œ	60.7%	
Attraction of Location for Spouse	Ø	%9.64	10	%7*67	7	48.1%	σ	51.2%	BEST CO
Desire to Remain in Academia	10	46.3%	Φ	52,5%	o,	42.4%	10	44.0% 44.0%	PY AVAII
Non-Professional Family Ties	11	32.5%	11	41.9%	11	30.4%	11	25.6%	ARLE
Joining Practice of Friend or Family	12	22.0%	12	30.0%	12	18.4%	12	17.9%	· -:

given as a choice to the interviewee and its rank as well as its percent out of a possible 100%. The five most important factors were DESIRED COMMUNITY SIZE, HEALTHY CLIMATE TO RAISE CHILDREN, MOST FAVORABLE GEOGRAPHIC AREA OF LOCATION, EDUCATIONAL OPPORTUNI-TIES FOR CHILDREN, and FAVORABLE CLIMATE. RECREATIONAL ACTIVITIES and FINANCIAL OPPORTUNITIES also ranked above 60% for the total sample. Of these last two, RECREATIONAL ACTIVITIES were more important for those planning to remain for practice (75%R) and those who were undecided on practice location (69.6%R) than for those leaving Louisiana to practice (45.6%R). FINANCIAL OPPORTUNITIES also rated a higher ranking from those remaining and those undecided on practice location. It rated 76.2%R for those undecided. 69.4% for those remaining and only 36.7% for those leaving. Other areas of major difference were NON-PROFESSIONAL FAMILY TIES and JOINING PRACTICE OF FRIEND OR FAMILY. Both of these factors were most important for those remaining for practice and least important for those who were undecided. This table indicates that the first five factors are important to all three groups those remaining, those leaving, and those undecided. These factors relate to individual taste and can be found in Louisiana or out of Louisiana. The table also indicates the relative importance of factors to the large undecided group. The factors may be especially significant in aiding development of measures to attract this particular group of physician trainees to Louisiana.

The information concerning postgraduate physician trainces is included in the rest of the tables. This includes interns, residents, final year residents, and family practice residents.



TABLE 25

TYPE OF PRACTICE PREFERRED BY SENIOR MEDICAL STUDENTS, INTERNS, 1ST YEAR RESIDENTS, FINAL YEAR RESIDENTS, AND FAMILY PRACTICE RESIDENTS

	Senior Medical Students	Interns	Residents	Final Year Residents	Family Practice	Total
Solo	17	æ	ĸ	20	0	45
Partnership	83	თ	22	20	2	136
Association	25	īΟ	2	ιń	0	37
Single Disciplinary Group	37	14	7	ω	2	65
Multispecialty Group	35	14	2	10	8	89
Government Service	4	0	m	0	0	7
Undecided	35	σ	18	1-1	લ	65
Other	-	0	ا ب	£1	o 1	25
Total	243	ጵ	. 99	77	లు	448

-63-

TABLE 26

DESIRED COMMUNITY SIZE FOR FUTURE PRACTICE

BY SENIOR MEDICAL STUDENTS, INTERNS,
FIRST YEAR RESIDENTS, AND FINAL YEAR RESIDENTS

	Metropolitan	Small City	Rural	Undec 1 ded	Total
Senior Medical Students	126	88	13	16	243
LSU New Orleans	76	70	. 4	7	124
LSU Shreveport	10	12	~	4	27
Tulane	07	36	∞	&	92
Interns	23	12	ø	13	54
First Year Residents	25	19	0	22	99
Senior Year Residents	56	11	7	en	77
Family Practice	ന		0	0	60
Total	233	135	26	54	448

Table 25, Type of Practice Preferred by Senior Medical Students, Interns, First Year Residents, Final Year Residents and Family Practice Residents, shows a strong preference by most physicians towards group practice type situations. In this case, group practice means partnership, association, single disciplinary group, or multi-specialty group. When this table is compared with Table 26, Desired Community Size for Future Practice by Senior Medical Students, Interns, First Year Residents and Final Year Residents, it is discovered that very few of the physicians trained in Louisiana intend to enter into a rural practice. One good reason may be the lack (either actual or perceived) of available group practices in the rural areas. Caution should be taken when examining Table 26, due to the fact that many physicians who practice in small cities serve rural populations. It does seem significant, though, that very few Louisiana trained physicians envision themselves as entering into a rural medical In Louisiana's 42 rural parishes one-ninth of the state's physicians service one-third of the state's population. In addition the majority of physicians in these rural parishes are general practitioners, and the median age for GP's in Louisiana is 5 years above that for the rest of medical specialties.*

Table 27, Future Practice Location by First Year Residents.

Final Year Residents and by Specialty, and Table 28, Future Practice Location by Interns and Family Practice Residents, shows where the sample of 54 interns, 66 first year residents and 77 final year residents as well as 8 family practice residents planned to establish practice. These totals are all adjusted. Appropriate adjust-

^{*} Community Data Profile Center, USPHS, 1970



TABLE 27

FUTURE PRACTICE LOCATION BY FIRST YEAR RESIDENTS,

FUTURE PRACTICE LOCATION BY FIRST FINAL YEAR RESIDENTS, AND BY	LOCATION BY FIRST YEAR RESIDENTS, RESIDENTS, AND BY SPECIALTY	
	1st Year Residents	Final Year Residents
Medical Specialties	13	16
Leaving Louisiana for Practice	2	2
Remaining	9	11
Undecided	5	ຕ
Surgical Specialties	33	36
Leaving Louisiana for Practice	9	æ
Remaining	6	21
Undecided	18	7
Other Specialties	20	25
Leaving Louisiana for Practice	m	9
Remaining	7	19
Undecided	10	0
Total	99	77
Leaving Louisiana for Practice	11	16
Remaining	22	51
Undecided	33	10



Commence of the commence of th

TABLE 28

FUTURE PRACTICE LOCATION BY INTERNS AND FAMILY PRACTICE RESIDENTS

54	©
28	F-4
14	7
12	0
Interns	Family Practice Residents
	12 14 28



ments were necessary due to the fact that a one-third sample and a one-half sample was selected of interns and first year residents from Charity Hospital and Ochsner Clinic respectively. A full 100% sample of interns and first year residents was taken from Confederate Memorial Hospital. In the case of final year residents, full samples were taken from Ochsner and from Confederate Memorial in Shreveport and a one-third sample was selected from Charity Hospital in New Orleans.

It is interesting to note that a large number of interns and first year residents were undecided on whether they would practice in Louisiana or elsewhere. This corresponds to a similar percent of medical students who were undecided. Most final year residents, however, had decided by the time of the interview. This seems to indicate that decisions as to practice location tend to occur late in the training programs. It should be noted here that the large number of final year residents indicated as remaining in Louisiana in Table 27 should not be over-interpreted as being significant since by the time of the interview a large percentage of the final year residents had already left the state and were not returning.

Table 30, Ranked Factors Influencing Training Location by
Interns. First Year Residents, and Final Year Residents, is a summary of Table 29, Factors Influencing Decision of Postgraduate Medical Training Location by Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Medical Specialty Where Applicable. In the total column of Table 30, it can be seen that REPUTATION OF PROGRAM OR DIRICTOR and GEOGRAPHIC LOCATION were by far the two most important factors influencing teaining location. Following that, PRESTIGE OF INSTITUTION, IMPRESSED WITH STAFF and



The second secon

TABLE 29

FACTORS INFLUENCING THE DECISION OF POSTGRADUATE MEDICAL TRAINING LOCATION BY INTERNS, FIRST YEAR RESIDENTS, FINAL YEAR RESIDENTS, FAMILY PRACTICE RESIDENTS & BY NEDICAL SPECIALTY WHERE APPLICABLE

Ot her	170	160	30	70	9	0	0	0	0	20	400
Change of Scenery	95	155	20	8	45	20	Ŋ	45	0	10	310
Good Education for Children	30	155	10	75	20	115	0	95	8	ĸ٦	305
Family Mearby	105	85	20	55	10	235	35	8	110	15	440
Family Did Not Wish to Move	20	135	ĸ	55	75	200	80	09	09	20	375
Other Economic Ressons	110	110	'n	9	45	110	0	75	35	20	350
Job Opportunities for Spouse	130	105	30	15	9	40	25	15	0	15	290
Spouse Norking Here	110	70	30	01 .	30	40	25	15	0	٠,	225
Salary	0	15	10	10	0	20	0	พ	15	50	55
Cultural Resources	95	215	20	65	100	170	70	110	, 0,	1 0	485
Recreational Facilities	135	225	20	110	65	115	30	75	10	25	200
Geographic Location	350	425	20	235	120	455	105	165	185	50	1280
Impressed With Facilities	180	265	60	115	06	190	10	130	જ	80	715
Impressed With Staff	180	280	20	160	70	315	45	120	150	55	830
Prestige of Institution	210	300	40	125	135	305	20	185	70	40	855
Reputation of Program or Director	230	260	80	290	190	585	105	24.5	205	35	1410
# With Children	14	35	en	17	15	53	11	35	12	~	110
# Married	37	52	Ø	26	17	61	13	36	12	9	156
Adjusted # Interviewed	54	99	13	33	20	11	16	36	25	ω	205
# Interviewed	30	39	9	23	2	43	2	22	11	80	120
	Interns	First Year Residents	Medical Specialties	Surgical Specialties	Other Specialties	Final Year Residents	Medical Specialtics	Surgical Specialties	Other Specialties	Family Practice Residents	Total

Transcript street by the second street of the secon

TABLE 30

KANKED FACTORS INFLUENCING TRAINING LOCATION BY INTERNS, FIRST YEAR RESIDENTS AND FINAL YEAR RESIDENTS

												•			
붜					1	1			1		1	BEST CO	PY AVAI!	ARLE	
Final Year Residents ik Por Gent	76.0	59.1	39.6	6.04	24.7	14.9	22.1	30.5	26.0	14.3	6.5	14.9	5.2	5.2	2.6
Fina Res: Rank	1	2	4	ń	7	01-6	ω	'n	9	11	12	9-10	13-14	13-14	15
First Year Residents nk Per Cent	84.8	7. 49	45.5	45.4	40.2	34.1	32.6	12.9	20.5	16.7	23.5	23.5	15.9	10.6	2.3
Fir Res Rank	1	7	က	4	5	9	7	13	10	11	8-9	8-9	12	14	15
erns Per Cent	42.6	8.49	38.9	33,3	33,3	25.0	17.6	19.4	3.7	20.4	17.6	5.6	24.1	20.4	0.0
Interns Rank Per	2	1	m	4-5	4-5	9	11-12	10	14	8-9	11-12	13	^	8-9	15
뷥															
Total Per Cent	68.8	62.4	41.7	40.5	34.9	24.4	23.7	21.5	18.3	17.1	15.1	14.9	14.1	11.0	2.7
Rank	1	2	ო	4	5	9	7	∞	6	10	11	12	ដ	14	15
	Reputation of Program or Director	Geographic Location	Prestige of Institution	Impressed with Staff	Impressed with Facilities	Recreational Activities	Cultural Resources	Family Nearby	Did Not Wish to Move Family	Other Economic Reasons	Change of Scenery	Good Education for Children	Job Opportunities for Spouse	Spouse Working Here	Salary
							70								

A CONTRACTOR OF THE PROPERTY O

IMPRESSED WITH FACILITES were fairly important but not nearly as important as the first two. A major difference between the interns, first year residents, and final year residents exists for the factor, REPUTATION OF PROGRAM OR DIRECTOR. While this ranked second with interns, it only received 42.6%R as compared with 84.8%R for first year residents and 76.0%R for final year residents. factor IMPRESSED WITH FACILITIES was far less significant for final year residents than the other two postgraduate groups. Hindsight may be the case with RECREATIONAL ACTIVITIES which also was far less important for final year residents, although it did not seem to be extremely important for any group. CULTURAL RESOURCES held little importance for interns and greater importance for first year residents and final year residents. FAMILY NEARBY was far more important for final year residents than it was for interns or first year residents. This may indicate a general trend developing over the past five years. DID NOT WISH TO MOVE FAMILY was of relatively insignificant value to interns and was slightly more important to first year residents and final year residents. JOB OPPORTUNITIES FOR SPOUSE and SPOUSE WORKING HERE were unimportant for all three groups but when adjusted for those married assumed a more significant amount of importance. The degree of importance decreases from interns to first year residents to final year residents indicating that by the time a physician reaches his final year of residency he probably stops depending on his spouse for carning part of the family income. This is probably partially due to the fact that most of the married final year residents do have children.

Table 31 is titled Perceived Strengths of Postgraduate Medical



notabaod valantal

PERCHIVED STRENGTHS OF POSTCRADUATE MEDICAL TRAINING PROCEAUS IN LOUISIANA BY INTERNS, FIRST YEAR RESIDENTS, FIYAL YEAR RESIDENTS, FIXAL YEAR RESIDENTS, FAMILY PRACTICE RESIDENTS, AND BY MEDICAL SPECIALLY WHERE APPLICABLE TABLE 31

Totontial for Eventual Restrict Location	20	23	٠	1	Φ.	17	2	35	13	•	BEST COPY AVAILABLE
Rotalius sound gatadatinoom	29	38	80	20	2	33	M	. 21	•	w	50
Politities Facilities	•	∞	5	0	m	0	0	0	0	₿	61
Loosely Organized	=	11	m	~	'n	11	p=4	2	0	-	¥.
bəzinegaO yidgili emuagovi lunoitesubä	77	21	m	5	•	23	ĸ	ev.	2 ν	-	69
Opportunity for assessed	9	19	m	6	•	ន	8	ដ	•	-	3
University Connection	*	31	4	19	8	64	11	12	11	4	118
Good Schedula September Se	35	07	₩	81	14	94	::	18	11	٠	
Hours of Fork	35	33	4	13	*	2	\$	34	80	4	5
High Quality Support Services	9	28	4	2	11	8	٠	13	•	•	22
Excellence of Fellow Residents	41	64	9	25	18	. 99	12	*	20	^	163
Contact With High Level Teaching Staff	*	5 7	13	81	13	23	ន	22	13	4	721
Relationship With Teaching Stait	オ	20	13	23	14	31	ន	21	13	7	142
Sweetlence of	82	46	13	21	13	43	6	21	11	•	911
Opportunity to Exercise Independent Judgement	67	፠	11	8	11	89	91	31	21	~	180
Selety	7	-	0	***	٥	9	•	•	φ	8	न ल
Lerge Volume of Clinical Experience	3	09	ជ	31	16	11	71	35	22	•	181
Variety of Clinical Experience	52	62	13	31	18	75	21	*	23	80	197
Peterogeneous Patient Retoreneous Patient	13	21	7	==	**	11	m	4	10	m	82
Homegeneous Patteric Romeston	2	ی	0	en.	m	ï	-4	6	~	·	88
Courdination of Departments	15	26	•	ఈ	11	72	œ	11	'n	7	72
hdjusted Number Interviewed	3	99	2	33	20	11	16	3.6	25	80	205
badetvioini modenii	2	39	9	23	2	£ 3	10	23	=======================================	60	120
	Interns	First Year Residents	Medical Specialities	Surgical Specialties	Other Specialties	Finel Year hesidents	Medical Specialties	Surgical Specialities	Other Specialiles	Fortly Tractice Residents	Total



1
Tevel Research Level Research Highly Organized Educational Program Educational Program Educational Program Conductor on Conduction Educational Program Educational Program Educational Program Conduction Educational Program Educat
Educational Program solving F. cilities solving F. cilities solving F. cilities of the Arabitable solving F. cilities of the Arabitable solving F. cilities of the Arabitable o
gartifilition of a second of a

BEST COPY AVAILAR'S

Training Programs in Louisiana by Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Medical Specialty Where Applicable. It can be seen from Table 31 that the most significant strength of Louisiana's residency programs are the VARIETY OF CLINICAL EXPERIENCE, LARGE VOLUME OF CLINICAL EXPERIENCE, OPPORTUNITY TO EXERCISE INDEPENDENT JUDGMENT and EXCELLENCE OF FELLOW RESIDENTS. Other important strengths are RELATIONSHIP OF TEACHING STAFF, GOOD SCHEDULE OF NIGHTS ON CALL, CONTACT WITH HIGH LEVEL TEACHING STAFF, UNIVERSITY CONNECTIONS, and EXCELLENCE OF SUPERVISION. It should be noted that interns did not rate highly EXCELLENCE OF SUPERVISION as a strength, while residents did. This is also somewhat true of CONTACT WITH HIGH LEVEL TEACHING STAFF. The lowest scoring strength on Table 31 is SALARY. The six final year residents to rate SALARY as a strength were in psychiatry at Charity Hospital.

Table 32, Perceived Weaknesses of Postgraduate Medical Training Programs in Louisiana by Interns, First Year Residents, Final Year Residents, Family Practice Residents and by Medical Specialty Where Applicable, is similar to Table 31. The interviewee was asked to rate the various choices given in Table 32 as weaknesses. By far the largest weakness was SALARY. 69.8% of the interns and residents rated salary as a weakness. The next closest weakness was LACK OF COORDINATION IN DEPARTMENT. 47.8% of the interns and residents ranked it as a weakness. The only other factor which might be considered to be significant as a weakness was LOW QUALITY SUPPORT SERVICES. It is interesting though to examine the strongth table in light of the weaknesses table and see that a fairly large



FABLE 33

FACTORE INCLUENCING THE EFFISION OF FUTURE PRACTICE LOCATION BY SEMION MEDICAL STUDENTS, INTERNS, FIRST YEAR RESIDENTS, FINAL YEAR RESIDENTS, AND BY FUTURE PRACTICE LOCATION

Health Personnel	١.	_	_	_	_	_	_	_	_	_	_									
bailly to griffdafimyh	8	01	70	•	70	•	٥	20	70	•	9	70	•	2 6	9	•		•	5 (•
Innotazatori e Marokani Samila	330	8	110	130	S	0	20	g	110	0	0	110	9	3 9	2	9	07	; •	>	2 2
Reed for Specialty in Community	92	200	240	320	110	30	20	30	901	0	8	70	25	9	120	S	01	,	-	2 0
fariqsol e Mospital Attititation	380	90	130	160	140	0	92	02	100	٥	91	06	Ç	20	20	01	0	•)	
Cultural Acsources	1315	390	415	510	280	35	8	195	370	2	8	270	315	65	200	S	90	•	> 6	2 2
Financial Opportunities	1485	290	555	079	365	40	115	210	355	20	110	265	670	56	295	80	Š	•	, ,	, w
Most Favorable Geographic Area of Losation	1760	545	565	650	335	09	110	195	365	જ	8	225	575	125	305	45	80	c	, 4	, "
Desired Community Size	2000	595	673	730	445	9	140	245	064	09	135	295	485	135	390	\$5	75	c		2
Favorchic Climate	1600	420	545	635	285	20	25	210	455	20	75	330	435	140	230	65	43	6	. 84	•
Dusize to Remain in Academia	1125	335	420	370	200	2	07	150	300	25	8	225	094	65	335	9	æ	6	. 22	*
nolissod to noliserita. sauog2 moi	1205	380	395	430	355	07	8	225	430	09	110	260	360	75	220	75	55	•	45	22
Educational Oppoxtuni- nistics for Children	0591	445	545	650	405	20	95	260	510	09	110	34.0	430		215 22	100	8	•	_	
bealthy Climate to Raise Children	1875	545	099	670	405	55	95	255	505	09	115	330	% 8,0	140	305	65	09	0	S	01
Von-professional Featly	790	240	335	215	225	25	120	80	265	45	125	55	370	15	25	8	s,	0	45	•
Friend or Family	535 7	145 2	240 3	150 2	70 2	0	40	8	125 2	30	60 1	35	245 3	30	180 3:	35	, 8	0	200	ė
to sittant guidhel	M	~	Ñ	فستو			•	••	ä	•••	•	61					~		~	
Recreational Activities	1545	360	600	585	320	65	70	190	400	8	75	275	410	\$	230	35	55	0	45	9
ngrp children	40	on.	18	13	77	•	•	80	35	m	6	23	58	*	ສ	2	៳	0	m	0
Number Parried	156	55	22	67	33	4	13	20	52	9	2	31	61	15	36	2	9	0	٠	0
funct bormina	243	42	S	ಷ	×	~	13	33	99	φ	91	5 75	11	91	15	01	60	c	7	**
hearitzent fator	180	51	53	36	30	m	01	12	39	m	10	ફ	43	12	5.5	9	e	0	~	-
	Service Students	• • • • • • • • • • • • • • • • • • •	gaint the	Sacilly 112	Take on the same of the same o	But Viere	F. m. finfing.	Uniteded	suppress a statement	See a	Sections	Ti welled	tirel to Sestiones	5.45 t est	enini.	Pop : Tun	Esting ractice Revilents	Leaving	อีนรุ่นจุกการ	Charled



TABLE :

A THE CANTORS INFLUENCING PRACTICE LOCATIONS OF ALL POSTGRADUATE TRAINEES BY PRACTICE LOCATION

	Rank	Total Per Cent	Le	Leaving k Per Cent	Rem	Remaining k Per Cent	Unc Rank	Undecided k Per Cent
Healthy Climate to Raise Children	~	73.7	1-2	87.9	3-4	63.5	2	79.3
Desired Community Size	2	72.9	1-2	87.9	1	82.0	7	58.6
Educational Opportunities for Children	က	68.0	4	77.6	80	51.7	æ	81.6
Financial Opportunities	7	60.5	∞	53.4	3-4	63.5	9	59.8
Most Paverable Geographic Area	ភ	59.8	8	81.0	5	61.8	6	50.6
Favorable Climate	vo	59.5	5	72.4	10	45.5	3	69.5
Attraction of Location for Spouse	7	58.5	7	60.3	7	52.2	4	64.4
Recreational Activities	œ	57.8	9	0.69	9	53.9	œ	58.0
Cultural Resources	O	48.5	10	41.4	11	39.3	5	60.3
D. sire to Remain in Academia	10	48.3	Ø	8.44	6	50.6	10	47.1
Non-Professional Family Ties	11	44.1	11	29.3	2	69.1	11	23.6
Joining Practice of Friend or Family	12	22.4	12	20.7	12	33.7	12	11.5

number of interns and residents rated HIGH QUALITY SUPPORT
SERVICES and COORDINATION OF DEPARTMENTS as strengths. A complaint that was fairly frequently volunteered as a weakness
was lack of equipment. This was particularly true of trainees
at one of the three major hospitals. Since this was not a
choice given—the interviewee it is not included in either
the strength or the weakness tables.

Table 33 is titled Factors Influencing the Decision of Future Practice Location by Senior Medical Students, Interns, First Year Residents, Final Year Residents, Family Practice Residents, and by Future Practice Location. Table 34, Ranked Factors Influencing Practice Locations of all Postgraduate Trainees by Practice Location, is a summary of Table 33, excluding senior medical students. This was done because information concerning senior medical students has been presented previously. The total column of Table 34 gives the rank and percent out of a possible 100%R that each factor received for interns, first year residents and final year residents. first eight factors: HEALTHY CLIMATE TO RAISE CHILDREN. DESIRED COMMUNITY SIZE, EDUCATIONAL OPPORTUNITIES FOR CHILDREN, FINANCIAL OPPORTUNITIES, MOST PAVORABLE GEOGRAPHIC AREA OF LOCATION, FAVOR-ABLE CLIMATE, ATTRACTION OF LOCATION FOR SPOUSE and RECREATIONAL ACTIVITIES are the most important to all three groups. The least important factor is JOINING THE PRACTICE OF A FRIEND OR FAMILY. In comparing the difference between those leaving Louisiana for provides, those remaining for practice and those who are undecided, it can be seen that DESIRED COMMUNITY SIZE is not as important for



those who are undecided as for those remaining and leaving: however, it is still an important factor, ranking more than 58%R EDUCATIONAL OPPORTUNITIES FOR CHILDREN seems less important for those remaining than those leaving or those undecided. Again, though, it still ranks over 51%R for all three groups. FAVORABLE CLIMATE is least important to those remaining and does drop to 45.5%R. CULTURAL RESOURCES is far more important to the undecided group than the group remaining or the group leaving. Finally, NON-PROFESSIONAL FAMILY TIES, as would be expected, was more important to those remaining than either those leaving or those undecided even though it was not as important on an overall basi. Those physicians planning to remain in Louisiana ranked it #2 overall and rated it 69.1%R.

Table 35, Ranked Factors Influencing Practice Locations by Interns, First Year Residents and Final Year Residents, is also a summary of Table 33. Here, the columns have been arranged according to interns, first year residents, and final year resi-There were only three significant differences in this dents. table. The first is the factor, EDUCATIONAL OPPORTUNITIES FOR This seems far less important to final year residents CHILDREN. than either interns or first year residents but it still rates above 50%R. Similarly, ATTRACTION OF LOCATION FOR SPOUSE, is also less important for final year residents, rating at 16.8/R. while above 65%R for both interns and first year residents. DESTRE TO REMAIN IN ACADEMIA is relatively unimportant for interms and first year residents and extremely important for final



TAB 35

RANNED FACTORS INFLUENCING PRACTICE LOCATION BY INTERNS, FIRST YEAR RESIDENTS AND FINAL YEAR RESIDENTS

				RF!	ST COPY A	VAILABL	<u> </u>					
Final Year Residents ok Per Cent	70.1	63.0	55.8	61.0	61.7	56.5	46.8	53.2	40.9	59.7	48.1	31.8
Fin: Res Rank	Н	2	7	4	m	9	10	œ	11	5	Ø	12
First Year Residents nk Per Cent	76.5	74.2	77.3	53.8	55.3	68.9	65.2	9.09	56.1	45.5	40.2	18.9
Firs Res Rank	2	m	ı	6	œ	4	5	ø	7	11	10	12
Interns Per Cent	75.0	82.4	75.0	67.6	62.0	52.8	65.7	59.3	51.9	37.0	41.7	13.0
In Rank	2-3	1	2-3	4	ø	œ	2	7	O,	11	10	12
Total Per Cent	73.7	72.9	68.0	60.5	59.8	59.5	58.5	57.8	48.5	48.3	44.1	22.4
Rank		8	က	4	r	9	7	∞	6	10	11	12
•	Healthy Climate to Raise Children	Desired Community Size	Educational Opportunities For Children	Financial Opportunities	Most Favorable Geographic Area of Location	ravorable Climate	Attraction of Location for Spouse	Recreational Activities	Cultural Resources	Desire to Remain in Academia	Non-Professional Family Ties	Joining Practice of Friend or Family

year residents. There is a gradual increase from interns to first year residents to final year residents, indicating either that the closer a physician in training comes to actual medical practice, the greater the desire to remain connected with academia, or a general changing trend over time in the attitude of groups of medical school graduates. A final note of interest on Table 35 is the factor JOINING PRACTICE OF FRIEND OR FAMILY. This gradually increases from interns to first year residents and then sharply increases for final year residents although it never achieves a high rating from any group. The increase is probably related to more people having made decisions concerning their plans for practice as final year residents.

A further examination of both factors influencing practice location and factors influencing training location by specialty is desirable; however, this was not done due to a feeling by the staff that the sample size in these individual specialty categories might not be large enough. This will be an area for future examination. Family practice residents were not included in any of the summary tables and were not mentioned in describing any of the other tables because of their small number.

In addition to tabular data, certain questions of a more general nature were asked of senior medical students and post-graduate trainees. One of these questions covered the subject of "location of practice services." Almost all of the medical sections and internation nothing of either the AMA location service or the State Medical Society location service. Interest



was expressed by several of the interviewees regarding such services. Residents were unaware of the location services, but a larger percentage than students and interns were aware of and had used the AMA service.



DISCUSSION

The first point to be discussed is the overall need for physicians in Louisiana in 1982. The estimates in Table 1 were meant to give a rough picture of overall trends, not accounting for specialty distribution and geographic distribution in the state. Although this type of data should lead to very limited interpretation, it is felt that it indicates there is indeed developing a significantly increased need for physician services and/or their equivalent.

In the physician manpower production process there are three major areas where input modifications can occur: admissions to medical school, attracting physicians for postgraduate training and attracting physicians for final practice location. Using present information (including gross estimates of the necessary components for projection) the effects of various inputs at these areas are illustrated.

Among other things, these illustrations demonstrated that different actions carry with them different levels of expense, chances of overproduction, time lags, and other practical considerations. It should also be obvious that the various actions to be taken fall under the responsibilities of different agencies or institutions and that the actions of these groups should be coordinated. The Committee responsible for this study could indeed be the mechanism for such coordination.

When the gross estimates are compared with the new information available in the AMA tapes, it was found that the estimate used for percentage of Louisiana graduates remaining in the state for practice



was indeed reasonable and in fact this percentage has been increasing (see Table 9). It was also found that up to 1960 the estimate for those coming to Louisiana to practice was probably satisfactory, although since that time there has been an increase. There is some evidence (see Tables 9 and 10) that Louisiana has been more attractive to both its own graduates and to outside physicians since 1960. It would be important to know whether the physicians coming from out-of-state were attracted before of after postgraduate training. This information should become available from the additional AMA computer tape.

In our survey of senior medical students it was seen that 50% of those who have decided upon location for practice are at the present time planning to stay in Louisiana (Table 18). This compares favorably with the 43% in Table 9. The important fact, as would be expected, is that over one-third of the students have yet to indicate any preference (Table 18). It should also be noted that in our sample, none of the students admitted to medical schools in Louisiana from other states were planning to stay in Louisiana for practice. Of those students accepted from Louisiana, 52.6% are planning to stay in Louisiana for practice and 38.2% are still undecided (see Table 18).

As mentioned earlier, it would be important to evaluate our need for physician services in terms of specific medical specialties. From Table 4 the preliminary data indicate varied levels of need among specialties. The most important piece of information gained by this analysis was the delineation of the problem Louisians faces in the area of primary care.

To get an in-depth evaluation of the physician manpower



production process as it relates to the primary care area would take further information describing more specifically the postgraduate portion of the process. As stated before, the data are not available at this time.

It can be seen from the AMA data that although Louisiana graduates a high percentage of physicians who are in patient care and indeed imports most of its physicians needed for research and teaching, these physicians that Louisiana medical schools graduate are showing a decreasing interest in primary care. Their interest seems to be centered mainly on the surgical specialties.

Table 20 developed from the interviews with senior medical students indicates that while the students believe that the overall influence of medical school experiences towards primary care was favorable, those planning to enter the primary care areas (particularly internal medicine) were being attracted to locations outside Louisiana. The data from the AMA tapes in Table 15 indicate that in 1960-64 the total number of medical specialty physicians locating in the state remained the same due only to an increase in those locating here from outside the state. This finding appears to be due to a decrease both in the production and in numbers retained of medical specialists graduating from Louisiana medical schools.

A different trend appears to be true in the area of general practice where the retention of Louisiana graduates has increased but the total number in Louisiana has decreased because the total number entering the field has been rapidly decreasing.

In Table 6 our major lack of capacity for production in terms of terminal year resident positions is in the area of primary care.



To get a better understanding of the relationship of our capacity for production to actual production, information concerning the number of residency positions filled by specialty is needed. Also desirable would be information on the number of resident positions filled by foreign graduates since few remain in Louisiana for practice. These data are not available for consideration at this time.

Although we realize that opinions given are not always the true reasons for actions taken, we feel the surveys of senior medical students, interns and residents do give some indications of the basis for their decisions regarding training and practice locations. As a result, some special emphasis should be placed on the interpretation of the interviews.

The major influencing factors, geographic location and prestige items, are important for all groups, whether remaining or leaving for training (Table 30). The major factor differing between those remaining and those leaving for training is salary, which is extremely low in Louisiana. The importance of this factor is confirmed by the fact that those leaving the state for training rated it extremely high and those remaining for training (including interns and residents) gave it their lowest rating of all factors influencing training locations (Tables 22 and 30). In addition, interns and residents rated salary as the major weakness in their postgraduate medical training programs.

Strengths listed by the interns and residents reflected the type and haspitals offering residencies in Louisiana. Large volume and variety of clinical experience with its concomitant physician trainee responsibilities were the highest rated



strengths (Table 31).

For senior medical students, interns and residents, quality of life factors (e.g., EDUCATIONAL OPPORTUNITIES FOR CHILDREN, RECREATIONAL ACTIVITIES, HEALTHY CLIMATE TO RAISE CHILDREN) are the most important factors concerning practice location regardless of whether the future practices were in or out of Louisiana (Tables 23 and 33). Of the two major differences between those remaining and those leaving, family ties were extremely important to those remaining. Financial opportunities were unimportant only to senior medical students who were leaving Louisiana for practice.

Other factors that should be considered important in selecting practice locations include type of practice and size of community (Tables 25 and 26). Group practice was the overwhelming choice of all trainees in terms of the type of practice desired. The preference of practice location in metropolitan and small city areas tended to reflect general population trends (maldistribution in rural areas is evident) among answers indicated by senior medical students, interns and first year residents. The percentage shifted sharply to metropolitan practice locations among final year residents. It would be important to know whether this increase represents the feelings of an unusual group, a terminal group before the beginning or a new trend, or a change in decision late in residency training. Support for this last alternative exists in Table 27 and from the literature which indicate decisions regarding location of practice occurs late in the residency period.



SUMMARY AND RECOMMENDATIONS

In summary, this report has indicated that Louisiana is facing several significant manpower production problems in its preparation for the physician services it needs in 1982, e.g., the predicted shortage of physician services and/or their equivalent in the area of primary care. The reasons why a statewide planning program is needed to face these problems were delineated. The report has illustrated the need for more specific information to be brought to bear on these problems before practical effective modification in the physician manpower production process can be recommended.

The committee, after reviewing the body of this report; felt that the following conclusions warranted special consideration:

- 1. The number of attractive, high-quality primary care residency positions in the areas of family practice, internal medicine, and pediatrics, exclusive of subspecialization, should be increased and modified to meet the needs for potential trainees entering the area of primary care. This could include such measures as studying the correlation between demand for and availability of residency positions, determining the need for institutional and non-institutional training settings, developing permanent methods of financing such training, and improving salary incentives.
- 2. Information regarding primary care practice opportunities in Louisiana should be made available:
- a) to those physicians training for primary care specialties in Louisiana training instutions
- b) to those physicians who graduated from Louisiana medical schools and who are receiving training in the area of primary care elsewhere.



e) to medical students training in Louisiana medical schools.

It is already understood that some information of this type is available through the Louisiana State Medical Society and the American Medical Association. Methods should be developed to improve dissemination of this information to the groups mentioned above.

- 3. The report indicates that there is an essential need for further analysis of variations in the physician manpower production process over time and by specific specialty. Such analysis is planned when the third AMA tape on Interns and Residents trained in Louisiana becomes available, hopefully in the summer of 1973.

 (A copy of this report justifying the need for this tape is being forwarded to the American Medical Association's Department of Survey Research.)
- 4. Further studies are needed to determine what factors influence the decision to practice in Louisiana and how these factors can be related to the three major points of input in the physician manpower production process: admission to medical school in Louisiana, decision to pursue postgraduate training in Louisiana, and decision to locate practice in Louisiana.
- 5. Studies are needed to determine positive and negative factors which influence the choice to specialize in the primary care area and to determine how the medical schools can use these factors to increase interest in primary care practice.
- 6. Studies are needed to determine factors which tend to encourage subspecialization by physicians in the primary care area and see if these can be modified to limit the number of physicians doing so.
 - 7. Studies are needed to examine the geographic distribution



of physician services by specialty in Louisiana and to determine areas of need.

- 8. The record capabilities of hospitals conducting residency programs must be improved in areas such as:
 - a) number of positions offered by specialty
 - b) number of positions filled by specialty
 - c) number of positions filled by foreign medical graduates by specialty, and
 - d) eventual practice location of graduate trainees.

The Committee developed and approved a set of recommendations based on the data presented in the report:

- 1. The Committee presently involved in the study shall continue its activities in this area and serve as the mechanism for a cooperative program of action.
- 2. The Committee shall utilize appropriate outside expertise to help in the evaluation of each conclusion, to develop recommendations, and to determine the proper agencies to involve in the implementations of these specific recommendations.
- 3. The Committee shall seek financial support from the state to continue the study of Louisiana's physician manpower needs.
- 4. The Committee shall seek financial assistance from the Bureau of Health Manpower Education and any other appropriate federal agency to supplement local financial resources mentioned above in order to expand the data and to implement specific recommendations that will be developed.



FOOTNOTES

- 1. J. N. Haug, G. A. Roback, and B. C. Martin, <u>Distribution of Physicians in The United States</u>, 1970, Center for Health Services, Research and Development, American Medical Association, Chicigo, 1971.
- 2. <u>Health Manpower Perspective</u>: 1967, Bureau of Health Manpower, U.S. Department of Health, Education, and Welfare Washington; 1967, p.9.
- 3. Roger L. Burford and Sylvia G. Murzyn, <u>Population Projections by Age, Race, and Sex for Louisiana and its Parishes 1970-1985</u>, Occasional Paper Number 10, Division of Research, College of Business Administration, Louisiana State University, Baton Rouge, Louisiana, June, 1972.
- 4. Current Estimates from the Health Interview Survey, United States-1970, U.S. Department of Health, Education, and Welfare, Vital and Health Statistics, Series 10, Number 72, p. 25.
- 5. Age Patterns in Medical Care, Illness, and Disability, United States, 1968-1969, U.S. Department of Health, Education, and Welfare, Vital and Health Statistics, Series 10, Number 70, p. 30.
- 6. G. A. Roback, <u>Distribution of Physicians in the United States</u>, <u>1971</u>, Center for Health Services, Research and Development, American Medical Association, Chicago; 1972. Interns, Residents, and inactive physicians are omitted from the physician population as of December 31, <u>1971</u>.
- 7. J. N. Haug, G. A. Roback and B. C. Martin, op. eit.
- 8. H. R. Mason, "Manpower Needs by Specialty, " <u>Journal of the American Medical Association</u>, Vol. 219, No.12, March 20, 1972, p. 1621.
- 9. Journal of the American Medical Association, Education Number.
- 10. C.H. William Ruhe, M.D., Willard V. Thompson, M.D. George Mixter, Jr., M.D., Martin Putnoi, M.D., Cameron Brown, and Rose Tracy, M.B.A., <u>Directory of Approved Internships and Residencies 1971-72</u>, American Medical Association, 1971, p. 24.



<u>APPENDIX</u>



A Description of the AMA's M.D. Master Record

- 1. Medical Education Number
 - a. State or country of medical education
 - b. Medical school of graduation
 - c. Year of graduation
- 2. Name of Physician
- 3. Sex
- 4. Current Professional Mailing Address
- 5. Geographic Codes
 - a. State
 - b. County
 - c. City
 - d. Zip code
- 6. Birthdate
- 7. Birthplace
- 8. Citizenship or Visa Code
- 9. State Licensure Data
- 10. National Boards
- 11. Major Professional Activity--Type of Practice
- 12. Specialty
 - a. Primary
 - b. Secondary
 - c. Tertiary
- 13. Present Employment
- 14. American Specialty Boards
- 15. Specialty Societies
- 16. Current and Former Medical Training
 - a. Internship
 - b. Residency
- 17. Current and Former Government Service
- 18. Professional Appointments



CHANGES IN COMPOSITION OF LOUISIANA'S POPULATION 1960-1980

Year	1960	1970	1980 ¹
Total Population	3,257,022	3,643,180	3,954,789
Percent Increase			-
From Previous Census	21.4%	11.9%	8.6%
White	67.9%	69.8%	71.0%
Nonwhite	32.1%	30.2%	29.0%
Male	48.9%	48.6%	48.5%
Female	51.1%	51.4%	51.5%
Under 18	40.4%	38.1%	32.8%
18 - 64	52.2%	53.3%	57.6%
65 and over	7.4%	8.4%	9.6%

Burford, Roger L. and Sylvia G. Murzyn, <u>Population Projections by Age, Race, and Sex for Louisiana and its Parishes 1970 - 1985</u>, Occasional Paper Number 10, Division of Research, College of Business Administration, Louisiana State University, Baton Rouge, La., June, 1972.



NUMBER OF PHYSICIAN VISITS PER PERSON PER YEAR, 1969*

A11	Under 17	17-44	45-64	65 years
Characteristic Ages	years	years	years	& over
Num	ber of visi	ts per po	erson pe	r year
All persons4.3	3.6	4.2	4.7	6.1
Sex				
ale3.7	3.7	3.1	4.1	5.5
'emale4.7	3.4	5.1	5.2	6.6
Color				
hi <u>te4.4</u>	3.8	4.2	4.7	6.2
11 other3.5	3.0 2.5	4.2	4.4	5.1
	-		·	
Family income				
nder \$3,0004.8	2.7	4.5	5.5	6.0
3,000-\$3,9994.6	2.8	4.7	5.5	5.9
4,000-\$6,9994.1	3.1	4.1	4.8	6.3
7,000-\$9,9994.1	3.7	4.1	4.7	6.0
.0,000 and over4.3	4.2	4.2	4.3	7.5
Geographic region				
ortheast4.4	3.9	4.1	4.6	6.5
orth Central4.0	3.2	4.0	4.8	5.6
outh4.1	3.5	4.0	4.5	6.0
est4.6	3.7	4.8	4.9	6.7
Area of residence				
MSA4.4	3.8	4.3	4.9	6.2
utside SMSA:		-	-	-
Nonfarm4.0	3.2	4.0	4.5	6.2
Farm3.1	2.3	2.6	3.7	5.6
Marital status				
All persons 17 years and				
over4.6	•••	4.2	4.7	6.1
arried4.7	• • •	4.5	4.6	5.9
idowed, divorced, or separated6.0	• • •	5.5		
over married3.3	•••	3.2	3.5	5.9

^{*} Vital and Health Statistics, Age Pattern in Medical Care, Illness, and Disability 1968-1969. U.S.Department of Health, Education, and Welfare



PERCENT DISTRIBUTION OF PHYSICIAN VISITS, 1969*

		PLACE OF VISIT			
AGE AND DATE	Total	Home	Office	Hospital Clinic	Other & Unknown
All Ages			cent dis	tribution	
1969	100.0	2.3	70.1	10.3	17.3
July 1963-June 1964	100.0	5.4	69.8	11.9	12.9
July 1957-June 1959	100.0	9.7	65.8	9.4	15.1
65 years and over					
1969	100.0	8.0	74.4	6.1	11.5
July 1963-June 1964	100.0	17.3	64.2	8.5	10.1
July 1957-June 1959	100.0	22.8	60.2	6.8	10.1



^{*} Vital and Health Statistics, Age Pattern in Medical Care, Illness, and Disability, 1958-1969 U.S. Department of Health, Education, and Welfare.

AVERAGE NUMBER OF WEEKS PRACTICED PER YEAR BY SPECIALTY AND LOCATION, 1969

		Location		
SPECIALTY	Total	Non-Metropolitan	Metropolitan	
Total	48.0 (4381)	48.2	47.9	
General Practice	48.1 (960)	48.4	47.9	
Internal Medicine	47.8 (722)	47.7	47.8	
Surgery	47.8 (1007)	48.3	47.8	
Obstetrics-Gynecology	48.6 (303)	48.4	48.6	
Pediatrics	48.2 (286)	48.9*	48.2	
?sychiatry	47.9 (319)	48.4*	47.8	
Radiology	48.4 (195)	49.6*	48.2	
Anesthesiology	47.5 (182)	49.0*	47.3	
Other	47.7 (407)	46.3	47.8	

^{() =} Number of observations

Sources: 5

AVERAGE NUMBER OF TOTAL PATIENTS VISITS PER WEEK
BY SPECIALTY AND LOCATION, 1970

		Location		
SPECIALTY	Total	Non-Metropolitan	Matropolitan	
Total	132.5 (43/2)	174.8	124.4	
General Practice	172.9 (961)	210.8	154.0	
Internal Medicine	122.6 (722)	163.9	113.7	
Surgery .	122.2 (994)	155.8	117.6	
Obstetrics-Gynecology	132.8 (301)	149.1	130.3	
Pediatrics	145.2 (282)	161.2*	143.4	
Psychiatry	54.6 (317)	53.9*	54.6	
Radiology	233.9 (176)	168.0*	242.9	
Anesthesiology	48.4 (167)	56.5*	47.4	
Other	122.7 (422)	141.4	119.9	

^{() =} Number of observations.

Walsh, Robert J., Phil Aherne and George A. Ryan, <u>The Profile of Medical Practice</u>, 1972 edition, American Medical Association, Chicago, Illinois 1972.



^{* -} Based on fewer than 30 observations.

^{* -} Based on fewer than 30 observations

Source: 5

AVERAGE NUMBER OF HOURS PRACTICED PER WEEK BY SPECIALTY AND LOCATION, 1970

		Location		
Specialty	Total	Non-Metropolitan	Metropolitan	
Total	51.4 (4258)	54.2	50.8	
General Practice	52.1 (928)	56.1	<i>5</i> 0.1	
Internal Medicine	51.6 (693)	54.4	51.3	
Surgery	53.2 (965)	54.6	53.0	
Obstetrics-Gynecology	55.1 (292)	56.5	54.9	
Pediatrics	51.7 (273)	54.5*	51.3	
Psychiatry	47.1 (314)	46.4*	47.1	
Radiology	47.4 (188)	45.7*	47.6	
Anesthesiology	53.2 (173)	51.4*	53.4	
Other	46.6 (432)	47.4	46.5	

^{() =} Number of observations

Source: 5

Walsh, Robert J., Phil Aherne and George A. Ryan, The Profile of Medical Practice, 1972 Edition, American Medical Association, Chicago, Ill., 1972

AVERAGE NUMBER OF HOURS OF DIRECT PATIENT CARE PER WEEK BY SPECIALTY AND LOCATION, 1970

		I	Location	
Specialty	Total	Non-Metropolitian	Metropolita	
Total	44.7 (4374)	48.9	43.9	
General Practice	47.7 (954)	51.3	45.8	
Internal Medicine	45.5 (721)	49.7	45.1	
Surgery	47.2 (995)	49.9	46.8	
Obstetrics-Gynecolo	gy49.9 (298)	52.0	49.6	
ediatrics:	45.9 (282)	49.4*	45.5	
Psychiatry	37.3 (316)	33.9*	37.4	
Radiology	34.5 (190)	35.5*	34.4	
Anesthesiology	46.8 (180)	45.8*	46.9	
Other	35.6 (438)	40.6	34.9	

^{* -} Based on fewer than 30 observations.

RESIDENCY POSITIONS OFFERED IN LOUISIANA BY SPECIALTY FOR 1970-71 AND 1972-731

		No. of Residency Positions Offered in Louisiana 1972-1973 (all years)	No. Residency Positions Offered in Louisiana 1970-1971 (all years)
1.	Anesthesiology	26	26
2.	Aerospace Medicine	0	0
3.	Child Psychiatry	14	5
4.	Colon and Rectal Surgery		2
5.	Dermatology	12	12
6.	Family Practice	18 ²	0
7.	Forensic Pathology	0	0
8.	General Practice		24
9.	Internal Medicine	131	110
10.	Neurological Surgery	8	6
11.	Neurology	11	9
12.	Obstetrics & Gynecology	64	67
13.	Occupational Medicine	0	O
14.	Ophthalmoloy	41	43
15.	Orthopedic Surgery	50	61
16.	Otolaryngology	34	28
17.	Pathology	44	35
18.	Pediatric Allergy	2	0
19.	Pediatrics		47
20.	Pediatric Cardiology		4
21.	Physical Medicine & Rehabilitation .	0	0
22.	Plastic Surgery		73
23.	Preventive Medicine	• -	
24.	Psychiatry	43	56
25.	Public Health		0
25.	Radiology		49
27.	Radiology, Diagnostic		0
28.	Radiology, The rapeutic		0
29.	Surgery	115	119
30.	Thoracic Surgery	• •	6
31.	Urology	44	27
	Total	767	743

Directory of Approved Internships and Residencies 1969-1970 and Directory of Approved Internships and Residencies 1971-1972, AMA. Tabulations include all approved non-federal and VA positions.



² Thelve (12) additional family practice residency positions have the superiod and will be offered over a three year period.

Approved program at Tulane, number not given.

DISTRIBUTION OF NON-FEDERAL PHYSICIANS* GRADUATED FROM LOUISIANA STATE INSTITUTIONS BY AGE--DECEMBER 31, 1972

Age	Frequency	Percent
Under 25	1	0.0
25 - 29	166	2.3
30 - 34	576	8.1
35 - 39	961	13.6
40 - 44	1011	14.3
45 - 49	1115	15.7
50 - 54	1023	14.4
55 - 59	843	11.9
60 - 64	571	8.1
65 - 69	342	4.8
70 - 74	206	2.9
75 - 79	140	2.0
80 - 84	77	1.1
85 & above	53	0.7
	7085	100.0

^{*} Excludes Interns and Residents



DISTRIBUTION OF MEDICAL GRADUATES FROM LOUISIANA STATE INSTITUTIONS WHO ARE CURRENTLY INTERNS AND RESIDENTS BY AGE--DECEMBER 31, 1972

BEST COPY AVAILABLE

	Current	Resident	Current	Intern		
Age	Frequency	Per Cent	Frequency	Per Cent	Total	Per Cen
24 & under	1	.1	4	1.8	5	0.5
25 - 29	445	51.4	201	92.2	646	59.6
30 - 34	349	40.3	12	5.5	361	33.3
35 - 39	46	5.3	1	0.5	47	4.3
40 - 44	14	1.6	0	0.0	14	1.3
45 - 49	9	1.0	0	0.0	. 9	0.8
50 - 54	0	0.0	0	0.0	0	0.0
55 - 59	2	0.2	0	0.0	. 2	0.2
60 & above	0	0.0	0	0.0	0	0.0
Total	866	100.0	218	100.0	1084	100.0
Percents	79.9		20.1		100.0	

DISTRIBUTION OF PHYSICIANS GRADUATED FROM LOUISIANA STATE INSTITUTION BY CITIZENSHIP - DECEMBER 31, 1972

	Non-Federal Physician	Federal Physician	Interned Residents	Total
U.S. Citizen	6940	627	1069	8636
Immigrants	17	2	3	22
Others	128	4	13	145
Total	7085	633	1085	8803



DISTRIBUTION OF NON FEDERAL PHYSICIANS* IN LOUISIANA BY SECTOR OF EMPLOYMENT AND AGE - DECEMBER 31, 1972

AGE	IRF TR	AINEE	PHYSICI	ANS	TO	TAL
	Frequency	Per Cent	Frequency	Per Cent	Frequency	Per Cent
24 and under	3	0.0	1	.008	0 .	0.1
25 - 29	387	57.761	133	3.377	4	11.3
30 - 34	234	48.358	427	10.843	520	14.3
35 - 39	30	4.478	582	14.779	661	13.3
40 - 44	08	1.194	604	15.338	612	13.3
45 - 49	06	.896	590	14.982	612	12.9
50 - 54	01	•149	490	12.443	596	10.7
55 - 59	01	.149	410	10.411	491	8.9
60 - 64	00	0.0	269	6.831	269	5.8
64 - 69	00	0.0	178	4.520	178	3.9
70 - 74	00	0.0	100	2.539	100	2.2
74 - 79	00	0.0	71	1.803	71	1.5
80 and above	00	0.0	83	2.108	83	1.8
Totals	670	100.000	3938	100.000	4608	100.0
Per Cents	13	.4	79.	0		

DISTRIBUTION OF NON-FEDERAL OFFICE-BASED PHYSICIANS IN LOUISIANA BY STATE OF GRADUATION AND YEAR OF GRADUATION--DECEMBER 31, 1972

OFFICE BASED PRACTICE

Year of		siana uates	Other State Graduates		
Graduation	Frequency	Percent	Frequency	Percent	
Up to 1919	21	72.4%	8	27.6%	
1920 - 1929	88	74.0%	31	26.0%	
1930 - 1939	265	71.0%	108	29.0%	
1940 - 1944	337	78.7%	91	21.3%	
1945 - 1949	272	72.5%	103	27.5%	
1950 - 1954	375	78.0%	106	22.0%	
1955 - 1959	410	81.8%	91	18.2%	
1960 - 1964	344	74.1%	120	25.9%	
1965 - 1969	137	78.7%	37	21.3%	
1970 - above	14	66.7%	07	33.3%	
Totals	2263		702		

DISTRIBUTION OF NON-FEDERAL PHYSICIANS* GRADUATED FROM LOUISIANA STATE INSTITUTIONS BY MAJOR PROFESSIONAL ACTIVITY, STATE OF PRACTICE AND YEAR OF GRADUATION

OFFICE BASED PRACTICE

Year of		siana uates	Other S Gradus	•	
Graduation	Frequency	Percent	Frequency	Percent	
Up to 1919	20	41.7%	28	58.3%	
1920 - 1929	88	34.5%	167	65.5%	
1930 - 1949	265	34.1%	512	65.9%	
1950 - 1954	375	41.7%	524	58.3%	
1955 - 1959	410	43.8%	526	56.2%	
1960 - 1964	344	44.9%	422	55.1%	
1965 - 1969	137	52.1%	126	47.9%	
1970 -	14	51.9%	13	48.1%	
Subtotals	2262	40.1%	3379	59.9%	
Total				5641	Ĺ

^{*} Excludes Interns, Residents





BEST COPY AVAILABLE

STATEWIDE PLANNING FOR PHYSICIAN RESIDENCY PROGRAMS

ROOM 114, 150 RIVERSIDE MALL BATON ROUGE, LOUISIANA 70801

501 389-6201



Louisiana Regio: Medical Progr

Meridepartmental Health Mice Commission

COMMITTEE MEMBERS

MURRY A DIAMOND, M.D. Touro fishirmery New Orleans, Louisiene

EDGAR C. GALLOWAY, M.O. Confederate Memorial Medical Center Spreyeport, Louisiana

EDWARD HARRELL, M.D. Louisiene State Medical Society Lafayette, Louisiana

MERRILL O. HINES, M.D. Otherer Clinic New Orleans, Louisiana

GEORGE W. HOBSON, M.D. Veterans Administration Hospital New Orleans, Louisiana

CHARLES C. MARY, JR., M.D. Charity Prospital of Louisiana New Orleans, Louisiana

W. W. Mi DOUGALL Health Education Authority of Louisiana New Orleans, Louisiana

JOSEPH SARATIER, JR., M.D., Louisiana Regional Medical Program New Orleans, Louisiana

ROBERT W SAPPENFIELD M.D. Chairman New Orleans, Louisiana

M. K. SWEENEY
Louis and State Department of Mospitals
Baton Rouge, Louisiana

WILLIAM H. STEWART, M.D. Louisiana State University Medical Center New Orleans, Louisiana

> RAMSON VIDRINE, M.D. Louisiane State Board of Health New Enfects: Louisiane

JOHN WALSH, M.D.
Tulane University School of Medicine
New Orleans, Louisiana

RAYMOND C. WILSON Southern Baptist Hospital New Orleans, Louisiana

STATEWIDE PLANNING FOR PHYSICIAN RESIDENCIES (Senior Medical Student Interviews)

Med	ical School _				
Age					
Marı	ried Ne	ever Married	Divorced Wid	lowed	
Ch1	ldren N	Number Age(s)			
You	r hometown	city	cts	at e	
Spo	use's nometown	city	C.F.	2 t 4)	
		crty	250		
Loc	ation of pre-m	ned studies	university	city	
Loc Any	member of you	ned studiesur family (including	university first cousins) hav	city ve an M.D. degree	
Loc Any	member of you	ned studies	university first cousins) hav	city ve an M.D. degree	
Loc Any	member of you What relation (1) Living or de	ned studies or family (including on to you (2)	university first cousins) hav (3)	city ve an M.D. degree (4)	
Local Any (a)	member of you What relation (1) Living or de (1) What special	ned studies or family (including on to you (2) eceased (2)	university first cousins) hav (3)(3)	city ve an M.D. degree (4) (4)	
(a) (b) (c)	member of you What relation (1) Living or de (1) What special (1) Location of	ned studies ur family (including on to you (2) eceased (2) lty (2) practice	university first cousins) hav (3)(3)(3)	city ve an M.D. degree (4) (4) (4)	
(a) (b) (c)	member of you What relation (1) Living or de (1) What special (1) Location of Which (if an present, or	ned studies ur family (including on to you (2) eceased (2) lty (2)	university first cousins) hav (3) (3) (3) (3) members have had as your own medical or series and series are series.	city ve an M.D. degree (4) (4) (4) n influence on the careers?	e past,



•	. What do you plan to do?						
	(a) Pursue internship training						
	(b) Enter directly into residency training						
10	. Have you decided on a geographic location for your in	nternship or residency training?					
	(a) Yes						
	(b) No						
1	l. Do you wish to remain in Louisiana for your training?	?					
	(a) Yes						
	(b) No						
	(c) Undecided						
1:	2. Have you selected a "specialty" to pursue in your med	lical training?					
	(a) Yes (If "Yes" go on to next question)						
	(b) No						
	Which specialty?						
	(c)						
1	3. How did medical school influence your decision regard areas of family practice, pediatrics, and internal me	• •					
	(a) Favorable towards general practice						
	(b) Unfavorable towards general practice						
	(c) No influence						
. 14	What factors influenced or will influence your decisi internship (residency) training?	lon of where you wish to pursue					
1:	5. I am going to read you a list of factors that might be Please rank these as:	nave influenced your decision.					
	major influence = 1 contributing influence = 2 minor or no influence = 3						
•	(a) Reputation of specialty programs or director	(i) Spouse working here					
	(b) Prestige of institution	(j) Job opportunities for wife					
	(c) Impressed at interview with staff	(k) Other economic reasons					
	(d) Impressed with facilities	(1) Did not wish to move family					
Ži	(e) Geographic location	(m) Your family or spouse's					
,	(f) Recreational facilities (for you or family)	family living nearby					
	(g) Cultural resources (for you or family)	(n) Good education for children					
ERIC	(h) Salary	(o) Change of scenery					

16.	Have you decided on a geographic loc	ation for your ful	ture prac	tice?
	(a) Yes			
•	(b) No			
17.	Will you remain in Louisiana to cond	duct your future p	ractice?	
	(a) Yes			
	(b) No			
	(c) Haven't decided			
18.	If you haven't selected a geographic to a few areas?	c practice area, h	ave you n	arrowed your choice
	Yes (If "Yes" go to next	t question)		
	No			
	What states are you considering?			
	(a)			
	(b)			
	(c)			
19.	What size community most interests practice?	you as the type of	location	for your future
	(a) Metropolitan			
	(b) Small city			
	(c) Rural area			
20.	What factors influenced or will inf	luence your choice	of locat	ion for practice:
21.	Please rank these as: major influen contributing			
	(a) Recreational activities		(g)	Desire to remain involved in academia
	(b) Planning to join practice of or family	of friend	(h)	Favorable climate
	(c) Non-professional family tie	es (including		Desired community size Most favorable geographic
	(d) Healthy climate to raise fa	mily	(J)	area of location
	(e) Educational opportunities i		(k)	Financial opportunities
	(f) Attraction of location for			Cultural resources
	(4)	•	*	



22.	Will you use the AMA location service of If yes, which one	r any other location service?YesNo					
23.	What type of practice do you plan to enter?						
	(a) Solo	(d) Single disciplinary group					
	(b) Partnership	(e) Multispecialty group					
	(c) Association	(f) Government service					
24.	What method of payment do you prefer?						
	(a) Prepaid	(b) Fee for service					
25.	What makes, or would have to be changed practice?	, to make Louisiana attractive to you for					
26.		or improvement of residency programs, higher deas concerning correction of geographic and shortage areas of Louisiana).					
27.	Any comments?						
28.	How could we better collect this intorm	ation?					



STATEWIDE PLANNING FOR PHYSICIAN RESIDENCIES (Internahip Interviews)

1.	Internship Location							
		hospi		hospita	1	city		
2.	Age_							
3.	Meri	riedNe	ver Married	Divorced_	Widowed	_		
4.	Chil	ldrenN	umberAge	(s)		<u> </u>		
					state			
			city		state			
6.	Spot	use's homet	OWID_		state			
_	_	_	city		state			
7.	Loca	stion of pr	e-med studies		rsity			
0	.		• . • • • •	unive	reity	city	state	
8.	FOCT	stion or gr	aduating medic	cal school	miversity	city	state	
						ve en M.D. degree		
•			tion to you	ructuaring 11	ist constast de	Ag en u'n' gelles		
	(=)		•		40.			
					(3)	(4)	_	
	(p)	Living or	deceased					
		(1)	(2)_		(3)	(4)		
	(c)	What spec	ialty					
		(1)	(2)		(3)	(4)		
	(d)						_	
	(e)	Which (if		e family mem	bers have had a	n influence on the past	, present,	
						(4)		
	(f)		y have they				_	



or factor = 1, contributing factor = 2, minor or r _(a) Reputation of specialty programs or director _(b) Prestige of institution _(c) Impressed at interview with staff	no factor	
_(a) Reputation of specialty programs or director _(b) Prestige of institution	(i)	
_(b) Prestige of institution		
	(1)	Job opportunities for wife
		Other economic reasons
_(d) Impressed with facilities	(1)	Did not wish to move family
	(a)	Your family or spouse's fami
(f) Recreational facilities (for you or family)		living nearby
(g) Cultural resources (for you or family)	(n)	Good education for children
(h) Salary	(0)	Change of scenery
*		
do you feel are the strangths of your intermelia	nyaanan (chack atrenuths)
-	-	High quality support service
		(nurses, etc.)
	(m)	Hours of work
	(n)	Good schedule of nights on-
	(o)	University connection
	(p)	Opportunity for independent
-	(q)	research Highly organized educational program
_(h) Excellence of supervision	(~ \	Loosely organized educations
_(i) Relationship with teaching staff		program
_(j) Contact with high level teaching staff		Living facilities
_(k) Excellence of fellow residents (oppor-	(t)	Moonlighting opportunities
tunity for ideal exchanges)	(u)	Potential for eventual pract location
	do you feel are the strengths of your internship (a) Coordination of Departments (b) Homogeneous patient population (c) Heterogeneous patient population (d) Variety of clinical experience (e) Large volume of clinical experience (f) Salary (g) Opportunity to excercise independent	(f) Recreational facilities (for you or family) (g) Cultural resources (for you or family) (h) Salary (o) to you feel are the strengths of your internship program ((a) Coordination of Departments (b) Homogeneous patient population (c) Heterogeneous patient population (d) Variety of clinical experience (e) Large volume of clinical experience (f) Salary (g) Opportunity to excercise independent judgement (h) Excellence of supervision (i) Relationship with teaching staff (j) Contact with high level teaching staff (k) Excellence of fellow residents (oppor-



13	What do you consider to be the weaknesses of your internship program							
	(a) Lack of departs	ment coordination	(m)	Hours of work				
	(b) Homogeneous par	tient population	(n)	Poor schedule of nights	on-			
	(c) Heterogeneous	patient population		call				
	(d) Lack of variety	y of clinical experienc	ee(o)	Excessive scut work				
	(e) Small volume of	f clinical experience	(p)	Compulsory scut-level re	sea:			
	(f) Salary		(q)	Too many nights on-call				
	(8) Not enough oppoint independent just		(r)	Highly organized educati programs	ona Î			
	(h) Leck of superv	ision		Loosely organized educat programs	ion]			
	(i) Poor relations	-	(E)	Living facilities not av	eil			
	(j) Lack of contact	t with high level teac	hing(u)	No moonlighting opportun	iti			
	(k) Lack of excelle	ence in fellow resident	(v)	Lack of potential for every practice location	ent'			
	Otner							
14.	(a) Have you decided the	e geographic location of	of your practice	(yes)(no)				
	(b) If yes, where							
	/a\ Ya +b.ta	state		•				
	(c) Is this a large		-					
	(d) If you haven't selected a specific practice area, have you narrowed the choice down to a few areas (yes) (no)							
	(e) If yes, how many and	i in what states						
	(1)	metropolitan						
	state	_	small city	rural				
	(2)state	metropolitan	small city	rural				
	(3)							
	state	metropolitan	small city	rural				
	(4)	-						
	state	metropolitan	small city	rural				



	What factors influenced or will influence your choice (major factor = 1, contributing factor = 2, minor f	2000m am af ma J
	(a) Recreational activities	
		(g) Desir to remain involved in academia
	(b) Planning to join practice of friend or family	(h) Favorable climate
	(c) Non-professional family ties (including	(1) Desired community size
	spouse's family)(d) Healthy climate to raise family	(j) Most favorable geographic
	-	area of location
	(e) Educational opportunities for children	(k) Financial opportunities
	(f) Attraction of location for spouse	(1) Cultural resources
	Other	
	Did you use the AMA location service or any other 1	ocation service (yes) (no)
	If yes, which one	
		والمراجع والمراجع المراجع المراجع فيهوا المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع
6.	What type of practice do you plan to enter	
6.	What type of practice do you plan to enter (a)solo	single disciplinary group
6.	(a)solo	single disciplinary group
5.	(a)solo pertnership	multispecialty group
5.	(a)solo	
5.	(a)solo pertnership	multispecialty group
7.	(a)solo partnership association	
	(a)solopartnershipassociation (b) prepaid	
	(a)solopartnershipassociation (b) prepaid	
	(a)solopartnershipassociation (b) prepaid	



.... Any comments

20. How could we better collect this information

STATEWIDE PLANNING FOR PHYSICIAN RESIDENCIES (First Year Resident Interviews)

i.	Resi	dency Location				
		_	hosp	ital	VI V VIV V V V V V V V V V V V V V V V	city
2.	Spec	ialty (or subspec	ialty)	ميواني ويدران والمشارب المشارب المساور		
3.	Age_					
4.	Marr	iedNever Mar	riedDi	vorcedWido	wed	
5.	Chil	.drenNumber_	Age(s)			
6.	Your	hometown		<u> </u>		
7.	Spou	se's hometown				ė
_	_		lty	Sta	te	
8.	Loca	tion of pre-med s	tudiesuni	versity	city	state
9.	T.oca	tion of graduatin		•		
•	2010	and he beares.		universit	y city	state
0.	Loca	tion of internshi	ip (if appli	cable)		
				hospita	l city	state
	Any	member of your fa	emily (inclu	ding first cous	ins) have an M.D. deg	gree
	(a)	What relation to	you			
		(1)	(2)	(3)	(4)	
	(b)					•
		(1)	(2)	(3)	(4)	
	(c)					
		(1)		(3)	(4)	
	(d)	Location of Prac				
	(e)		of these fam	ily members hav	e had an influence or	n the past, present,
			-		(4)	
	(f)				· · · · · · · · · · · · · · · · · · ·	•



12.	To how many programs did you apply for residency train	ning					
	low many of these programs accepted you	•					
13.	What factors prompted you to pursue residency training	g atname of institution					
	(major factor = 1, contributing factor = 2, minor or no factor = 3)						
	(a) Reputation of specialty programs or director						
	(b) Prestige of institution	(j) Job opportunities for wife					
	(c) Impressed at interview with staff	(k) Other economic reasons					
	(d) Impressed with facilities	(1) Did not wish to move family					
	(e) Geographic location	(m) Your family or spouse's famil					
	(f) Recreational facilities (for you or family)	living nearby					
	(g) Cultural resources (for you or family)	(n) Good education for children					
	(h) Salary	(o) Change of scenery					
	Other						
14.	What do you feel are the strengths of your residency (a) Coordination of Departments						
	(b) Homogeneous patient population	(m) Hours of work					
	(c) Heterogeneous patient population (d) Variety of clinical experience	(n) Good schedule of nights on-ca					
	(e) Large volume of clinical experience	(o) University connection					
	(f) Salary	(p) Opportunity for independent research					
	(g) Opportunity to excercise independent judgement	(q) Highly organized educational program					
	(h) Excellence of supervision	(r) Loosely organized educational					
	(i) Relationship with teaching staff	program					
	(j) Contact with high level teaching staff	(s) Living facilities					
	(k) Excellence of fellow residents (opportunity for ideal exchanges)	(t) Moonlighting opportunities (u) Potential for eventual praction					
	Other	•					



What	do you consider to be the weaknesses of your	residency pro	ogram				
	(a) Lack of department coordination	(m)	Hours of work				
	(b) Homogeneous patient population	(n)	Poor schedule of nights on-				
	(c) Heterogeneous patient population	4.5	call				
	(d) Lack of variety of clinical experience		Excessive scut work				
	(e) Small volume of clinical experience		Compulsory scut-level research				
	(f) Salary		Too many nights on-call				
	independent judgement (h) Lack of supervision		Highly organized educational programs				
		(s)	Loosely organized educational programs				
	- '	(t)	Living facilities not availab				
	(j) Lack of contact with high level teaching staff		No moonlighting opportunities				
«	(k) Lack of excellence in fellow residents	(v)	Lack of potential for eventua practice location				
	(1) Low quality support services (nurses, etc						
(a) :	Have you decided the geographic location of you	our practice	(yes)(no)				
(b)	If yes, where						
		rea, nave you	I Natiowed the choice down				
(e)	If yes, how many and in what states						
	(1) state metropolitan s	mall city	rural				
		mall city	rural				
	•	•					
	state metropolitan s	mall city					
	Pfafe mestakarren	marr crea	rural				
	(a) 1 (b) 3 (c) (d) (e)	(a) Lack of department coordination (b) Homogeneous patient population (c) Heterogeneous patient population (d) Lack of variety of clinical experience (e) Small volume of clinical experience (f) Salary (g) Not enough opportunity to exercise independent judgement (h) Lack of supervision (i) Poor relationship with teaching staff (j) Lack of contact with high level teaching staff (k) Lack of excellence in fellow residents (l) Low quality support services (nurses, etc.) Other (a) Have you decided the geographic location of you haven't selected a specific practice at to a few areas (yes)	(b) Homogeneous patient population (n) (c) Heterogeneous patient population (o) (d) Lack of variety of clinical experience (p) (e) Small volume of clinical experience (q) (f) Salary (q) (g) Not enough opportunity to exercise independent judgement (s) (i) Poor relationship with teaching staff (t) (j) Lack of contact with high level teaching (u) staff (k) (k) Lack of excellence in fellow residents (v) (l) Low quality support services (nurses, etc.) Other (a) Have you decided the geographic location of your practice (b) If yes, where state (c) Is this a large metropolitan area small city or to a few areas (yes) (no) (e) If yes, how many and in what states (1) state metropolitan small city (2) state metropolitan small city (3)				



17.	What factors influenced or will influence your cho	pice of location for practice
	(major factor = 1, contributing factor = 2, minor	factor or of no importance = 3)
	(a) Recreational activities	(g) Desire to remain involved in academia
	(b) Planning to join practice of friend	(h) Favorable climate
	or family	
	(c) Non-professional family ties (including spouse's family)	(i) Desired community size (j) Most favorable geographica
	(d) Healthy climate to raise family	area of location
	(e) Educational opportunities for children	(k) Financial opportunities
	(f) Attraction of location for spouse	(1) Cultural resources
	Other	
	Did you use the AMA location service or any other	location service (yes) (no)
	If yes, which one	
10	What type of practice do you plan to enter	
18.		single disciplinary group
	(a)solo	multispecialty group
	partnership	government service
	association	
	(b) prepaid	fee for service
19.	What makes, or would have to be changed, to make	Louisiana attractive to you for practice
20.	Additional comments (i.e. suggestion for improver tention of physicians in Louisiana, ideas concern specialty maldistribution in physician shortage	ning correction of geographic and



21. Any comments

22. How could we better collect this information

MM:e November 7, 1972



STATEWIDE PLANNING FOR PHYSICIAN RESIDENCIES (Final Year Resident Interviews)

residench moc	ation			
	hospit	al		city
Specialty (or	subspecialty)			
Age				
MarriedN	ever MarriedDiv	orcedWidowed		
Children	NumberAge(s)			
Your hometown		-	maran di sa	
	city	state		•
Spouse's home	city	# baba		
Location of F	ra-mad studiesuniv	ersity	city	state
recarron or 9	reducting medical sc	university	city	state
Location of i	nternship (if applic	able)		
		•		state
Any member of	your family (includ	ing first cousins)	have an M.D. deg	ree
(a) What rel				
(1)	(2)	(3)	(4)	
(b) Living	or deceased			
(1)	(2)	(3)	(4)	
(c) What spe				
-	(2)	(3)	.(4)	
	of Practice			
• •	if any) of these fami	ly members have ha	d an influence or	the past, present,
or futu	re direction of your	own medical career		
(1)	(2)	(3)	(4)	
• • • • • • • • • • • • • • • • • • • •	way have they influe			



Wes	(name of training	institution)	olce as a	training program?
If n	ot, how did it ran	k among programs to which you ap	plied? _	
i.Th.o.e	feators influence	d your decision to pursue reside	ncv train	nine at
WIIGL	18CLOIS INTIGENCE	d your decision to paroual tooks		(institution)
	going to read you se rank these as:	a list of fectors that might ha	ive influ	enced your decision.
		major influence = 1 contributing influence = 2 minor or no influence = 3		
_	(a) Reputation of	specialty programs or director	(1)	Spouse working here
	(b) Prestige of i			Job opportunities for wife
	-	interview with staff	(k)	Other economic reasons
	(d) Impressed wit			Did not wish to move family
	(e) Geographic lo		(m)	Your family or spouse's
		facilities (for you or family)	<u></u>	family living nearby
		ources (for you or family)	(n)	Good education for children
	(h) Salary	• • •	(0)	Change of scenery
Othe				
		·		
That	do you feel are	the strengths of your residency	program?	
	The second secon			
·				
I or	n going to read you strengths of your	another list. Please respond residency training.	to the fa	ctors you feel represent
	_(a) Coordination	of Departments	(1)	High quality support services (nurses, etc.)
		patient population	(m)	Hours of work
-		s patient population linical experience	(n)	Good schedule of nights on
		of clinical experience		University connection
		or citurear exherience		Opportunity for independen
	_(f) Salary		(Y)	research



(j) Contact with(k) Excellence of tunity for i Other What do you consider I am going to read you factors you feel repr	with teaching staff high level teaching staff f fellow residents (oppor- deal exchanges) to be the weaknesses of your esent the weaknesses of your extment coordination	residency prolong one. Places	ogram? ease respond to the
(j) Contact with (k) Excellence of tunity for it other I am going to read you factors you feel reproduct to the contact of	high level teaching staff f fellow residents (oppor- deal exchanges) to be the weaknesses of your esent the weaknesses of your extraction	residency prolong one. Placesidency processidency procession processidency procession processidency procession processidency processidency processidency processidency pro	Living facilities Moonlighting opportunities Potential for eventual practice location ogram? ease respond to the ogram
(k) Excellence of tunity for it other That do you consider I am going to read you factors you feel reproduced to the consider of the consideration of the	f fellow residents (oppordeal exchanges) to be the weaknesses of your ou a list similar to the prevenent the weaknesses of your extractor coordination	residency prolong one. Placesidency pr	Potential for eventual practice location ogram? ease respond to the ogram
tunity for in the consider That do you consider I am going to read you factors you feel reproduced to the consider of the consideration	to be the weaknesses of your ou a list similar to the prevenent the weaknesses of your extractor coordination	residency prolong to the sidency property procession of the sidency pr	ogram? esse respond to the ogram
I am going to read you factors you feel report (a) Lack of departments	to be the weaknesses of your ou a list similar to the prevenent the weaknesses of your ortment coordination	residency prolong to the sidency property procession of the sidency pr	ogram? ease respond to the ogram
I am going to read you factors you feel reproduced to the control of the control	ou a list similar to the previous the weaknesses of your extrement coordination	lous one. Pl residency pr	ease respond to the ogram
factors you feel repr (a) Lack of depa (b) Homogeneous	ou a list similar to the previous the weaknesses of your artment coordination	lous one. Pl residency pr	ease respond to the ogram
(c) Heterogeneou		(n)	Poor schedule of nights on call
		(0)	Excessive scut work
	ety of clinical experience		Compulsory scut-level resear
· ———	e of clinical experience		
(f) Salary			Too meny nights on cali
(g) Not enough (independent	opportunity to exercise judgment	(r)	Highly organized educational programs
(h) Lack of supe	ervision	(s)	Loosely organized educations programs
(i) Poor relation	onship with teaching staff	(t)	Living facilities not availa
	set with high level teaching	(u)	No moonlighting opportunitie
(k) Lack of exc	ellence in fellow residents	(v)	Lack of potential for
		c.)	Eventual production
staff (k) Lack of exc	ellence in fellow residents support services (nurses, et	(v)	No moonlighting opportun Lack of potential for eventual practice locati



(a) Yes	geographic location for your fu	tale personal
		
(b) No		
Will you remain in Lo	uisiana to conduct your future [practice?
(a) Yes		
(b) No		
(c) Haven't deci	ded	
What size community m	ost interests you as the type o	f location for your future practice?
(a) Metropolitan		
(b) Small city		
(c) Rural area		
If you haven't select to a few areas?	ed a geographic practice area,	have you narrowed your choice
Yes (If "	Yes" go to next question)	
No		
What states are you c	onsidering?	
What factors influence	ed or will influence your choic	e of location for practice?
What factors influence	ed or will influence your choic	e of location for practice?
	ou a list of factors that might	
I am going to read yo	ou a list of factors that might	
I am going to read yo	major influence = 1 contributing influence = 2 minor or no influence = 3	have influenced your decision. (g) Desire to remain involved
I am going to read your Please rank these as: (a) Recreational(b) Planning to	major influence = 1 contributing influence = 2 minor or no influence = 3	have influenced your decision. (g) Desire to remain involved in academia
I am going to read your Please rank these as: (a) Recreational(b) Planning to or family	major influence = 1 contributing influence = 2 minor or no influence = 3 activities join practice of friend	have influenced your decision. (g) Desire to remain involved in academia(h) Favorable climate
I am going to read your Please rank these as: (a) Recreational(b) Planning to or family	major influence = 1 contributing influence = 2 minor or no influence = 3 activities join practice of friend conal family ties (including	have influenced your decision. (g) Desire to remain involved in academia

ERIC Full feat Provided by ERIC

,	(d) Healthy climate to raise family(e) Educational opportunities for children(f) Attraction of location for spouse	(j) Most favorable geographic area of location (k) Financial opportunities (l) Cultural resources
27.	Did you use the AMA location servic e or any other loca	
	If yes, which one	
28.	Was your choice of specialty a major influence in your practice location?	selection of a geographic
29.	What type of practice do you plan to enter?	
	(a) Solo	(d) Single disciplinary group
	(b) Partnership	(e) Multispecialty group
	(c) Association	(f) Government service
	Did your choice of specialty influence this decision?	Yes No
30.	What method of payment do you prefer?	
	(a) Prepaid	(b) Fee for service
31.	What makes, or would have to be changed, to make Louis: practice?	iana attractive to you tor
32.	Additional comments (i.e., suggestions for improvement retention of physicians in Louisiana, ideas concerning specialty maldistribution in physician shortage areas	correction of geographic and
33.	Any comments?	
34.	How could we better collect this information?	