# INCOME AND EXPENSE RATIOS OF GENERAL HOSPITALS, 1951

By

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### FOREWORD

This analysis of variation in income and sequence ratios among opports short-rangement haughts was started in the shift of opports that the shift of the shift of the shift of Health Methods and the Commission on Financing of Hospital Carrview, Penneti and Miss Attenderfor are statisticated in this Division. At the time of the study Mr. Signoid was Director of Fiscal to the Albert Einstein Medical Carrent, Philsdelphia Dr. Albuna, formerly Chief Statistican of the Commission on Financing of Health Albert Einstein Medical Carrent, Philsdelphia Dr. Albuna, formerly Unket Statistican of the Commission on Financing of Health Albert Einstein Medical Carrent, Philsdelphia, Macharthan, Jac., New York Mittikian, Dubid Carberba Play Associations, Jac., New York Mittikian, Dubid Carberba Play Associa-

Some of the data will appear as part of the Commission's report, Volume III, "Factors Affecting the Cost of Hospital Care." Widespread interest in the problem of hospital finances has led to the preparation of the present brief report for simultaneous publication by the Public Health Service.

Grateful acknowledgment is made to the American Hospital Association for providing the data on which the study is based.

> G. St.J. Perrott, Chief Division of Public Health Methods

June 1954

# CONTENTS

## Page

Foreword	111
Material and method	1
Bed capacity and operating ratios	3
Deficit or surplus and operating ratios	9
Per diem expense and operating ratios	14
Scope of program and operating ratios	19
Summary and conclusions	25

## INCOME AND EXPENSE RATIOS OF GENERAL HOSPITALS, 1951

Much has been written in recent years about the financial pight pight care. The present report analyses some of the more pertinent factors have been dependent of the source of the source pertinent factors have been appendent of the source of the source have been appendent of the source of the source of the perturbation of the source of

#### Material and Method

The information on hospital income and expanse ratios was derived from basic data supplied by the American Mospital Association. The Association has, in the period since 1446, developed a sation, facilities, services, and infrance of foldwidth hospital-The resulting statistics, which are published each year in the Administrator's Guide issue of the Association's Journal, Hospitality have added greatly to existing knowledge shout American Inspitality of the flagses, however, has kinniske the analysis.

The present study, which is essentially a more detailed analysis of certain portions of the data collected by the American Hespital Association, was a cooperative project indertaken by the Commission on Pinancing of Hospital Care and the Division of Pinanci the Hahl Network of the American State of the American State (State 1) Education, and Weitare. The Association made its machine tabulation cards available for the analysis.

Only general hospitals caving for acute conditions, with an average length obtained tray of the same of days, are included in this study. Excluded are chronic direase and convaisacent hospitals that are also any start of the same of the same of the same and a hospitals, or for allied special hospitals that serve time pacial groups of the population (such as industrial and pedatric hospitals and aclocal infirmatics) or that limit their services the hospitalist and school infirmatics) or that limit their services the population of the solution is observed and orthopic logarithm.

The majority of the short-term general hospitals are nonprofit, nongovernmental institutions as distinguished from hospitals under proprietary or under governmental control. To obtain data for a relatively homogeneous group, the proprietary and governmental hospitals have been excluded from the analysis. Since utilization of services of members of religious orders affects the operating expense of Catholic hospitals, institutions listed in the 1952 Directory of the Catholic Hospital Associations are also omitted.

About three-fourths of the hespitial, in replying to the American Hospital Association questionnaire, supplied all the key financial items required for this datalled analysis. These 1,515 hospitals account for 35 percent of the total number of beds in all nonprofit short-form general hospitals, since relative/number of the larger the Northeast region than in the North Central. South, and West.

The questionnaire used by the American Hospital Association asked that statistical data be reported for the year ended September 30, 1951, or for the most recent 12-month period. From the replies 10 rates have been computed for each hospital, as follows:

Occupancy rate	*	beds
Length of stay	-	365 x average daily census annual admissions
Total income per patient day	-	total income 365 x average daily census
Patient income per patient day	*	patient income 365 x average daily census
Percent patient income of total income	-	100 x patient income total income
Total expense per patient day		total expense 365 x average daily census
Payroll per patient day		payroll 365 x average daily census
Percent payroll of total expense	-	100 x payroll total expense
Full-time paid personnel per 100 patients per day	-	100 x personnel average dally census
Percent deficit or surplus of total expense		100 (income - expense) total expense

Variation in two of these ratios-rotal expense per patient day and percent deficit or surplus of total expense-hambeen rotated to wariation in the other eight ratios for groups of hospitals classified on the basis of bed capacity and number of services and facilities . Such analysis indicates the primary distinguishing characteristics of hospitals which have relatively high or relatively low per diem costs and of those which have deficits or aurplass. These ratios by themselves de not explain why costs are high or low or why deficits or surplasse score in specific hospitals. Detailed a tody of for that purposes. Analysis of variation anong groups of hospitals, howver, does provide a basis for development of important hospitals is own position. By which are individual hospital hospitals is own position.

## Bed Capacity and Operating Ratios

The important characteristics of large hospitals in comparison with small hospitals are high occupancy rates, long duration of stay, high per dism income and expense, and a large number of personnel in relation to patients. Surpluses are smaller and deficits are more prevalent among the large hospitals.

Average rates for nonprofit whort-term general hospitals are shown in table 1 for each of four hospital size groups: Less than 50 bedr, 50-99, 100-249, and 250 or more. Regional variation in these average is also shown in the table. The distribution of the hospitals for selected rates is illustrated in figure 1 and the percentages are included in table 2.

#### Occupancy Rate

The average occupancy rate for the group of reporting hospitals is 75 percent. The well-recognized fact that the occupancy rates of small hospitals tend to be lower than those of large hospitals receives further confirmation here in the increase in occupancy rate from 61 percent in hospitals with less than 50 beds to 79 percent in the hospitals with 250 beds or more.

These rates are average levels of occupancy and do not indicate the variations that appear amough hopitals even in the same size group. This spread in bed accupancy is illustrated in figure 1. Armong the hopitals will lists than 50 bed. I percent have accupancy rates under 40 and 3 percent have rates of 90 or higher. None of the hopitals in the largest size group have rates as flow as 40 but 15 for the two groups with lists than 100 beds, and 76-79 for the two groups of larger hopitals.

Hospitals in the North Central region have the highest average occupacy rate, 78 percentas compared with fopercent for hospitals in the Northcast region, 73 in the West, and 72 in the South. These differences a mong the regions are partly due to variation in the propertions of large and small hospitals. When size is held constant, high in occuratory rates and those in the South to rank low.

#### Average Length of Stay

The average length of time that patients stay in nonprofit shortterm general hospitals is 8.0 days, but there is very noticeable

	1	1			I	Intone per				day	
lied capacity and region	Number of hospi- tals	Occu- pency rate	A 1 0 (	rernge ength f stay days}	Total	Total Publ		other		Patien as percen of totel	t
Less than 50 hole	408	6.1	ł.	6.1	10.00	Ι.	1. 20				
fortheast	03	61.6	-	7.2	15.14	12	3.10	12:	8	22.4	•
Borth Central	176	63.1	1	6.A	16.72		3.93	1	19	04.6	
Nort .	99	55.0		3-9	15.57	13	3- <u>8</u> 2 -	1.0	8	93.2	
	10	29.9		212	11.94	Ľ	0.01	1.1	n.,	93.8	
50-99 beds	1-81	68.5	-	6.7	16.68		5.09	1.5	19	- 50.5	
Sorth Central	114	73.0		13	16.30	Lá	6.00	2.5	7	06.4	
South	127	63.4		5.0	15.08	H	3.00	11	2	92.8	
Seat	39	70.6		5.9	22.19	1	0.81	1.3	ă	93.0	
100-249 bods	473	76.3		7.6	19.0\ 17.29		1.7	5	90.8		
Sorth Control	187	70.2		8.A	17-92	P	5.98	1.9	5	09.1	•
South	100	79.0		7.4	19-33	Ľ	8.29	1.0	4	9h.6	
West	49	74.2		6.8	25.16	à	2.20	2.0	6	0.08	
350 or more beds	187	79.8		o. k	50.07				1		
Northeast	- 94	77.6	-1	8.4	80.28	Ť	5.22	6.0	21	80.0	
Borth Central	42	84.8		9.2	21.80	1	2.76	2.0	ŭ I	90.6	
Wart	30	70.9		8.2	20.64	1	1.62	- 2.4	2	87.9	
	1.7	11.8		7.4	59104	s	3.56	5.6	3	90.5	
	Ex	prnse p	17	patien	t day		2011-	time	Τ,	offett.	
hed capacity					Payre	11	pai	d	0	arplus	
and region	Test e1	94		0.00	8.0		per	100	l p	ercont	
				1000	1 of	m	patie	nta		10	
					tote	1	per	nay	e	xpense	
Less than 50 beds	\$14.61	3.7.6	3	\$6.93	1 32.5		15	5	1	+ 6.0	
Sorth Castral	19.57	7.8		6.73	54.2		76	8	-	+ 3.9	
South	16.63	6.0		2.2	23.9		14	0		► 5-9	
West	16.55	9.21		7.31	55.6		14	2		1 8.2	
50-99 bets	15.87	8.81		7.00	0.7		16				
Northeast	16.12	9.05	-	7.03	56.6	-	16	<u> </u>	-	1.1.6	
South	12.43	8.67		6.76	56.2		15	5	1	6.2	
West	20.94	12,25		8.60	52.6		10	2	1	5.7	
100-249 beds	10.00	10.00			1		- 1	·	1	2.9	
Northeast	17.65	10.13	-	1.01	+264	-			-	4.6	
North Central	18.22	10.63		7.99	1 90.1		12		- 2	6.1	
West	16.25	8.90		7.76	\$2.3	- 1	17	6 1	4	8.1	
	c3.00	14.22		9.66	59.5	1	210		4	5.4	
Sortheast	20.67	12.09	_	8.58	58.5	_	203			1.5	
North Central	\$2.08	12.92	1	2.57	1 58.2	T	20			1.0	
Bouth	19.26	10.26	1	9.00	1 51.3		206	1	1	3.4	
	24.49	15.19		9.30	62.0		216		4	6.3	

#### Table 1. Average rates for 1,515 nonprofit 1/ short-term general hospitals, by bed capacity and region: 1951

1/ Excludes Catholic and government hospitale.

variation with size of hospital. The sverage stay is 6.1 days in hospitals with less than 50 beds and 9.4 days in hospitals with 250 or more beds. This longer period variation the larger hospitals is probably an indication that the more applicated types of cases are cared for where specialized follities and services are available.

The range is average length of stay is from about 3 to 13 days (fig. 1). In the group of smallest hospitals only 7 percent have an average patient stay of 10 or more days, as compared with actifued of the largest hospitals. At the other and of the cole, 44 percent of the smallest hospitals show an average stay of less than 6 days as contrasted with noily 1 percent of the largest hospitals.

Average patient stay is markedly long in the hospitals in the bortheast region (5:1 days) are contrasted with that in hospitals in for the start of the start of the start of the country (7:8,7.0, and 6.7, days) and the start of the start of the start group. The hospitals with 250 or more bedon the Northeast region report the longest average period of hospitalization per patient, comparable size in the Wester than the start of the

## Income Per Patient Day

The hospitals in this study report an average of \$1,52.8 at http: while incomenty my patient day (or all its groups embedded, hospital patients of the study of the study of the study of the study study of the study of the study of the study of the study patient (the study of the study of the study of the study patient day both show increases from the smallest to the largest paper of the study of the study of the study of the study paper of the study of the study of the study of the study paper of the study of the study of the study of the study paper of the study of the study of the study of the study of the paper of the study of the stu

The spread in total income per patient day among the individual institutions in wide. Five percent of the hospitals have incomes of less than \$10 per patient day, while 11 percent receive \$24 or more. Among hospitals with less than 50 bods, 15 percent have incomes of the prove in comparison with nearly half of the largest hospitals. The prove concessively larger gains of the largest hospitals.

Income from patients per patient day, of course, shows the same pattern of variation with bed capacity as total income, since on the average it accounts for nearly nine-tenths of the total. One-sith of the hospitals report that patients are the only source of their of the shows and a badditional one-third of the hospitals derive at least of the one of the shows are sentirely developed on the shows and the of the shows are sentirely developed on the shows are shown as the of the shows are sentirely developed on the shows are shown as the shows are shown as a sentirely developed on the shows are shown as the shown are shown as the shows are shown as the shown





	Percent	of h	ospitals	by size
Income from patients as percent	Under	50-	100-	250 or
of total income	20	23	649	more
Total	100	100	100	100
100 percent	35	13	5	1
95.0 - 99.9	25	35	39	25
90.0 - 94.9	14	22	24	23
75.0 - 89.9	17	22	26	42
Less than 75.0	9	8	6	9

sources of income in comparison with 1 percent of the largest hospitals, as shown below:

Less than 10 percent of the hospitals in each size group derive as much as one-fourth of their income from sources other than patients.

Income per patient day is markedly high in the West because of the charges in the hospitals in the Pacific States. The average of \$24,26 in the West is based on \$26,34 in the Pacific and \$18,10 in the Mountain States. In the North Central region per dism income is \$19,39; in the Northeast, \$18,85; in the South, \$17,85, Per dism income is highest in the Pacific hospitals in every oise group.

Income from patients per patient day is \$22.07 in the West (\$23.91 in the Pacific States). It is \$41 lower in the North Central (\$23.91 in the Pacific States). It is \$41 lower in the North Central country. Respitate in the geographic divisions along the seatern seboard show the lowest resides of income from patients to total income , reflecting the limited structures of mary larger and older charitable contributions to voluntary heighting.

## Expense Per Patient Day

Per diem exprase for the hospitals in the study averages \$13.67. As size of hospital increases as of doe express per yation day, from an average of \$14.61 in hospitals with less than 30 beds to \$20.67 in those with 250 beds or merc. Per diem express increases at a slightly steeper rate than that for per diem income, with the result that the crease of income over express for erases with an increate the aggregate the hospitals in each hize proprior income in access of express. Por all less errouse combined the excess is 3.3 percent.

The distribution of hospitals according to total expense per patient day differs markedly among the four size groups (fig. 1). The interval with the most hospitals falls at \$12 to \$14 in the smallest size group, \$14 to \$16 in the next two groups, and at \$18 to \$20 in the largest hospitals.

Payroll is the major item of hospital expense, accounting for 57 percent of total expense, with a range from 52 to 58 percent among

	Suaber		Percent	by tel	W.	
No. 4	to		Long	T	T	1 300
MALO	bornt-	Tote1	+han	50-	100-	~ ,0
	tale		50	99	249	07
			- Com			FOR
All rates	1,515	100.0	100.0	100.0	100.0	100.0
ODCEPANCY RATE:						1
Loss then 40 norrest	76	6.0	1 13 2	1.11		
ho do	1.46	1 22	14.6	2.7	1.19	0
50.50	104	0.9	15.0	6.4	5-3	1.1
60.60	194	18.0	22.0	13.0	7.0	4.3
70,70	3.94	88.0	50.3	25.8	18.0	9.6
Po Po	1 22	50.5	15.2	85-3	33.0	35.4
00-09 ·····	809	19.1	7.9	14-3	28.1	32.6
90 OF EDFE	182	0.6	8.0	7.7	10.2	16.0
AVAILABLE LEMATH OF STAT						F
Lose than 5.0 days	158	10.4	23.6	12.0	3-3	0
5-9-3-9 ·····	225	14.8	80.6	20.6	9.7	1.1
6.0-6.9	310	20.5	22.4	25.8	19.7	5.9
7.4-7.9	331	21.8	15.4	17.1	32.5	20.3
8.0-8.9	200	13.2	5.9	12.6	10.2	19.2
9.0-9.9	785	8.1	4.21	7.0	8.0	18.2
10.0-10.9	86	5.7	1.0	2.8	6.6	18.7
11.0 or more	83	5.5	5.2	2.3	8.1	16.6
TOPAL INCOME PER PATIENT DAY:						1010
Lees than \$10.00	70	4.7	10.3	h.4	1.5	
\$10.00-\$11.99	112	7.6	15.0	0.1	1.7	0.6
\$12.00-\$13.99	211	14.1	17.8	17.6	10.0	1 8 6
\$14.00-\$15.99	350	17.7	10.0	10.0	16.1	
316.00-517.99	20.0	16.0	1 11 11	20.1	16.0	1.3.2
\$18.00-\$19.99	016	15 1	1 10 1	15 .7	10.9	13.9
820.00-821.09	197	8.5	1 33	44-1	10.2	10.8
\$22,00-\$21,99	101	6.7	1 321	2.0	11.2	1111
\$29.00 or some	160	11.1	3.0		. 2.1	11.2
PATIENT THOME PER PATIENT DAY:	100	****	1.9	- 101	13-9	10.7
Less then \$10.co	1.4					
\$10.00-\$11.00	103	9.9	17.0	27.0	4-2	1.6
\$19.00-\$13.00	210	11.0	12.0	18-9	0.0	4.8
\$1h co-\$15 oc	840	10.0	18.5	19.4	13.1	1.2.8
\$16 00-\$13 00	819	10.4	15-6	50.6	20.1	16.6
418 00-410 00	3221	17.1	11.0	19-0	19.9	19.8
490 00-101 00	147	9-7	1 7-0	5.9	11.8	19.3
199 00-103 00	107	7.2	3-51	4.9	20.1	12.3
491 00	22	3.9	5.7	1.91	6.8	5.3
TOTAL Personne THE DAMAGES AND	97 [	0.4	0.1	5-1	7.4	7.5
Loss then \$10.00						
kin on fail on		0.3	13.3	6.5	1.9	0
10.00-011.99 ·····	142	9.6	18.9	10.3 [	8.0	1.6
\$12.00-\$13.99 ·····	257	17.0	21.7	19.7	15.6	5.9
a10.00-815.99	875	18.1	16.7	81.8	19.0	15.5
510.00-517.99	21.9	14.5	10.8	14.8	17.4.1	15.0
510.00-519.99	178	11.7	7.0	11.9	13.5	17.6
de0.00-321.99	135	8.9	4.9	4.7	13.3	16.6
peer-00-823.99	93	6.1	8.8	4.0	7.6	12.8
pre-uo or more	188	8.0	5.9	5.6	9.7	16.0
PAYHOLL EXPENSE PER PATIENT DAY:						2,00
Less than \$5.00	101	6.7	15.2	5.1	3.0	0
92-00-92-99	210	7.3	11.0	10.1	5.7	11
\$5.00-\$6.99	180	21.9	18.6	11.01	8.6	3.2
\$7.00-\$7.99	223	14.7	15.9	10.4	11.6	11 9
\$8.00-\$8.99	193	12.7	12.0	1111	12.0	86
49.00-49.99	184	12.1	0.0	111 î	13.3	31.0
\$10.00-\$11.99	299	15.8	8.6	16.6	10 h	21.0
\$12.00-\$13.99	194	10.2	121	66	3771	00.0
\$14.00 or more	111	8.6	1.2	5.0	10.0	20.0
		0.0	3.0	2.9	10.01	12.5

### Table 2. Distribution of monprofit 1/ abort-term general hospitals according to eight rates, by bod capacity: 1951

1/ Excludes Catholic and government hospitals.

the four size groups. Payroll per patient day reaches a peak between \$6 and \$8 for hospitals with less than 100 beds; the peak is \$4 higher for the larger hospitals.

The proportionate number of employees required to care for petients increases with the size of the hospital. The number of fullpetients increases with the size of the hospital. The number of fulltocombined--is 145 for hospitals with isse has 50 beds and 203 for the largest hespitals. Within seth size group, however, score hospitals report that the number of employees is more than twice the average day. By size proop the distribution of hospitals is as follows:

	Percent of hospitals by a						
Full-time paid personnel per 100 patients per day	Under 50	<u>50-</u> 99	249	250 or more			
Total	100	100	100	100			
Less than 120	27	16	5	1			
120-159	40	33	25	16			
160-199	21	32	40	38			
200 or more	12	19	30	45			

Regional differences in per diem expense correspond to those observed for per diem income. Expenses, especially for payroll, are highest in the Pacific States and lowest in the South for each size proup.

## Deficit or Surplus and Operating Ratios

High expense per patient day is an outstanding characteristic of hospitals with deficits. When compared with hospitals of similar size with surpluses, those with deficits have low occupancy rates, long duration of stay, low income from patients per patient day, and high per diem expenses for both payroll and other expenses.

To study the differences between hospitals operating with deficits and hospitals showing surpluses the i.515 hospitals under consideration are divided into four groups: (1) those with a deficit of a percent or more; (2) those with a deficit of least than 5 percent; (3) those with a surplus of least than 5 percent, including the hospital cent or more of total expense.

In 1951, three-fourths of the hospitals were able to finance current operations from current income and only one-fourth had a deficit.<sup>1</sup> In terms of extremes, 8 percent report a deficit of 5 percent or more, while another 8 percent report a surplus amounting to

<sup>&</sup>lt;sup>1</sup>The Commission on Financing of Huapital Care studied the American Hospital Association reports for 1631 and 1668 received from 1.4Meanpoils store-form general hospital, "The distribution of hospitals according so definite ourspitan via allocate the source in 1500 of 1612. One exclusion of the hospitals have a definit in both years, one-fourth had a definit in one of the two years, and 62 percents and a definit in cone of the two years, and 62 percents and a definit in form of the two years, and 62 percents the source in 1500 of the two years, and 62 percents the source in 1500 of the two years, and 62 percents the source of the two years, and 62 percents the source of the two years, and 62 percents the source of the two years, and 62 percents the source of the two years, and 63 percents the source of the two years, and 63 percents the source of the two years, and 63 percents the source of the two years, and 63 percents the source of the two years, and 64 percents the source of the two years, and 64 percents the source of the two years, and 64 percents the source of the two years, and 64 percents the source of the two years, and 64 percents the source of the two years, and 65 percents the source of the two years, and 65 percents the source of the two years, and 65 percents the source of the two years, and 65 percents the source of the two years, and 65 percents the source of the two years, and 65 percents the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the source of the two years, and 65 percent the two

	Number	Percent by deficit or surplus								
and region	of hospitals	Total	Deficit 5% or more	Deficit 0.1-4.95	81791us 0-4.9%	Surplus 7% or more				
All hospitals Northeast North Central South	1,515 511 169 368 173	100 100 100 100	8 12 7 6 7	18 25 13 16 10	33 37 38 31	41 8/ 86 47 50 59				
Lose than 50 beds . Northeast	428 83 176 99 70	100 100 100 100 100	16 15 10 9 9	10 11 11 7 10	32 37 30 34 28	48 31 50 53				
90-99 beds Northeast North Centml South West	427 147 114 127 39	100 100 100 100	10 14 10 5	17 18 11 22 10	95885	43 39 50 51				
100-849 beds Northeast North Central South West	473 187 137 100 49	100 100 100 100 100	57 8 76	21 35 14 11 10	34 36 37 33	h0 22 46 59 51				
850 or more beds Northeast North Central Booth West	187 94 42 36 15	100 100 100 100	8 15 0 3 7	26 29 25 28 7	41 82 82 33 33	25 14 36 30 53				

#### Table 3. Deficit or surplus as percent of total expense for monprofit 1/ short-term general hospitals, by bod especity and region: 1911

1/ Excludes Catholic and government hospitals.

3/ Of these 62% hospitals, 271 reported surglusses of 5.0-9.9 percent; 166, surplusses of 10.0-31%, percent; 17, surplusses of 15.0-19.9 percent, and 116, surpluss of 28.0 percent or more.

20 percent or more (table 3). Surpluses of 5 percent or more are relatively more frequent among the smaller hospitals.

More than one-third of the hospitals in the Northeast region show a deficit, in contrast to one-sixth of those in the West. For each size group, a larger proportion of the hospitals in the West than in the Northeast region show a surpions of 5 percent or more. In fact, over half of the hospitals in every size group in the West report a surplue of this level (fig. 2).

How the haspitals with deficits and the hospitals with aurplusses compare in terms of operating ratios is shown in table 4. In each size group, occupancy rates are higher in the hospitals with a surplus; they are consistently lowest in the hospitals with the greatest deficits. This finding illustrates the aphorism that the most 'expensive' bed in the hospital is the unoccupied bed. The impertance of the occupacy factor is demansitized by the fact that if the group with deficies that accommodels enforce additional pairplanes (which start accupancy to the level of the hapital's with offer the start of the start of the start of the start been wiped, out. These suppositions are not wholly realistic, but been wiped, out. These suppositions are not wholly realistic, the start of the start of the start of the start of the been wiped, out. These suppositions are not wholly realistic, the start of the start resulting deficient part of the start of the start of the start of the start resulting deficient parts of the start of th

Average length of stay, on the other hard, is greater in the hospitals with a deficit than in those with a surgills for each size group. Average patient stay in the largest hospitals with 3.5 speccent-ormore deficit is 11.4 days, as compared with 8.7 days in hospitals with surpluses of this magnitude. The hospitals with deficits include many teaching hospitals characterized by both long etays and high



Figure 2. Parcentage distribution of 1,515 nonprofit short-surm general hospitals according to deficit or surplus, by region and bad capacity: 1953.

		-				-			-			Any
led capacity and deficit or surplus	Number of hospi- tals	0 8 5	icu- ancy ate	Ave let of (da	rage igth stay iys)	Total Pat		ient	Other		percent of total	
All hospitals: Deficit 5% or more Deficit 0.1-4.9% Surplus 0-4.9% Surplus 5% or more	125 263 503 68	67777	9.0 5.7 7.1	0000	27.0.4	2111	9.45 9.45 9.30	\$15 16 17	.58 .61 .05	\$4.66 2.84 1.96 1.70		77-1 85-4 89-9 90-9
Under 50 beda: Deficit 5% or more Burplus 0-4.9% Surplus 5% or more Shop beda:	43 138 203	2000	4.4 8.6 2.4 2.2		-5	1111	5.41 5.07 5.96	11	.87 3.71 .05 .70	1.54 .93 1.08 1.26		90.0 93.7 93.3 92.1
Peficit 9% or more Deficit 0.1-4.9% Burplus 0-4.9% Surplus 5% or more 100-849 beds:	42 72 127 186	6676	8.2 8.2 8.3		.2	1111	5.67 6.44 1.55	71	.66 .08 .90	1.56 1.55 1.54 1.6		89.7 89.9 90.7 90.7
Deficit 95 or more Deficit 0.1-4.95 Burplus 0-4.95 Durplus 55 or more 250 or more beds:	83 100 169 188	6177	7.6 1.5 7.6 7.8		1.2	15.97 1 18.59 1 18.73 1 19.84 1		14	.38 .74 .98 .17	1.69		90.1 90.1 90.4 91.6
Deficit 35 or more Deficit 0.1-4.95 Surplus 0-4.95 Surplus 35 or more	16 18 76 17	27000	1.0 7.5 1.0 1.6	10	-0	00000	21.11 11 20.29 18 20.58 18		.18 3.93 .05 2.24 .13 2.15			81.4 88.9 69.5
3ed connectly and deficit or eurplus	Total		Payz	v11	Othe	r	Payr ne perc of	oll ent	pers pers pertinger	id onnel 100 ents dev	9 9	an ercent of
All hospitals: Deficit 5% or more Deficit 0.1-4.9% Surplus 0-4.9% Surplus 5% or more Surplus 5% or more	\$02.25 19.76 18.55 17.26		\$12. 11. 10. 9.	おいたわ	\$ 9. 8. 7. 7.	6)3203	56 57 57 56	.5 .9 .9	2111	10 97 84 75		- 9.2 - 1.6 + 2.3 +11.8
Definit 55 or more Definit 55 or more Burplus 0-4.95 Surplus 55 or more 50-99 beds:	18.41 15.00 14.75 13.76		8. 7. 7. 7.	72 98 98 88	9-1-6-6-	69 58 53	47 98 73 98	.8 .7 .9	1	54 43 47 42		-16.3 - 2.4 + 2.1 +15.9
Deficit 5% or more Deficit 0.1-4.9% Surplus 0-4.9% Surplus 5% or more 100-249 beds:	16.76 15.95 16.12 15.48		8. 9. 8.	976647A	7.7	53 33 38 74	5555	3115	1	65 68 63 63		- 9.2 - 1.8 + 2.0 +13.4
Deficit 9% of more Deficit 0.1-4.9% Sarplus 0-4.9% Sarplus 5% or more S50 or more beas:	17.56 18.92 18.34 17.75		10.	20 87 46 08	8. 7. 7.	38 35 38 57	95556	.0 .4 .1 .8	1	15 85 79		- 9.2 - 1.8 + 2.4 +11.7
Deficit 0.1-4.95 Barphus 0-4.95 Barphus 5% or more	21.40 19.86 18.67		15. 12. 11. 10.	61 79 63	8. 8. 8.	19 19 17	5759.5959	.9 .9 .3 .8	22	43 12 98 83		- 8.7 - 1.4 + 2.2 +10.2

Table 4. Average rates for 1,515 nonprofit 1/ short-term general hospitals, by bed capacity and deficit or surplus: 1951

1/ Excludes Catholic and government hospitals.

expense per patient day.<sup>1</sup> The long stay in the "deficit" hospitals may also result from a relativity high propertion of complicated cases resulting a multiplicity of expensive diagnostic and beration of the start of the start of the start of the start cost of the start of the start of the start of the start long start complicated cases would be consistent with the high per deficient.

Among bospitals of the same size, the level of total laconse appaint day appears to have titler scattenish for the accurrate of paint day appears to have titler scattenish for the accurrate of income from pailents and income from all after sameras, however, or paints and the same from all after sameras, however, or paints and the same from all after sameras, however, the hospital with deficit have loop prelime income from paints is the hospital with deficit have loop prelime income from paints factor income from scores often than pailents is high smoog factor income from scores often than pailents is high same factor income from scores often than pailents is high address bactorism with deficit reserved as high a per dem income from bospitals with deficit reserved as high a per dem income from bospitals with deficit reserved as high a per dem income from bospitals with deficit reserved as high a per dem income from sources as the often points.

As would be expected, per diem expense increases in line with the decrease in surplus and the increase in deficit. Among the largest hospitals the average figure is \$18.67 for the hospitals with a surplus of 5 percent or more and \$26,52 for those with a deficit of 5 percent or more, a difference of nearly \$8.

Both payroll company and all other expanse increases with a rise induction, but payroll as a period of taid company remains explained by increases in numbers of full-time personal. Among the longest boundary, how arrange moders of full-time personal. Second and the second second second second second second of the second second second second second second second of the second the cost of one pairs replacements or additional equipment second second second second second second second second the cost of one pairs replacements or additional equipment second sec

In studying these data an element to be considered is the practice followed by hospitals in handling depreciation and interest on invested capital. Although the number of hospitals that include these items in statement: of expense is apparently on the increase, it is probably a use fa umption that most hespitals are still not doing

<sup>&</sup>lt;sup>1</sup>Of the hospitals with deficits, 87 percent are approved by the American Medical Association for residencies: of the hospitals with surplusar, 21 percent, For the largest hospitals the proportions are 40 percent for those with deficits and 40 percent for those with surplusars.

so. If it were assumed hat an allowance for depreciation of 5 percent of expense should be lead in not included as part of a hoopital's copense, the definit of the hospital would move from the surstance for interest on invested capital should be included, all at 12 percent of the hospital would show a definit for the year.

## Per Diem Expense and Operating Ratios

Mognials with high expense per patient day have low occupancy rates and show duration of sitely in comparison with low-expense hospitals in the same size group. Income both from patients and from other cource becomes substantially highers as per durate pense goes up, but mrights a baborbed by payroll, reflecting the baby ratio of presenced to patients.

	Buster	Percent by per diem expense							
and region	of bospitals	Total	Under \$12.00	\$12.00- \$15.99	\$16.00- \$19.99	\$20.00 or more			
All hospitals North Central North Central	1,515 511 469 362 173	100 100 100 100 100	16 8 21 21 12	35 35 35 35 35 35 35 35 35 35 35 35 35 3	26 33 25 23 19	23 <u>2</u> / 22 21 16 18			
Less than 50 beds Sortheast Borth Central Bosth West	498 53 176 99 70	100 100 100 100	32 28 41 26 21	36 41 34 40 33	18 24 15 13 23	14 7 10 19 23			
90-99 beds North Central South Central Next	427 147 114 127 39	100 100 100 100 100	17 10 18 28 7	41 41 46 43 21	27 35 23 22 21	15 14 13 7 51			
100-2%9 buds Northeast South Central South West	473 187 137 100 49	100 100 100 100 100	5 2 3 13 10	33 36 11 44 10	31.57 37326 10	31 25 33 17 76			
290 or more beds Northeast Bosth Central Bosth	187 94 142 30 15	100 100 100 100	22200	81 31 10 19 0	33 26 45 27	44 41 36 73			

Table 5.	Per dies excents	for monwoft	εIJ	abort-term	general	hospitals,
	by be	d copecity and	1 re	gion: 1951		

1/ Excluses Catholic and government hospitals.

2/ Of these 350 hospitals, 135 reported per diem expense of \$20.00-\$21.99; 03. excesse of \$23.00-\$23.99; and 122, expense of \$24.00 or more.



Figure 3, Percentage distribution of 1,515 nonprost short-term general hospitals according to per diem exposes, by region and bed capacity. 1953

Of the 1,515 hospitals in the study, 16 percent have a per élime sopense of less that 312, 35 percent arise the group with exprase between 312 and 316, 26 percent in the group between 516 and 300, observed and the table 11, per disc mechanism of the start 300 and the start 320 and 320 more expense per patient 300 in the group of largest hospital. Among the hospitals with less than 50 below of largest hospitals the corresponding percensings in the group of largest hospitals the corresponding percensing in the group of largest hospitals the corresponding percensing in 440. 3017 cours 3200 more submit of the some start 3200 more sequence per adjust 400 solutions 1000 more 3200 more sequence in 300 more 300

The frequency distributions in table 5 also pointup the regional differences previously discussed in terms of averages in table 1. Almost half of the hospitals in the Wost have a per dism expense of \$20 or more, a proportion more than double that in any other region.<sup>3</sup> On the other hand, 12 percent of the hospitals in the West

<sup>\*</sup>The highest level of hospital costs is reported in California, where the average per disen expense in hearitals with less than 50 bods is \$20,77, ranging speard to \$28,65 in the largest bespitate.

			m		Tr.	1000	Ter	101510	et	day
Bed capacity and expense per patient day	Sumber of haspi- tals	Occu- pancy rate	Av le of (d	erege ngth stay nys)	Total	Pa	tient	Othe	7	Patient as percent of totel
All hospitols: Less than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	236 532 397 350	70.9 74.4 75.9 76.2		7.7 7.8 7.9 5.2	11.32 14.89 18.64 24.98	\$10 11 10 21	2.23 3.60 5.88 1.23	\$1.0 1.2 1.7 3.7	9965	90.4 91.3 90.6 85.0
then \$12.00 \$12.00 \$12.00 \$16.00 \$16.00 \$19.99 \$20.00 or more \$20.00 or more	138 156 16 58	63.6 61.7 60.0 55.6		5.9 5.8 5.3	10.94 14.85 18.11 24.39	10	.24 .79 .32	.7 1.0 1.3 2.3	0696	93.6 92.8 92.6 90.3
Less than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more 100-299 beds:	72 177 114 64	71.2 69.2 65.9 68.3		7.5 5.8 5.4 5.1	10.99 14.69 18.32 25.71	13 16 25	.92 .43 .71 .72	1.0 1.9 1.6 2.9	7619	90-3 91-4 91-2 80-4
Less than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more 250 or more beds;	23 159 146 145	72.h 76.4 77.1 75.9		8.1 7.8 7.8 7.2	11.63 14.97 18.74 29.44	10 11 11 21	.80 .85 .05 .92	1.4	3992	87.7 92.7 91.0 89.7
Leis them \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	3 40 61 83	88.8 79.8 80.1 78.5	1	2.6 2.6 2.6 2.6	12.55 14.91 18.62 25.26	11	23272.59	1.92 1.68 1.90 4.67		89.4 88.7 89.8 81.5
Red capacity and expense per patient day	Total	Payre	<u>er j</u>	Othe	Payr as perc of	011 ent	pers pers per	-time id onnel 100 ents	1	effcit- urplus ercent of
All hospitals: Less than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	\$10.25 14.21 17.96 24.55	\$ 5. 7. 10.1 14.5	17 17 19	\$4.8 6.4 7.7 9.9	9,5,5,9	1	1112	26 58 59 1		+10.3 + 4.8 + 3.8 + 1.8
tees than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more 50-99 beds:	9.56 13.91 17.45 24.55	5.1 7.1 9.2 18.2	15 19	4.60 6.50 8.21 12.34	53. 53. 53.	3	1	16 14 94 73		+ 9.9 + 6.8 + 7.2 - 0.7
Lees than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more 100-249 beds:	10.04 13.00 17.73 24.44	5.3 7.5 9.6 14.0	6290	4.66 6.26 7.84 10.44	53 55 57		1111	24 56 73		+ 9.4 + 5.0 + 3.3 + 5.2
Lete than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more 250 or more beds: Lete than \$12.00	10.28 14.20 17.92 23.59	6.5 7-1 10-1 13-5	0977	5.30 6.41 7.75 9.61	54.4 56.4 59.4		1112	14 14 16 12		+13.2 + 5.4 + 4.5 + 3.6
812:00-815:99 816:00-819:99 820:00 or more	11.03 15.06 18.11 25.18	7.6 10.5 15-1	9 6 3 5	5.14 6.60 7.78 10.03	554 574 604	2	11	19 71 38 38		+ 7.9 + 3.1 + 2.8 + 0.3

Table 6. Average mates for 1,515 nonprofit 1/ short-term general hospitals, by bel capacity and expense per patient day: 1951

1/ Excludes Catholic and government hospitals.

have low per diem expense (less than \$12), as compared with 8 percent of those in the Northeast region and 21 percent in the two other regions. The concentration of low per diem expense is in the smallest hospitals in all regions, as illustrated in figure 3.

The relationships between per dism expense and the various ratios within each is groups re-hown in table 6. When hed expecting is held constant, occupancy rates and length of stay wary inversely with per dism expense. For example, in the group of hospital with less than 50 beds, the average occupancy rate is 64 percent in the hospital with per dism, expense under \$12, and 50 percent surstry drops from 6.9 days a mong hospital with the lowest expense to 5.3 days among hospitals with the highest expenses.

These data apparently indicate that low occupancy at any level of bed equacity is an important contributory factor to high costs. With respect to length ad stay, high separate per patient day may control to the patient. If hospital within the same there are the realistic starts of the same types of cases and if most of the expensive services and procedures are performed during the first days of the patient's starty, then the longer stay among the hospitals with low dism exempts.

Income rises less sharply then expense in each size group, with the result that the excess of Income over expense diminishes rapidly as per diem expense goes up (last column of table 6). With respect to expense for items other than payroll, the highest figures are found among the small hospitals with high per diem expense. Pair of the reaches may be that many of these a null hospitalpair of the reaches may be that many of these and hospitalhospital states and the state of the state of the state of the formation of the state of the state of the state of the state hospital states are stated as a state of the state of the state hospital states are stated as a state of the state of the state of the hospital state of the hospital state of the hospital state of the hospital state of the st

In all but the emailest hospitals the ratio of payroll expense to it appares in previews as total per discn separate increases. Among analysis and the set of the set of the set of the set of the set aslaries take 52 eenis of very dollar sepent, compared with 61 cents of every dollar smoog the hospitals which spent \$200 more per patient day. The latter hospitals spend almost three times as much comprasy items take only very each set much.

The reason for this rise in per diem payroll expense is quite clear from table 6. Hospitals which spend \$20 a day or more employ 221 full-time persons for every 100 patients in the hospital at any one time, in contrast to a rate of 126 de employers in the hospital which spend less than \$12 a day. In addition to having a high ratio of patients, these "high carl's bar part of the propertion of highly paid workers since payroll expense increases more abardy than the number of workers.

Table	7.	Percent	of not	apportit ]	/ 104	ort-term	general	hosyitals	with	specified
	- 64	ervices, b	iy bed	capacity	and	expense	per pat	sent day:	1951	

	Expense per patient day Expense per patient day							t day			
Service	To- tal	Lana than \$12	\$12 to \$16	\$16 to \$20	\$20 or more	70- tal	Lene than \$12	\$12 to \$16	\$16 to \$20	\$20 or nore	
	less than 50 belo						50-59 bada				
Diagonicia Inter Basin mataolia Jaboretory Clisical Jaboretory Distributional program Biodi basi Holi da Univery Mainary Tharperit 2 - nay Popisitionny department Denti department Denti department Denti department Denti department Denti department Denti Apprent Dentify Hack Science Science Science Science Hackwinepinlogram Dentify D	88737367517725418812 3511 2 3 2 1 2	8286569431556192351140111	8672TL675352244 1 3924914311	9557768849952174431811	5568886695555614 301 32 200	983318829854911308151736249	94366855533994661227121611	994 51 B 91 994 90 729 119 128 74 2 70	105555986537758146948359	987 975 997 998 10 97 531 561 57 561 57 561 57 561 57 56 51 56 51 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 56 57 57 57 57 57 57 57 57 57 57 57 57 57	
	-	200-	249	beda	Ľ	-	290 0	r mor	e bež		
Blagnotic X-my mail metabolism apparatus (Inical laboratory (Inical laboratory Medical Parcon Separatus Medical Library Medical Library Maranzy Therapolic 2-my Maranzy Therapolic 2-my Mental (Separatus Mental (Separatus) Bottal departant Bottal chery Compared Bottal chery Compared Mental (Negles clint Compatibility (Separatus) Mental (Negles clint Compatibility (Separatus) Mental (Negles clint Compatibility (Separatus) Mental (Negles clint) Mental (Negles	998 796 9977 8765 871 992 88 23 84 13 210	999999988889969353929223903	3395999882687649861749962	99896997946897394882344207	1099970077957958754639377999239	090090090909999999994199540	100 100 6 00 6 00 6 6 7 7 7 7 0 0 3 0	100 100 100 100 100 100 100 100 100 100	100 100 100 100 107 98 98 95 6 99 98 85 6 99 98 84 148 83	100 99 100 95 100 92 10 92 10 92 10 92 10 95 10 95 10 10 10 95 10 10 10 10 10 10 10 10 10 10 10 10 10	

1/ Excludes Catholic and government hospitals.

## Scope of Program and Operating Ratios

Range of services and size of hospital are closely related, with the result that the several ratios vary with scope of program in the same manner as with bed capacity. Hospitals with a large variety of services have a high per diem expense and a small balance of income over expense.

The relationship between kinds of services available and size of hospital is clearly domonstrated below, without acception, the proportion of hospitals which offer each of the specific services is greater in the larger than in the smaller rise groups. Three items selected for purposes of illustration show the variation with bed capacity:

	Percent of hospitals with:								
Bed capacity	<u>Clinical</u> laboratory	Physiotherapy department	Mental hygiene						
Under 50	73	12	1						
50 - 99	91	20	4						
100 - 249	97	59	12						
250 or more	100	91	40						

Table 7 shows for four per diam separate groups the percentage of hospital of each size which differ each of 17 Activities and server. Within each size and the percentage of the server of the server separate server is a server of the proportion of hospitals with any of the specifical service state in the increasing per diem cost. For example, among the hospitals with itser than 50 bads, 64 percent hospitals with itser server with the server of the server of s20 or more. Obviously, a patient dynamic barrow barries of d state or more. Obviously, a patient day cannot be used as a unit of servery server of the scrept and its hospitals.

For analytical purposes, the hospitals have been classified into four groups according to the number of selected facilities or services they make available; 0-5, 6-4, 10-13, and 1+-13, but first is, do hospital catabilith these services in showne random fachtion or is there a consistent pattern? If two hospitals have four services acts, are to day: likely to be the same four or combinational that are stop, are to day.

Table 8 provides a good indication of what hinds of facilities and services are applied to included in any state number of services. Of the hospitals with 0-5 services, 32 percent provide diagnostic X-ray, clinical linkorizatory, 49 percent have an electrocardiograph, and so on. Twive of the 19 specific services are offered by less than 10 provides from services, 11 is almost certain that the form of these are based metabolism, clinical laboratory, or electrocerdiotimes are based metabolism.

	ALL	Exper	ise ye	Nue	imber of services				
Bervioe	hos- pi- talu	Laze than \$1.8	\$12 to \$16	\$16 \$00	\$00 or nore	to 5	6 to 9	10 to 13	14 50 19
Bagnetic I-ray Dati mbiblin operation East and biblin operation Easterneardingsph Malical terr Tearing and Agartant Margarian departant Therapelic I-ray Original Stray Original Control of Control Destation Control Agartant Destation Cont	\$\$\$\$\$\$388555555555555555555555	8727588424433171111116 3 8 1 3	500000000000000000000000000000000000000	\$	995955574888886¥12958522	879932883	99949899994438197135311	99999999999999999999999999999999999999	10000100000000000000000000000000000000

Table 8 . Percent of namprofit 3/ short-term general hospitals with specified envices, by expense per patient day and by number of aerrices: 1951

1/ Excludes Catholic and government hospitals. 2/ Lass than 0.5 percent.

lunbar of	Junker	tam expense				
services 2/ uni region	of hospitals	Total	Under \$12.00	\$12.00- \$15.99	\$16.00-	\$00.00 or nore
0-5 services Northeast North Central Bouth	109 61 119 84 55	100 100 100 100 100	90 33 44 32 90	39 34 35 43	18 30 13 15 20	7 3 5 10 11
6-9 services Northeset North Central Bouth Yest	90) 158 159 155 6	100 100 100 100 100	16 9 19 23 9	42 IS 13 2	25 H 25 H 25 H 26 H 26 H 26 H 26 H 26 H	17 11 15 12 48
10-13 services Sortheast North Central Bosth West	997 190 110 92 45	100 100 100 100 100	6 4 6 1 2 2	31 39 36 36 36 7	34 36 30 22	29 21 30 21 69
14-19 services Southeast	229 142 38 31 18	100 100 100 100 100	1 0 3 0	19 85 0 26 0	89 31 39 32 6	51 71 39 99

Table 9. Per dise aspesse for comprofit l/short-term general hospitals, hy masher of selected services and region: 1951

1/ Excludes Catholic and government houpitals. 2/ Dem table 8 for limiting of services.

graph. In the same way, if a hospital provides 16 services, the omitted items are likely to be 3 of the following 5: routine chest X-ray, postoparative recovery room, electroencephalograph, mental hygiene clinic, or accupational therapy department

The relationship between the level of per dism expense and the scope of hopping linear the paperent when per dism expense is determined for groups of hoppitals classified and the second momber of solected services have after failed by A. A con externs 36 percent of the hoppitals with 0-5 services have a per dism capense of the star 512 and 7 percent have a mepsees of 250 million percent of the solection of the solection of the solection with 14-19 services have the sole for all percents that a means built of the solection of the solection of the solection of the solection on thave the hippest cost. It because the file solection of the solection of the solection of the sole of the solection o

In all sections of the country an increase in scope of services is associated with higher per diem expense (fig.4). The association is not clear cut, however, since a substantial number of hospitals offering few services have high per diem costs.



Figure 4. Forcessings distribution of 1,515 nearprofit shurt-term general haspfulls according to pur dism expense, by regim and number of selected services: 1851

	Destar	Nodlas	Expense per patient day for hospitals -						
Bunber of services 2/	Basher of of bad services g/ hospitals capacity			Median bol capacity and above					
0	24	23	\$10.87	\$14.07					
	17	22	10.03	11.25					
	21	23	18.82	15.37					
	56	30	12.72	12.95					
	71	34	13.54	14.19					
	120	61	24.02	14.77					
6 9	140 135 158 147	90 59 69.5 94	15.66 15.32 15.79 17.40	15.90 14.91 15.99 16.84					
10	114	105	17.78	17.55					
11	101	135	16-77	18.02					
12	96	140.5	17-33	18.26					
13	86	187.5	19-14	17.99					
14	64	215	20.07	18.95					
15	19	260	21.21	19.99					
16	20	272-5	20.72	20.01					
17	20	358-5	19.52	21.67					
18	20	542	27.41	21.69					

Table 10. Expense per patient day for 1,515 nonprofit 1/ short-term general hospitals above and below molian bed capacity, by mamber of services: 1951

1/ Excludes Catholic and sovernment hospitols.

2/ See table 8 for listing of pervices.

Both the range of services and the size of the basyital have been shown to be related to per dame spenses. That shad the tell is not a shown to be related to per dame spenses. That shad the tell is not a fairly easily demonstrated. Thus is table 10, hospitals are separated into 00 groups according to perturbe number of latistics or servses and second second to the second that bed capability as each has little affect on the level of per distanted second second second second second second second second is relatively small, in 10 of the 30 groups the difference is last have higher

In terms of cause and effect, it is easy to see that the scope of the hospital program could well be the underlying determinant of per diam expense. At the same time, because of the high correlation between number of services and size of hospital, the latter can

	1				I	Dtom	e per	patier	rt day
Number of services 2/ and deficit or surplus	Number of hospi- tals	Occu- pancy zate	Ave len of {de	erage ngth stay sys)	Total	Pa	tient	Other	percent of total
0-5 aerrices	100	61.5	6	5.0	133 76	41	9.90	\$ 10	m k
Deficit % or sore	107	23.2	$\rightarrow$	÷ş	10 10	191	3.70	9.30	23.0
Deficit 0.1-4.96	1 20	63	1 2	50	13 42	1.5	1.00	1 1 2	93.0
furning 0-4.91	108	62.8	1 2	83	13 10	1.3		4-13	30.4
Samilus 56 or some	195	60.0	2		10 61	1.5		1 22	121
	1.0	OLIL	•	··*	13104	1 "		>>	1 20.00
5-9 Services	580	72.2	1.3	5.9 .	16.90	1 23	5.65	1.84	52.6
Deficit 5% or more	96	62.3		1	15.72	1	1.01	1.68	89.3
Deficit 0.1-4.9%	79	70.0	6	5.9	15.96	1.30	1.09	1.37	91.1
Burplus 0-k.95	173	72.3	i n	r-1 .	16.46	1	3.37	1,09	93.4
Sarplus 5% or more	272	78.4	6	5.7	17.87	1	5.61	1.24	93.1
10-13 services	907	77.1	1 2	1.7	18.92	1.1	1.16	1.24	00.7
Deficit % or more	- 34	76.4		1.0	11.44	t n	00	1.55	1 00 2
Definit 0.1-6.96	70	73.3	l ā	. I	18.76	1.57		1 85	00.1
Burnlug Dak 96	124	19.0		â	18.90	1 %	272	1 66	01.6
Surplus 95 or more	168	78.9	2	17 I	19.70	1 12	CR I	1.90	00.6
the transmission	600	00.0				1.73			
Locky services	any .	70.3		1.4	21.42	+-63	2.03	3.62	04.0
Deducte processie in		14.0		·•	63.00	1.53		0.00	111.0
Dericis 0.1.4.99	13	11.5	2	91	80.99	1.5	(•33	3.00	02.5
ourplus 0-4.98	00	00.0	2	11	21.10	1 10	2.43	2.07	07.4
supplus ye or more	49	11.0	0	64 J	21.01	1 13	1.27	2.54	88.3
	No.	pence p	er p	atien	t day		1201	-time	Deficit-
Number of					Payz	1111	1	48	des medicas
anyvines 0/									
041 FACTO 1.1							pers	(install	4.1
and deficit	Total	Payr	011	Othe	au pero	ent	pers	onnel 100	as parcent
and deficit or surplus	Total	Payr	011	Othe	r perc	ent	pers per pati	onnel 100 egts	as parcent of
and deficit or surplus	Total	Payr	011	Othe	r perc of tot	ent al	pers per pati per	onmel 100 ents day	as percent of expense
and deficit or surglus	Total	Payr	011	011a	r perc od sot	al	pera per peti peti	onnel 100 esta day	as parcent of expense
and deficit or surplus	Total	Payr	011 7]	0114 \$6.3	r pero of tot	al	pera per peti peti	onnel 100 euts day	as parcent of expense + 5.8
end deficit or surplus 0-5 services Deficit % or more Deficit ().1-0.0%	Total \$13.96 14.63 16.75	Payr \$ 7- 7-1 6.1	011	0114 \$6.3 6.9	r pare of sof sof	al 7	pera per peti peti	onnel 100 esta day 44 51 51	40 parcent of copense + 5.8 -10.9
and deficit or surplus 0-5 services Deficit % or more Deficit 0.1-4.9%	Total \$13.96 16.63 16.74	Payr \$ 7- 7- 8.0 7	011	0tha \$6.3 6.9 6.0	r part of sof	al 2	pera per peti peti ler	onnel 100 euts day 44 51 57	48 parcent of copense + 5.8 -10.9 - 2.2 + 2.1
and deficit or surplus 0-5 services Deficit % or more Deficit 0.1-4.% Burplus 0.4.% or more	Total \$13.96 16.63 16.74 13.76 13.69	Payr \$ 7-1 8.4 7.1 7.1 8.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	11 5120017	0114 \$6.3 6.9 6.4	ar part of 54,515,515,515,515,515,515,515,515,515,5	al 2 7 7 3	pera per peti jez	onnel 100 esta . day 44 51 57 40 49	43 parcent of copense + 5.8 -10.9 - 2.2 + 2.1 +12.1
or surplus 0-5 services Deficit % or more Deficit 0.1-0.9% Burplus % or more 6 or more	Total \$13.96 16.43 16.74 13.90 13.69 16.01	Payr \$ 7- 8.4 7.1 7.1 8.4 7.1 7.1 8.4 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	011 726061177	0tha \$6.3 6.9 6.1	r part of tot 54.	al 2 7 7 3 3	pera per pati pati l	onnel 100 esta day 44 51 57 40 42 42	48 parcent of copense + 5.8 -10.9 - 2.2 + 2.1 +14.3 +14.3
ond dericit or surplus Deficit % or more Berficit 0.1-4.% Burplus 0-4.% Burplus % or more 6-9 services	Total \$13.96 16.63 16.74 13.90 13.69 16.01 10.01	Payr 3 7- 7- 8- 7- 7- 8- 7- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 7- 8- 8- 7- 8- 8- 7- 8- 8- 8- 8- 8- 8- 8- 8- 8- 8	-1 726525780	0tha \$6.3 6.9 6.4 6.1 7.2	2 13 13 13 13 13 13 13 13 13 13 13 13 13	al 2 7 7 3 3 0	pera peri peti li li li li li li li	onnel 100 euto day 44 51 57 40 42 63	43 parcent of + 5.8 -10.9 - 2.2 + 2.1 +14.3 + 5.6
and deficit or surplus 0-5 services Deficit 5% or more Deficit 0.1-3.5% Burplus 5% or more 6-9 services Deficit 5% or more Deficit 5% or more Deficit 5% or more	Total \$13.96 16.63 16.74 13.90 13.69 16.01 17.69	Payr 3 7- 7- 8- 7- 8- 9- 9-	1 198317 873	0tha \$6.3 6.9 6.0 6.1 7.9 7.9 7.9	a part of the second se	al 2 7 7 3 3 0 3	pera peri peti li li li li li li li	onnal 100 day 44 51 57 40 42 63 00 57	43 parcent of copense + 5.8 -10.9 - 2.2 + 2.1 +14.3 + 5.6 -11.2 -11.2
and deficit or surplus 0-5 services Deficit 55 or more Barplus 0-4.55 Barplus 0-4.55 Barplus 0-5 more 6-9 services Deficit 0.1-4.55  Deficit 0.1-4.55	Total \$13.96 14.43 15.74 13.90 13.69 16.01 17.69 15.51	Payr \$ 7- 7- 8- 7- 8- 7- 8- 7- 8- 1 8- 1 7- 8- 1 1 1 1 1 1 1 1 1 1 1 1 1	1 79815 8288	0tha \$6.3 6.4 6.4 6.4 7.2 9.5 7 7.2 9.7 3	au parce of a state of	al 2 7 7 3 3 0 9	pera per pati per 1 1 1 1 1 1 1 1 1 1	onnal 100 euta 44 51 57 40 42 63 57 57 57 57 57 57 57 57 57	48 parcent of copense + 5.8 -10.9 - 2.2 + 2.1 +14.3 + 5.6 -11.2 - 1.6 - 1.6
end deficit or surplus Deficit 95 or more Deficit 0.1-4.95 Barplus 0.4.95 Barplus 95 or more 6-9 services Deficit 95 or more Deficit 0.1-4.95 Deficit 0.1-4.95	Total \$13.96 16.43 16.73 15.76 13.69 16.01 17.69 15.51 16.09	Payr \$ 7- 8.4 7- 8.4 7.5 8.4 9.4 9.4 9.4 9.4	1 19835787888	0tha \$6.3 6.9 6.0 6.1 7.2 9.5 7.3 7.3 7.3	au parce of the state of the st	al 2 7 7 3 3 0 3 9 2	pera per pati per 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onnal 100 euta 44 51 57 40 42 63 57 64 64 64	40 parcent of + 5.8 -10.9 - 2.2 + 2.1 +14.3 + 5.6 -11.2 - 1.6 + 2.3 +15.6
and dericit or surplus 0-9 services Deficit 30 or more Deficit 0.1-4,05 Barplus 0-4,05 Barplus 9% or more Deficit 0.1-4,05 Barplus 0-4,05 Barplus 0-4,05 Barplus 0-5 or more	Total \$13.96 14.43 14.74 13.90 13.69 16.01 17.69 15.51 16.09 15.86	Payr 4 7- 7- 8- 7- 8- 1 7- 8- 1 7- 8- 1 7- 8- 1 9- 8- 2 - 8- 2 - 8- 2 - - - - - - - - - - - - -	1 7365175 872851	0tha \$6.7 6.9 6.4 6.4 7.2 8.9 7.3 7.3 7.1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	al 2 7 7 3 3 0 9 2 2	pera per pati per l l l l l l l l l l l l l l l l l l l	onnel 100 ents day 44 51 57 40 42 63 70 57 66 66	43 parcent of +5.8 -10.9 -2.2 +2.1 +14.3 +5.6 -11.2 -1.6 +2.3 +12.6
end deficit or surplus Deficit 95 or more Deficit 95 or more Barplus 0:4.95 Barplus 95 or more 6-9 service Deficit 55 or more Deficit 55 or more Barplus 0:4.95 Barplus 0:4.95 Barplus 0:4.95 Barplus 55 or more	Total \$13.96 16.53 16.74 13.90 15.69 15.51 16.09 15.86 17.95	Payr 4 7- 7- 7- 8- 7- 7- 8- 9- 9- 8- 9- 9- 8- 9- 9- 8- 10- 10- 10- 10- 10- 10- 10- 10	3 133238 728327	0tha \$6.7 6.9 6.4 6.4 7.8 8.9 7.3 7.3 7.3 7.1 7.7		al 2773309229	pera peri peri l l l l l l l l l l l l l l l l l l l	onnal 100 ents day 44 51 57 40 42 63 07 57 66 66 99	45 parcent of + 5.8 + 5.8 + 2.2 + 2.1 + 14.3 + 5.6 - 11.2 - 11.6 + 2.3 + 12.6 + 5.4 + 5.4
end dericit or surgius 0-5 services Deficit 5% or more Deficit 5% or more Samplus O.4.0% Samplus O.4.0% Deficit 5% or more Deficit 5% or more Deficit 5% or more Deficit 9% or more Deficit 9% or more Deficit 9% or more	Total \$13.96 16.43 14.74 13.90 15.61 17.69 15.51 16.09 15.86 17.93 17.36	Payr \$ 7- 8- 7- 7- 8- 9- 8- 9- 8- 9- 8- 9- 8- 9- 9- 9- 9- 9- 9- 9- 9- 9- 9	3 7383478878878	0tha \$6.3 6.4 6.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3		al 2 77 73 3 0 3 9 2 2 9 8	pera per pati pati 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onnel 100 euto day 44 51 57 57 64 63 57 64 66 70 77	an parcent of + 5.8 + 5.8 - 2.2 + 2.1 + 2.4 + 5.6 - 11.2 - 1.6 + 2.2 - 1.1.2 - 1.6 + 5.8 + 5.8 + 5.8 - 2.2 - 1.1.2 - 1.2.5 - 1.5.5 - 1.
and deficit or surgius 	Total \$13.96 14.63 14.63 14.69 13.69 15.69 15.69 15.69 15.86 17.99 17.99 19.12	Payn 4 7-1 8-1 7-1 8-1 7-1 8-1 9-1 8-2 9-1 8-3 9-1 9-1 1-1 9-1 1-1 9-1 1-1 9-1 1-1 1	1 795947 87851 888	0tha \$6.7 6.9 6.4 6.1 7.2 7.0 7.0 7.0 7.1 7.5 8.1	a 10 10 10 10 10 10 10 10 10 10 10 10 10	al 2773303922 9866	pera pera pati pati 11 11 11 11 11 11 11 11 11 11 11 11	onna1 100 ents day 44 517 540 44 557 540 44 630 576 666 707 92	as parcent of topping + 5.8 + 5.8 + 5.6 + 2.1 + 1.6 + 2.3 + 1.6 + 2.3 + 12.6 + 2.5 + 2.1 + 1.6 + 2.3 + 12.6 + 2.5 + 2.5 + 2.1 + 2.5 + 2.5
and derivers or surgius 0-5 surgius Deficit 5% or more Deficit 5% or more Deficit 5% or more Deficit 5% or surgius Deficit 5% or surgius Deficit 5% or surgius Deficit 5% or more Deficit 5% or more	Total \$13.96 16.43 14.74 13.90 15.61 17.69 15.51 16.98 17.95 17.36 1	Payr 4 7-1 8.4 7.1 8.4 7.1 8.4 9.4 8.5 9.4 8.5 9.4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	1 795947 87855 8884	0tha \$6.7 6.9 6.4 6.1 7.2 8.7 7.2 8.7 7.2 8.7 7.1 7.5 8.1 7.5 8.1 7.5 8.1 7.5 8.1 7.5 8.1 7.5 8.1 7.5 8.1 7.5 8.5 7.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 7.5 8.5 7.5 7.5 8.5 7.5 7.5 8.5 7.5 8.5 7.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 7.5 8.5 7.5 7.5 8.5 7.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	are of the second secon	ant 277330392298668	pera per pati per l l l l l l l l l l l l l l l l l l l	onna1 100 ente day 44 537 570 44 63 90 570 66 66 99 92 77	an parcent express + 5.8 + 5.8 + 2.1 + 44.3 + 10.2 - 11.2 - 11.2 - 1.6 + 2.3 + 12.6 + 5.8 - 2.9 - 2.9 - 2.9 - 2.9 - 2.9 - 2.9 - 2.1 + 2.1 + 2.1 + 2.5 - 11.2 - 1.9 + 2.5 - 1.9 + 2.5 - 1.9 + 2.5 - 1.9 + 2.5 - 1.9 - 1.9 + 2.5 - 1.9 - 1
and deriver or surplus Definit 5% or more Definit 0.1-4,5% Definit 0.1-4,5% Definit 0.1-4,5% Definit 0.1-4,5% Definit 0.1-4,5% Definit 0.4-5% Definit 0.4-5%Definit 0.4-5% Definit 0.4-5%Definit 0.4-5%	Total \$13.96 16.43 13.90 13.69 15.91 17.69 15.91 16.09 15.91 17.95 17.95 17.95 17.61	Payr \$ 7- 7. 8. 7. 7. 8. 9. 9. 10. 9. 11. 10. 9. 9. 9. 10. 9. 9. 10. 10. 10. 10. 10. 10. 10. 10	1 766547 87255 88848	0tha \$6.7 6.9 6.4 7.8 9.5 7.0 7.3 7.0 7.1 7.5 8 7.5 1 7.5 8 7.5 7.5 7.5 7.5 7.5 8 7.5 7.5 7.5 7.5 7.5 8 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	ar part of a 1,51,54,57,55,55,55,55,55,55,55,55,55,55,55,55,	ant a1 2 7 7 3 3 9 2 9 8 6 8 7 7 3 3 9 2 9 8 6 8 7 7 3 3 9 2 2 9 8 6 8 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 7 7 3 3 9 2 2 9 8 6 8 7 7 7 8 7 7 7 7 7 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7	pera per pati pati 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onna1 100 ents day 44 557 540 26 557 540 26 557 56 66 57 57 56 66 57 77 76	an parcent of + 5.8 + 2.8 + 2.1 + 2.1 + 2.1 + 2.1 + 11.2 - 1.6 + 2.3 + 12.4 + 2.5 + 2.1 + 2.1 + 2.1 + 2.4 + 2.5 + 2.5
and derivers or surgius 0-5 surgius Deficit 5% or more Deficit 0.1-4,5% Burglus 0-4,5% Deficit 50,1-4,5% Deficit 50,1-4,5% Deficit 50,1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5% Deficit 0.1-4,5%	Total \$13.96 14.63 14.74 13.90 13.69 15.51 17.69 15.85 17.95 17.95 17.95 17.15 19.12 17.85 19.12 17.85 19.12 17.85 19.12 17.85 19.12 17.85 19.12 17.85 19.12 1	Payr \$ 7- 7. 8. 7. 7. 8. 9. 9. 10. 9. 10. 9. 10. 9. 12.		0tha \$6.7 6.9 6.4 7 8.9 7.0 7 7.0 7 7.0 7 7.0 7 7.0 7 7.0 7 7.0 1 7 7.0 1 7 7.0 1 7 7.0 1 7 7.0 1 7 7.0 1 7 7.0 1 7 7.0 9 8 .0 9 7 7 .0 .0 1 7 7 .0 1 7 7 .0 9 8 .0 9 8 .0 9 8 .0 9 8 .0 9 7 7 .0 9 7 7 .0 1 7 7 .0 1 7 7 .0 7 7 7 .0 9 8 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 7 7 .0 9 .0 9	are of the A.S. A.S. S.S. S.S.S.S.S.S.S.S.S.S.S.S.	ant 277733039229866878	permiperi peri peri peri peri peri peri peri	onna1 100 euts day 44 557 540 26 70 75 66 66 70 70 76 08	an parcent of corpense + 5.8 + 5.8 + 2.9 + 2.1 + 10.6 + 5.8 - 10.9 + 10.6 + 5.8 - 10.2 - 11.6 + 10.6 + 5.8 - 10.2 + 2.1 + 12.5 + 12.
and deriver or surplus Definit 5% or more Definit 5% or more Definit 0.4.6% depinit 0.4.6% definit 5% or more Definit 5% or more	Total \$13.96 14.43 14.43 14.43 13.69 15.51 16.09 15.69 17.95 17.95 17.95 17.61 21.76 17.95 17.61 21.95 17.61 21.95 17.61 21.95 25.94 25.94 25.95 2	Payr \$ 7- 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 71 84 74 74 84 74 74 74 84 74 74 84 74 74 74 74 74 74 74 74 74 7	3 739547 87851 8884 8 54	0tha \$6.3 6.6 6.4 7.2 7.3 7.4 7.5 8.1 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	are of the state o	ant 277 3 3 0 3 9 2 2 9 8 6 8 7 8 5	permiperi permi	onne1 100 ents 44 51 57 40 42 57 57 40 57 57 6 66 57 92 77 6 92 77 6 93 6	$\begin{array}{c} a_{B}\\ parcent\\ of\\ copense\\ +5.8\\ +2.2\\ +2.1\\ +5.6\\ +2.3\\ +12.5\\ +12.5\\ +12.5\\ +2.$
and deriver or surgius 0-5 services Deficit 5% or more  Deficit 5% or more  laty services  laty services  laty services   Deficit 9% or more   Deficit 9% or more       	Total \$13.96 14.63 14.74 13.69 16.01 17.69 15.69 15.86 17.36 19.12 17.36 19.12 17.36 19.12 17.85 19.12 17.69 23.90 25.94 23.95 23.94 23.94 23.95 23.94 23.95 23.94 23.95 23.94 23.95 25.95 2	Payr 4 7 7 8 9 10 9 11 10 9 12 14	3 746547 802251 288849 545	0tha \$6.3 6.9 6.4 6.4 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	a part of the second se	ant a1 277 330 3922 98 68 78 850	permiperi permi	onne1 100 euts 44 51 57 44 63 57 66 79 77 6 36 79 77 6 36 70 77 6 36 70 77 76 53 71 11 11 11 11 11 11 11 11 11	An parcent of copense + 5.8 + 2.1 + 10.9 - 2.2 + 2.1 + 10.9 - 11.2 - 1.6 + 2.3 + 1.9 + 2.5 + 1.9 + 2.5 + 1.9 + 2.5 + 1.9 + 2.5 + 1.9 + 2.5 - 1.9 - 1.9
and deriver or surplus 0-5 services 0-5 services 0-5 services 0-5 services 0-5 services 0-5 services 0-5 services 0-5 services 0-9 s	Total \$13.96 14.43 14.43 14.43 14.43 13.69 15.51 15.51 15.51 17.93 17.36 17.36 17.36 17.36 17.36 17.36 17.36 17.36 17.36 17.36 15.51 17.45 17.45 1	Payr 4 7 7 7 7 7 7 7 7	3 746547 802851 888448 5488	0tha \$6.7 6.8 6.4 6.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	a part of the second se	ant 27733 03922 98687 8505	permipering permip	onne1 100 ents day 44 51 57 44 53 57 63 57 63 57 63 65 70 77 63 70 77 63 70 77 63 70 77 63 70 77 63 70 77 76 70 77 76 77 76 77 77 77 77 77 77	An parcent of copense + 5.8 - 10.9 - 2.2 + 2.1 + 5.6 - 2.2 + 2.1 + 1.6 + 2.3 + 1.6 + 2.3 + 1.6 + 2.3 + 2.4 - 1.6 + 2.3 + 2.5 +

Suble 11. Arwange rates for 1,515 momprofit 1/ short-term general hospitals, by number of selected services and deficit or surplus: 1551

1/ Excluses Catholic and government hospitals.
2/ See table 8 for listing of services.

Table 12. Average rates for 1,515 monorofit 1/ short-term general hospitals, by mamber of selected services and expense per patient day: 1951

					-					-	
Number of services 2/ and expanse per potient day	Number of hospi- tals	Occa- pancy pate	Ave ler of (dr	arage igth stay iy=)	r	ots1	Ta	tient	Other		Patient so percent of total
0-5 mervices: Lens thai \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	113 120 55 21	62.1 60.7 62.5 60.7	1000	.0	\$	10.65 14.56 18.55 24.72	112	9.9h 3.73 7.19 2.75	\$ .71 .83 1.30 1.97		93.4 94.3 92.6 92.0
6-9 mervices: Lens then \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	95 245 142 98	71.6 71.8 71.5 68.6	1705	1.6 1.0 5.8		11.31 14.84 18.60 14.52	11111	1.67 7.49	.96 1.17 1.19 1.78		91.5 92.1 93.6 92.7
10-13 services: Lees than \$12-00 \$12-00-\$15-99 \$16.00-\$19-99 \$20.00 or more	25 125 135 115	77.5 78.1 77.6 75.4	8.3 8.1 7.8 7.2		11.83 15.04 18.72 24.52		10.20 13.69 17.32 21.68		1.63 1.15 1.40 2.84		86.2 92-3 92-5 88.4
14-19 services: Lens than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	43 66 117	85.1 77.9 78.3 78.3	10.0 9.6 9.2 9.4		).0 1 ).6 1 9.2 1 9.4 2		12.04 14.84 13.08 18.53 16.06 25.25 20.78		1.49 1.76 2.47 4.47		87.9 88.1 85.6 86.3
Sumber of nervices 2/ and expense per patient day	Sx Totel	Pays	97 P	Othe	r	ny Payre as perce of bots	11 at	Fall pers pers pati	-time id concel 100 conts day	000	eficit- wrplus no ercent of
0+5 serviceo: Leas tian \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	\$ 9.81 13.83 17.82 23.46	\$ 5. 7. 9. 13.	32 50 71	\$4. 6. 8. 10.	49 43 11 34	91-3 53-5 59-5 55-5		1	17 h4 66 06		+ 8.6 + 5.3 + 4.1 + 5.5
6-9 services: Less than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	10.19 14.05 17.72 83.68	5. 7. 9. 13.	31 68 71 43	4. 6. 8. 10.	88 37 01 19	52.3 59.5 59.5 59.5 59.5		1	32 51 78 03		+11.0 + 5.6 + 5.4 + 3.8
10-13 services: Lees than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	10.56 14.25 17.86 23.28	5. 7. 10. 13.	9/8 21 60	5.67.9	66 41 61 63	登山 外市 57日 月 月		111	26 60 81 107		+12.0 + 5.6 + 4.8 + 5.3
14-19 services: Lees than \$12.00 \$12.00-\$15.99 \$16.00-\$19.99 \$20.00 or more	11.36 14.50 18.21 25.25	5 7 10 15	57 93 41 82	5. 6. 7. 10.	1957B03	19-0 19-17-0 19-17-0		1	23 70 93 30		+ 6.0 + 2.4 + 1.8 - 3/

1/ Excludes Catholic and government hospitals. 2/ See table g for listing of services. 3/ Less than .05 percent.

The importance of the number of services as an explanatory factor in cast differentials among bargetial lead to as a constantiation factor in cast differentials among bargetial lead to as a constantiation for the service of the service service and the service of the differential services in the service service of the services weather of the services is held constant, heapital with four imports of services is held constant, heapital with dism income from patient over a sequence of the services when the number of services is held constant, heapital with dism income from patient sources and high pr different sequences.

Similarly table 12 can be compared with table 6. Arnong hospitsis with a similar number of services, those with relatively high per diem expense tend to have low occupancy, short duration of stay, high income from all sources, a high percentage of expenditures shorthed by avroll, and a high ratio of servennet to patients.

### Summary and Conclusions

The relationship between various characteristics of nonprofit here/tarm general hexpits and the level of expense par pattern day as well is the presence and magnitude of deficits or swriters in a reported level framework of the start of the start and the start of the start of the start of the start and the start of the start of the start of the start tion. Since the more imported the acteristical depictul are closely related to bed expecting and to the scope different more instruction and the same number of exercises with institute bed expecting and to the same number of exercises.

As compared with small hospitals, he large hospitals show high occupancy rates, long cartison of star, high per disc microsoft both from pilot and or other sources, high segmese per patient means and the sources of the sources of the sources of the personnel is relation to patients, and a less favorable financial bainces. Parthermore, the proportion of totil corpone devide from patients tends to be low and they propertion of totil corpone absorbed by payrell tends to be high in the large hospitals.

When the hospitals are classified by scope of program, as measured by 19 solicid services, for several raises vary with member of services in the same manner as with hospital size. The accept of program is courted prevail, the hospital which have iow per diamond the several several several several several shoung an single radius and the several several several broad program. Eccause first has de noisaarch for severation of a function of the several several several several several militation of the several One out of four hospitals has a deficit in income in relation to expense, deficit hosing statisticy more prevalent among the larger hospitals. When bed capacity or number of services is hold constant, the hospital with deficits have low occupacy rates, long sevage duration of stay. Joseph and the service of the sevent of the sevent sevent is a sevent sevent sevent sevent full time present in relation to patients.

Mearly one-fourth of the hospitals speed \$20 or more purp saited day, non-half of hose in the ingreat isse group have this high an express that. Among hospitals of how by the occupancy raise, short details of a say, high homeon per particularly (including incomes from patient serves and from there sources), a large number of empatient serves and from there sources), a large number of emtantices. When being any state of the sources and patient serves all held constant, the hospital's with deficit have low occupancy relations from the sources and part dem sources are all held constant, the hospital's with deficit have low occupancy relations from the sources and part dem home home home home home home sources. The source of the source of the source of the sources and part dem home of the sources and part dem home home home home sources and the source of the source of the sources of the sources of the source of the sources of the source of the sources of the source of the source of the source of the sources of the sources of the sources of the source of the source of the sources of the sources of the sources of the sources of the source of the sources of the

The function of a hospital is to provide acrivice to the community in accordance with accepted medical practices. The provision of such acrice in the long run trust be balanced by income, Faced restrict its program or to operate at a deficit. Hospitals which provide a broad scope of service and therefore have high expense runs as the service is ad deficit under present system of hospital

Since the level of per dism expense is closely related to the cope of the hospital service program, evaluation of costs in some services being offered. The attempt made in this paper to measure hospital service programs in relation to cost indicates that this type of measurement is feasible. More refined methods the scope of their programs.