TRANSACTIONS OF SOCIETY OF ACTUARIES 1967 REPORTS

II. EXPERIENCE UNDER INDIVIDUAL MEDICAL EXPENSE POLICIES, 1964–65

HIS report presents an analysis of morbidity experience under individual medical expense policies during the calendar years 1964 and 1965. The experience on lives covered under family and individual policies was combined. No differentiation was made by the types of renewal provision either contained in the contracts or followed in their administration. Payments made to the end of the calendar year following the year in which a claim was incurred are included; estimates of future payments on claims pending at the end of this period are included on major medical claims only.

Policies without a deductible were analyzed separately from those with a deductible, and, as to the latter, account was taken of the amount of the deductible. Data on policies with a deductible were submitted only if the deductible applied to all benefits under the policy except the maternity benefit. Only data on claims which were in excess of the deductible are included; claim data reflect amounts of eligible medical expenses before the application of the deductible, except in the study of major medical benefits.

Excluded from the investigation were the following:

- 1. Franchise and wholesale insurance.
- 2. Conversions from group insurance.
- 3. Policies issued with an extra premium unless such policies constituted a very small proportion of the contributing company's total business. (Policies issued with a medical impairment rider, but without an extra premium, were included in the study.)
- 4. Policies issued at senior ages on a mass enrollment basis, without evidence of insurability.

In the sections on frequency of hospitalization and average amount of hospital claim, only inpatient claims are included. The section on miscellaneous hospital expense benefit includes data on both inpatient and outpatient hospital claims. The section on surgery includes data on surgery performed both in and out of the hospital, and the section on major medical insurance includes data on services performed both in and out of the hospital.

Maternity claims were excluded except in the section dealing specifically with maternity expense benefits.

Unless otherwise indicated, data shown are for all durations combined. The duration is a calendar-year duration rather than a policy-year duration and is determined by subtracting the calendar year of issue from the calendar year of experience. Companies were requested not to submit data for duration 0 (the calendar year in which a policy was issued).

CONTRIBUTING COMPANIES

The following twenty companies contributed data to one or more sections of this report:

Connecticut General Life Insurance Company Continental Assurance Company General American Life Insurance Company Great-West Life Assurance Company John Hancock Mutual Life Insurance Company Liberty Life Insurance Company Life Insurance Company of Virginia Lincoln National Life Insurance Company Metropolitan Life Insurance Company Mutual Life Insurance Company of New York Mutual of Omaha Insurance Company New York Life Insurance Company Pacific Mutual Life Insurance Company Provident Mutual Life Insurance Company of Philadelphia Prudential Insurance Company of America Standard Insurance Company Travelers Insurance Company Union Mutual Life Insurance Company Western and Southern Life Insurance Company Woodmen Accident and Life Company

HOSPITAL ROOM AND BOARD BENEFIT

Seventeen companies contributed experience to this section of the study. The distribution of claims by maximum benefit period is as shown in the tabulation on page 78.

The frequency of hospitalization is based on the combined experience for all maximum benefit periods and was obtained by dividing the amount of daily hospital benefit in force on nonmaternity hospitalization claims by the amount of daily benefit exposed.

The average claim per \$1 of daily hospital benefit was obtained by dividing the amount paid for hospital room and board by the amount of daily hospital benefit in force on nonmaternity hospitalization claims.

In order to include in Table 1 all data and show the effect of limiting the length of the benefit period, data for maximum benefit periods of 28-45 days were adjusted to a 31-day period, those for 50-150-day periods to a 90-day period, and those for periods over 150 days to a 365-day period. Table 3 was derived by adjusting all maximum benefit periods to a 90-day period. The adjustments were made based on the conversion tables shown on page 137 of TSA, 1963 Reports.

	Maximum Benefit Period Number of Days	Daily Hospital Benefit In Force on Hospital- ization Claims
28.		\$ 12,414
30		2,333,195
31		191,275
35		824,794
40		2,616
42		284,396
45		117,341
50		39,785
52		3,650
60		41,929
75	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,372
90		2,580,203
100		496,171
120		1,184,167
150		94,378
180		232,966
240		96,700
365		1,758,529
500		1,987,383
	Total	\$12,283,264

Annual claim costs were obtained by multiplying the frequencies of hospitalization by the corresponding average amounts of claim.

Table 1 shows, for policies with no deductible, the frequency of hospitalization, the average claim, and the average claim costs per \$1 of daily hospital benefit for adjusted maximum benefit periods of 31, 90, and 365 days. Because the data are not homogeneous, the values in Table 1 are not too smooth. In general, the claim costs increase as the adjusted maximum benefit period increases, and the claim costs for each adjusted maximum benefit period increase as the age increases. Below age 55 the claim costs for males are lower than for females, while above age 55 the relation is reversed.

TABLE 1

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES FREQUENCY OF HOSPITALIZATION; AVERAGE CLAIM AND CLAIM COST PER \$1 OF DAILY HOSPITAL BENEFIT FOR ADJUSTED MAXIMUM BENEFIT PERIODS OF 31, 90, AND 365 DAYS NO DEDUCTIBLE

ATTAINED	FREQUENCY OF	l	CLAIM FOR M BENEFIT P		CLAIM COST FOR ADJUSTED MAXIMUM BENEFIT PERIOD OF:			
AGE	HOSPITAL- IZATION	31 Days	90 Days	365 Days	31 Days	90 Days	365 Days	
				Male				
15-19	.1191 .0712 .0690 .0737 .0877 .0946 .1080 .1258 .1419 .1588 .1677 .1972 .2389	\$ 5.34 5.71 5.66 5.88 6.47 7.27 7.85 8.59 9.48 10.04 10.79 11.47 12.09	\$ 5.96 6.02 6.08 6.52 7.04 7.67 8.39 9.29 10.39 10.99 11.65 13.32 13.77	\$ 6.09 6.84 6.78 6.61 7.56 7.67 8.82 9.19 10.43 10.93 12.27 15.53 14.50	\$.636 .407 .391 .433 .567 .688 .848 1.081 1.345 1.594 1.809 2.262 2.888	\$.710 .429 .420 .481 .617 .726 .906 1.169 1.474 1.745 1.954 2.627 3.290	\$.725 .487 .468 .487 .663 .726 .953 1.156 1.480 1.736 2.058 3.063 3.464	
				Female	·		<u> </u>	
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1323 .1001 .1095 .1278 .1367 .1520 .1531 .1475 .1395 .1398 .1561 .1727 .2083	\$ 4.76 5.50 6.18 6.53 7.15 7.70 8.00 8.63 9.15 9.97 10.66 11.57 12.57	\$ 5.04 5.73 6.69 7.21 7.45 8.09 8.50 9.10 9.96 10.75 11.63 10.32 14.87	\$ 4.95 5.76 6.44 6.94 7.48 8.17 8.40 9.21 9.91 10.85 12.67 16.40 16.10	\$.630 .551 .677 .835 .977 1.170 1.225 1.273 1.276 1.394 1.664 1.998 2.618	\$.667 .574 .733 .921 1 .018 1 .230 1 .301 1 .342 1 .389 1 .503 1 .815 1 .782 3 .097	\$.655 .577 .705 .887 1.023 1.242 1.286 1.358 1.382 1.517 1.978 2.832 3.354	
		1	1	Child	1	T	1	
All ages	.0865	\$ 4.18	\$ 4.30	\$ 4.37	\$.362	\$.372	\$.378	

TABLE 2

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
FREQUENCY OF HOSPITALIZATION; AVERAGE CLAIM AND
CLAIM COST PER \$1 OF DAILY HOSPITAL BENEFIT
NO DEDUCTIBLE

ATTAINED	Frequency of Hospi-		CLAIM FOR A	-		Cost for a N	-
Age	TALIZATION	30 Days	90 Days	365 Days	30 Days	90 Days	365 Days
				Male			
15-19. 20-24. 25-29. 30-34. 35-39. 40-44. 45. 49. 55-59. 60-64. 65-69. 70-74. 75-79.	0946 1080 1258 1419 1588 1677 1972	\$ 5.38 5.55 5.42 5.85 6.34 7.13 7.67 8.19 9.18 9.62 10.30 10.86 11.80	\$ 5.76 6.05 5.65 6.10 6.77 7.41 8.24 8.86 10.07 10.69 11.45 12.36 13.73	\$ 6.27 7.06 7.40 7.00 8.40 7.97 9.56 9.88 10.47 11.72 14.35 13.39 14.74	\$.641 .395 .374 .431 .556 .674 .828 1 .030 1 .303 1 .528 1 .727 2 .142 2 .819	\$ 686 .431 .390 .450 .594 .701 .890 1.115 1.429 1.698 1.920 2.437 3.280	\$.747 .503 .511 .516 .737 .754 1.032 1.243 1.486 1.861 2.406 2.641 3.521
				Female			
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1323 .1001 .1095 .1278 .1367 .1520 .1531 .1475 .1395 .1398 .1561 .1727 .2083	\$ 4.71 5.22 5.91 6.43 6.89 7.42 7.71 8.29 8.87 9.56 10.22 11.18 12.27	\$ 5.00 5.41 6.29 6.61 7.14 7.84 8.14 8.85 9.65 10.48 11.46 13.10 14.89	\$ 4.94 5.96 6.56 7.26 7.87 8.53 8.76 9.84 10.54 11.29 12.15 14.00 16.31	\$.623 .523 .647 .822 .942 1.128 1.180 1.223 1.237 1.336 1.595 1.931 2.556	\$.662 .542 .689 .845 .976 1.192 1.246 1.305 1.346 1.465 1.789 2.262 3.102	\$.654 .597 .718 .928 1.076 1.297 1.341 1.451 1.470 1.578 1.897 2.418 3.397
				Child			
All ages	.0865	\$ 4.08	\$ 4.23	\$ 4.45	\$.353	\$.366	\$.385

Table 2 shows the experience on policies with 30-, 90-, and 365-day maximum benefit periods. The experience under these policies follows the same pattern shown in Table 1.

Table 3 shows, for policies with no deductible and those with \$25 or \$50 deductibles, data for an adjusted maximum benefit period of 90 days. If the data entering this table were homogeneous, the frequency of hospitalization should be smaller, the average claim larger, and the claim cost smaller on policies with a \$50 deductible than on policies with no deductible; and the experience on policies with a \$25 deductible should lie between the other two. However, because of the lack of homogeneity and the small volume of experience for the \$25 and \$50 deductibles, only the frequency of hospitalization follows this pattern closely. As an indication of the relations shown by homogeneous data, reference should be made to the experience of one large company, which appears in TSA, 1963 Reports (p. 141, Table 3).

Table 4 compares the experience shown in Table 3 for policies with no deductible with the 1962–63 Intercompany Experience and with the 1956 Intercompany Hospital Table. For males and females, the frequencies and claim costs for the 1964–65 experience are higher than those for 1962–63, but the average claims have generally remained at the same level. All categories have increased for children. Ratios of 1964–65 experience to 1962–63 experience for all ages combined are shown in the following tabulation:

	Fre-	Average	Claim
	quencies	Claims	Costs
Males	105%	99%	104%
	103	99	101
	102	102	104

An analysis by duration was made of the experience on policies with no deductible. Ratios of actual claim costs to claim costs for duration 3 and later are shown in the following tabulation:

Duration	Males	Females	All Adults	Children	Total
1	56% 76 100	65% 81 100	61% 79 100	110% 104 100	63% 79 100
All durations	85%	89%	87%	104%	87%

TABLE 3

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
FREQUENCY OF HOSPITALIZATION; AVERAGE CLAIM AND
CLAIM COST PER \$1 OF DAILY HOSPITAL BENEFIT FOR
ADJUSTED MAXIMUM BENEFIT PERIOD OF 90 DAYS

	N	o Deduct	IBLE	\$25 Deductible			\$50 DEDUCTIBLE		
ATTAINED AGE	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost
					Male				
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1191 .0712 .0690 .0737 .0877 .0946 .1080 .1258 .1419 .1588 .1677 .1972 .2389	6.25 6.23 6.39 7.08 7 61 8.44 9.16 10.29 10.92 11.87 13.41	\$.691 .445 .430 .471 .621 .720 .912 1 .152 1 .460 1 .734 1 .991 2 .644 3 .266	0626 0616 0590 0639 0700 0917 0905 1155 1417 1554 1599 1830 2339	\$10.10 6.74 7.12 7.42 6.58 9.27 8.66 9.45 10.35 11.78 12.68 14.71 15.60	\$.632 .415 .420 .474 .461 .850 .784 1 .091 1 .467 1 .831 2 .028 2 .692 3 .649	.0705 .0524 .0501 .0530 .0651 .0643 .0796 .0941 .1043 .1207 .1222 .1601 .1773	6.53 7.80 8.72 9.24 9.22 10.49 11.93 13.41	\$.384 .293 .302 .338 .425 .502 .694 .869 .962 1 .266 1 .458 2 .147 2 .631
					Female	in the same			
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1323 .1001 .1095 .1278 .1367 .1520 .1531 .1475 .1395 .1398 .1561 .1727 .2083	5.66 6.44 6.94 7.40 8.03 8.37 9.06 9.79 10.69 11.70 13.90	\$.650 .567 .705 .887 1.012 1.221 1.281 1.336 1.366 1.494 1.826 2.401 3.004	.0933 .0895 .0956 .1279 .1326 .1498 .1519 .1462 .1378 .1340 .1617 .1797 .1968	6.46 7.93 7.24 7.78 8.24 8.43 10.66 10.45 10.89 12.79 13.88	\$.599 .578 .758 .926 1 .032 1 .234 1 .281 1 .558 1 .440 1 .459 2 .068 2 .494 2 .867	.0850 .0763 .0833 .0921 .1063 .1154 .1280 .1149 .1072 .1092 .1070 .1327 .1553	5.68 6.02 6.36 7.38 7.35 7.71 9.06 9.48 10.24 10.39 13.07	\$.392 .433 .501 .586 .784 .848 .987 1.041 1.016 1.118 1.112 1.734 2.294
					Child				
All ages	.0865	\$ 4.28	\$.370	.0750	\$ 4.73	\$.355	.0618	\$ 4.23	\$.261

Note.—For policies with a deductible, average claim and claim cost reflect eligible expenses before application of the deductible; frequency involves only claims where the total eligible policy expenses exceed the policy deductible.

TABLE 4

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES COMPARISON WITH 1962-63 INTERCOMPANY EXPERIENCE AND 1956 INTERCOMPANY HOSPITAL TABLE

FREQUENCY OF HOSPITALIZATION; AVERAGE CLAIM AND CLAIM COST PER \$1 OF DAILY HOSPITAL BENEFIT ADJUSTED MAXIMUM BENEFIT PERIOD OF 90 DAYS NO DEDUCTIBLE

Attained		1964-65 NTERCOMPA EXPERIENCE	NY		RATIO OF 1964-65 EXPERIENCE TO 1962-63 EXPERIENCE			RATIO OF 1964-65 EXPERIENCE TO 1956 TABLE		
Age	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	
			·		Male			·		
15–19 20–24 25–29 30–34 35–39 40–44 45–49 50–54 55–59 60–64 66–69 70–74 75–79	.1191 .0712 .0690 .0737 .0877 .0946 .1080 .1258 .1419 .1588 .1677 .1972 .2389	6.25 6.23 6.39 7.08 7.61 8.44 9.16 10.29 10.92 11.87 13.41	\$.691 .445 .430 .471 .621 .720 .912 1 .152 1 .460 1 .734 1 .991 2 .644 3 .266	1.19 1.01 1.05 1.03 1.07 1.02 1.02 1.02 1.04 1.05 1.04	1.08 1.02 99 96 98 98 99 98 98 97 1.00	1.28 1.03 1.04 .99 1.04 1.00 1.01 1.00 1.02 1.03 1.04 1.09 1.04	1.52 .91 .91 .99 1.10 1.06 1.08 1.09 1.06 1.03 1.01 1.14	.78 .84 .82 .80 .76 .75 .74 .82 .84 .86 .78	1.18 .76 .75 .78 .87 .81 .81 .82 .87 .88 .86	
İ			71		Female					
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 66-64 65-69 70-74 75-79	.1323 .1001 .1095 .1278 .1367 .1520 .1531 .1475 .1395 .1398 .1561 .1727 .2083	5.66 6.44 6.94 7.40 8.03 8.37 9.06 9.79 10.69 11.70 13.90	\$.650 .567 .705 .887 1.012 1.221 1.281 1.336 1.366 1.494 1.826 2.401 3.004	1.20 1.03 1.00 1.04 .99 1.02 1.01 1.01 1.01 1.05 1.06 1.05	.99 1.00 .99 .98 .97 1.00 .98 .98 .99 1.00 .97	1.19 1.03 .99 1.02 .96 1.02 .98 1.00 1.00 1.01 1.06 1.03 1.01	1.41 1.01 .98 1.05 1.05 1.10 1.05 .97 .88 .86 .93 1.00 1.19	.68 .77 .83 .84 .86 .84 .86 .86 .85 .81	.96 .77 .81 .89 .88 .944 .88 .76 .75 .80	
					Child					
All ages	.0865	\$ 4.28	\$.370	1.02	1.02	1.04	N	ot availa	ıble	

GRADUATED 1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES

FREQUENCY OF HOSPITALIZATION; AVERAGE CLAIM AND CLAIM COST PER \$1 OF DAILY HOSPITAL BENEFIT

NO DEDUCTIBLE

MAXIMUM BENEFIT PERIOD OF 90 DAYS

Attained Age	Frequency	Average Claim	Claim Cost
		Male	<u>'</u>
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1109 .0806 .0698 .0736 .0844 .0954 .1090 .1251 .1410 .1560 .1721 .1995 .2358	\$ 5.79 6.13 6.27 6.51 7.02 7.64 8.40 9.23 10.16 11.01 12.02 13.11 13.81	\$.642 .494 .438 .479 .592 .729 .916 1 .155 1 .433 1 .718 2 .069 2 .615 3 .256
		Female	
15-19. 20-24. 25-29. 30-34. 35-39. 40-44. 45-49. 50-54. 55-59. 60-64. 65-69. 70-74. 75-79.	.1246 .1093 .1113 .1247 .1381 .1492 .1516 .1468 .1469 .1423 .1549 .1758 .2053	\$ 4.88 5.68 6.39 6.95 7.44 7.95 8.43 9.04 9.78 10.72 11.96 13.49 14.57	\$.608 .621 .711 .867 1 .027 1 .186 1 .278 1 .327 1 .378 1 .525 1 .853 2 .372 2 .991
		Child	
All ages	. 0865	\$ 4.28	\$.370

Table 5 contains a graduation of the crude frequencies and average claims of Table 3 for policies with no deductible. Claim costs in Table 5 are derived as a product of these functions.

MISCELLANEOUS HOSPITAL EXPENSE BENEFIT

Sixteen companies contributed to this section of the study. Although there were over 735,000 claims, much of the data lacked sufficient homogeneity to incorporate into tables which would be meaningful and useful. It was deemed necessary, as was the case with the 1960–61 and 1962–63 studies, to build the study around the \$100 maximum benefit.

Table 6 shows the average claim for a \$100 maximum benefit on policies with no deductible. Graduated average claims are also shown and are used as a basis of comparison in subsequent tables and analyses.

Table 7 shows the graduated frequencies of hospitalization, the graduated average claims, and the claim costs for a \$100 maximum benefit. The frequencies of hospitalization are the same as those shown in Table 5, and the average claims are the same as those shown in Table 6. The claim cost is the product of the frequency and the average claim.

Table 8 shows a comparison of the actual 1964–65 experience for a \$100 maximum benefit on policies with no deductible with the corresponding 1962–63 experience and with the 1956 Intercompany Hospital Table. The frequencies of hospitalization are the same as those shown in Table 4. The claim costs for the 1964–65 experience are about 9 per cent higher than those for the 1962–63 experience. About half of this increase comes from higher frequencies of hospitalization, and about half comes from higher average claim amounts.

Table 9 shows the relationship of average claims for other maximum benefit amounts for which there were two hundred or more claims to those for the \$100 maximum benefit amount. It also indicates to what extent each experience cell consists of the experience of a single company and the number of companies contributing to each cell. The \$100 maximum benefit cell had the largest number of claims and the largest number of contributing companies, and, of those cells with a large number of claims, it had the smallest proportion of experience from its largest single contributor.

Table 10 indicates the range in the level of average claims experience for the \$100 maximum benefit amount among companies offering that maximum. The level of the ratios of actual to tabular for males and females for any single company is quite consistent but varies considerably from one company to another.

TABLE 6

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MISCELLANEOUS HOSPITAL EXPENSE BENEFIT INPATIENT ONLY; AVERAGE CLAIM NO DEDUCTIBLE—\$100 MAXIMUM BENEFIT

Attained		Averagi	e Claim
AGE	No. Claims	Actual	Graduated
		Male	
15-19	449	\$66.37	\$ 66.50
20-24	3,323	71.31	71.12
25-29	2,457	73.37	73.03
30–34	1,801	73.34	74.46
35-39	1,761	76.87	76.49
0-44	1,779	78.57	78.51
5-49	2,235	79.95	80.10
60-54	3,023	82.15	82.00
55–59	3,632	83.47	83.35
60–64 <i></i>	3,658	83.74	83.94
55–69	2,653	84.63	84.50
70-74	2,306	84.46	84.50
75-79	1,179	84.33	84.50
Total	30,256		
		Female	
15–19	896	\$65.76	\$65.96
20–24	4,296	73.30	73.16
25–29	2,750	76.53	76.49
30–34	2,401	79.97	79.56
35–39		80.01	81.00
55–59	2,680 3,731	82.69	82.40
15–49	4,872	82.83	82.40 82.78
50-54	6,097	82.69	82.78
55–59	6,446	83.51	83.14
50–64	5,859	83.03	83.14
65-69	4,813	83.51	83.14
70–74	3,766	83.33	83.14
75–79	1,822	81.58	83.14
Total	50,429		
		Child	
All ages	14,435	\$63.28	\$63.28

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES GRADUATED FREQUENCY OF HOSPITALIZATION GRADUATED AVERAGE CLAIM AND CLAIM COST \$100 MAXIMUM MISCELLANEOUS HOSPITAL

EXPENSE BENEFIT

INPATIENT ONLY; NO DEDUCTIBLE

Attained Age	Frequency	Average Claim	Claim Cost
		Male	·
5-19 0-24 5-29 0-34 5-39 0-44 5-49 0-54 0-54 5-59 0-64 5-69 0-74 5-79	.1109 .0806 .0698 .0736 .0844 .0954 .1090 .1251 .1410 .1560 .1721 .1995 .2358	\$66.50 71.12 73.03 74.46 76.49 78.51 80.10 82.00 83.35 83.94 84.50 84.50	\$ 7.37 5.73 5.10 5.48 6.46 7.49 8.73 10.26 11.75 13.09 14.54 16.86 19.93
		Female	
5-19 :0-24 :15-29 :0-34 :15-39 :0-44 :15-49 :0-54 :0-59 :0-64 :5-69 :0-74 :5-79	.1246 .1093 .1113 .1247 .1381 .1492 .1516 .1468 .1409 .1423 .1549 .1758 .2053	\$65.96 73.16 76.49 79.56 81.00 82.40 82.78 82.95 83.14 83.14 83.14 83.14	\$ 8.22 8.00 8.51 9.92 11.19 12.29 12.55 12.18 11.71 11.83 12.88 14.62 17.07
		Child	
All ages	. 0865	\$63.28	\$ 5.47

TABLE 8

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES COMPARISON WITH 1962-63 INTERCOMPANY EXPERIENCE AND 1956 INTERCOMPANY HOSPITAL TABLE \$100 MAXIMUM MISCELLANEOUS HOSPITAL EXPENSE BENEFIT

INPATIENT ONLY NO DEDUCTIBLE

Attained	1964–65 Intercompany Experience			RATIO OF 1964-65 EXPERIENCE TO 1962-63 EXPERIENCE			RATIO OF 1964–65 EXPERIENCE TO 1956 TABLE		
Age	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost
					Male				
15-19 20 24 25 29 30 34 35-39 40-44 45-49 55-59 60-64 65-69 70-74 75-79	.0712 .0690 .0737	73.34 76.87 78.57	\$ 7.90 5.08 5.06 5.41 6.74 7.43 8.63 10.33 11.84 13.30 14.19 16.66 20.15	1 .19 1 .01 1 .05 1 .03 1 .07 1 .02 1 .02 1 .02 1 .04 1 .05 1 .04	1.08 1.05 1.05 1.03 1.05 1.04 1.03 1.05 1.03 1.05 1.03 1.03	1.28 1.07 1.10 1.06 1.12 1.07 1.04 1.06 1.09 1.09 1.15 1.10	1.52 .91 .99 1.10 1.06 1.08 1.09 1.06 1.03 1.01 1.14 1.36	1.06 1.12 1.09 1.04 1.05 1.02 1.00 .99 .97 .94 .91 .88 .85	1.61 1.02 1.00 1.03 1.15 1.09 1.08 1.08 1.03 -97 92 1.01 1.16
					Female				
15-19 20-24 25-29 30-34 35-39 40-44 45-49 55-54 55-59 60-64 65-69 70-74 75-79	.1323 .1001 .1095 .1278 .1367 .1520 .1531 .1475 .1395 .1398 .1561 .1727 .2083	82.83 82.69 83.51 83.03 83.51 83.33	\$ 8.70 7.34 8.38 10.22 10.94 12.57 12.68 12.20 11.65 11.61 13.04 14.39 16.99	1.20 1.03 1.00 1.04 .99 1.02 1.01 1.01 1.01 1.05 1.06 1.05	1.08 1.08 1.05 1.07 1.03 1.05 1.05 1.03 1.05 1.05 1.03	1.30 1.11 1.05 1.11 1.02 1.07 1.05 1.06 1.06 1.09 1.13	1.41 1.01 .98 1.05 1.05 1.10 1.05 97 .88 .86 .93 1.00 1.19	1.05 1.15 1.14 1.14 1.09 1.08 1.04 1.00 .97 .93 .90 .87	1.49 1.16 1.12 1.20 1.14 1.18 1.09 .97 .86 .80 .84 .87
					Child				
All ages	. 0865	\$63.28	\$ 5.47	1.02	1.09	1.12	N	ot availa	ble

Table 11 shows that the average claim increases more rapidly by age as the maximum amount increases. The ratios in the table were derived from data obtained by truncating the claims of a single company (which had a \$1,225 maximum for this benefit) at \$100, \$150, \$200, \$250, and \$300.

Table 12 shows the experience of one company for a number of maximum benefit amounts issued with \$0 and \$50 deductibles. As expected,

TABLE 9

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
MISCELLANEOUS HOSPITAL EXPENSE BENEFIT
INPATIENT ONLY
VARIATION IN AVERAGE CLAIM BY MAXIMUM BENEFIT AMOUNT
NO DEDUCTIBLE

Maximum Benepit Amount		Nume	BER OF CL	AIMS	PROPORTION BY NUMBER OF CLAIMS OF EXPERIENCE FROM LARGEST SINGLE	NUMBER OF CON- TRIBUTORS WITH CLAIMS	RATIO OF ACTUAL TO TABULAR*		
		Male Female		Child	CONTRIBUTOR (PER CENT)	CLAIMS	Male	Female	Child
\$	50	4,342 3,080 123 5,703 334 5,741 30,399 271 6,183 26,536 1,715 127 28,344 1,715 6,186 22,458 25,468 6,010 711 83 4,329 284 1,045 1,045 1,045 273	1,094 46,261 3,299 255 49,935 327 10,734 39,101 43,306 8,131 139 97 5,376 163 1,283 213	212 7,054 10,450 13,658 5,422 48 26 3,041 107 495 102 77	71.9 100.0 92.7 100.0 78.8 97.1 63.9 73.3 54.7 97.0 95.3 83.3 100.0 65.5 63.6 87.4 100.0 65.7	55 4 36 65 13 1 11 55 11 36 61 11 23 61 41 2	. 490 . 684 . 783 . 546 . 866 . 988 1 . 000 . 592 1 . 254 1 . 099 1 . 274 1 . 427 1 . 522 1 . 464 1 . 798 1 . 631 1 . 907 1 . 728 2 . 080 1 . 963 2 . 216 2 . 185 2 .	1.088 1.293 1.419 1.577 1.475 1.746 1.691 1.552 1.952 1.888 2.068 2.053 2.142 2.219 2.011 2.353	. 824 . 983 1.103 1.000 1.248 . 639 1.140 1.336 1.260 1.217 1.358 1.395 1.174 1.215 1.498 1.414 1.471 1.533 1.779 1.746 1.168 1.174 1.168 1.174
1	,225 Total	$\frac{21,477}{201,719}$	37,281	9,868	100.0	1	1.946	1.853	

^{*} Tabular based on graduated average claim for \$100 maximum benefit shown in Table 6.

the average claim before application of the deductible is generally larger on policies with the deductible, and the difference appears to become greater as the maximum amount of benefit increases.

The experience of several companies with an outpatient benefit is compared in Table 13 with their corresponding experience under the inpatient-only benefit for the \$100 and \$200 maximum benefit amounts. If outpatient claims are included, the average claims for children are reduced considerably, while the average claims for females are reduced only

TABLE 10

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
MISCELLANEOUS HOSPITAL EXPENSE BENEFIT
INPATIENT ONLY
VARIATION IN AVERAGE CLAIM BY CONTRIBUTING COMPANY
NO DEDUCTIBLE—\$100 MAXIMUM BENEFIT

CCMPANY	Nu	MBER OF CLAI	IMS	RATIO OF ACTUAL TO TABULAR*			
CUREAN	Male	Female	Child	Male	Female	Child	
\	1,133	2,624	1,071	1.065	1.068	1.147	
3,	267	332	255	1.021	1.026	1.051	
	302	384	70	1.107	1.079	1.162	
O	59	142	76	1.165	1.137	1.195	
S [154	234	35	1.093	1.073	1.211	
,	10	6	1 1	. 925	.990	. 794	
3	80	187	78	1.004	1.003	1.047	
I	301	439	125	1.057	1.048	1.081	
	2,821	3,727	1,022	. 871	.870	. 870	
	153	287	134	1.081	1.059	1.159	
C. [255	428	378	1.099	1.155	1.187	
	3,387	4,538	1,322	1.000	1.001	1.058	
И	21,477	37,281	9,868	1.007	1.003	.974	
Total	30,399	50,609	14,435	1.000	1.000	1.000	

^{*} Tabular based on graduated average claim for \$100 maximum benefit shown in Table 6.

slightly. Including outpatient claims reduces the average claims for males much more under the \$200 maximum benefit than under the \$100 maximum benefit.

The claim cost for the miscellaneous hospital expense inpatient benefit can be modified to include outpatient benefits as well, by multiplying the claim cost for inpatient benefits by the product of a times b, where a is the ratio of the number of all claims to the number of inpatient claims and b is the ratio of the average claim on all claims to the average claim on inpatient claims. The a and b ratios are obtained from Table 13.

Table 14 shows for one company the ratios of average claim on all

TABLE 11

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MISCELLANEOUS HOSPITAL EXPENSE BENEFIT

INPATIENT ONLY

VARIATION IN AVERAGE CLAIM BY MAXIMUM BENEFIT AMOUNT AND AGE NO DEDUCTIBLE

(Based on One Company's Claims Truncated at \$100, \$150, \$200, \$250, and \$300)

Attained	Number	RATIO OF ACTUAL TO TABULAR* FOR MAXIMUM BENEFIT AMOUNT								
AGE	OF CLAIMS	\$ 100	\$ 150	\$200	\$250	\$300	\$1,225			
		Male								
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	177 2,318 1,695 1,207 1,183 1,124 1,522 2,216 2,772 2,722 1,920 1,722 841	1.036 1.020 1.027 1.010 1.017 1.005 1.009 1.008 1.000 .998 1.005 .993 .999	1.200 1.204 1.209 1.208 1.245 1.240 1.246 1.273 1.277 1.283 1.303 1.295	1.268 1.298 1.295 1.312 1.374 1.381 1.386 1.440 1.456 1.478 1.506 1.504	1.313 1.357 1.340 1.378 1.452 1.470 1.475 1.553 1.582 1.623 1.651 1.717	1.348 1.396 1.369 1.425 1.507 1.528 1.538 1.636 1.678 1.732 1.758 1.762 1.857	1.528 1.580 1.432 1.598 1.715 1.713 1.748 1.980 2.117 2.199 2.228 2.251 2.382			
Total	21,419									
				Female						
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	589 3,031 1,859 1,643 1,677 2,487 3,489 4,666 5,515 4,517 3,622 3,046 1,455	1.000 1.011 1.016 1.010 1.007 1.007 1.001 999 1.009 .999 1.004 .995	1.151 1.194 1.220 1.246 1.247 1.266 1.263 1.276 1.274 1.288 1.274 1.283	1.223 1.287 1.333 1.383 1.393 1.424 1.435 1.428 1.446 1.453 1.475 1.467 1.419	1.268 1.341 1.397 1.466 1.482 1.526 1.543 1.536 1.560 1.575 1.608 1.605 1.559	1.293 1.375 1.438 1.518 1.540 1.594 1.614 1.611 1.639 1.660 1.702 1.706 1.665	1.362 1.474 1.550 1.637 1.661 1.791 1.828 1.851 1.903 2.025 2.158 2.066			
Total	37,196	 			 					
				Child						
All ages	9,868	.974	1.073	1.118	1.144	1.160	1.208			

^{*} Tabular based on graduated average claim for \$100 maximum benefit shown in Table 6.

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MISCELLANEOUS HOSPITAL EXPENSE BENEFIT

INPATIENT ONLY

VARIATION IN AVERAGE CLAIM BY MAXIMUM BENEFIT AMOUNT, DEDUCTIBLE AND AGE

(Experience of One Company)

				R		or Acru			R*			
ATTAINED AGE		\$90 uctible		20 actible		150 uctible	\$200 Deductible		\$240 Deductible		\$32 Dedu	0 ctible
	\$0	\$50	\$0	\$50	\$0	\$50	\$0	\$50	\$0	\$50	\$0	\$50
						M	ale					
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	1 083 1 061 1 050 1 020 1 007 990 974 984 975 973 973		1 .262 1 .293 1 .295 1 .287 1 .309 1 .242 1 .270 1 .224 1 .262 1 .247 1 .241 1 .251	1 .299 1 .354 1 .349 1 .304 1 .285 1 .239 1 .215 1 .329	1 .362 1 322 1 283 1 299 1 413 1 366 1 429 1 401 1 349 1 427 1 436 1 427	(1,495) 1 420 1.513 (1,495) 1.395 1.545 1.497 1.542	1.583	1.521 (1.785) (1.580) 1.515 (2.034) 1.558 1.972 2.054 1.975 2.008	1.563 1.513 1.622 1.689 1.647 1.707 1.737 1.794 1.843	1 591 1 754 1 718 1 751 1 808 1 823 1 972 2 045	1.744 1.798 1.943 1.992 1.945 2.082 2.083 2.214 2.341	2 120 2 164 2 195 2 153 2 163 2 471 2 196 2 348 (2 103)
						Fen	nale					
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	1 003 1 016 1 001 1 012 998 977 976 965 963 976 964 970	.984	(1.155) 1.237 1.263 1.216 1.267 1.249 1.259 1.254 1.254 1.239 1.242 1.246 1.238	1 . 263 1 . 308 1 . 305 1 . 245 1 . 348 1 . 279 1 . 289 1 . 265 1 . 227 1 . 289 1 . 226 1 . 272	1 . 427 1 . 349 1 . 442 1 . 379 1 . 435 1 . 422 1 . 387 1 . 413 1 . 380 1 . 423 1 . 407 1 . 453	1 .407 1 .612 1 .398 1 .533 1 .368 1 .570 1 .551 1 .473 1 .483 1 .421 1 .409 (1 .583)	1 641 1 559 1 637 1 732 1 703 1 717 1 777 1 779 1 775 1 780 1 759 1 650	1 .827 1 .786 1 .820 1 .684 1 .760 1 .931 1 .864 1 .692 2 .126 (1 .820)	(1.833) 1.477 1.574 1.705 1.701 1.751 1.781 1.731 1.754 1.886	1.744 1.917 1.892 1.894 1.898 1.797 1.825 1.808 1.656	(1.407) 1.674 1.855 1.950 2.004 2.016 2.026 2.111 2.155 2.040	1 .773 1 .992 2 .271 2 .319 2 .278 2 .123 2 .285 2 .195 2 .460
						Cì	ild					
All ages	1.103	1.161	1.260	1.363	1.309	1.456	1.451	1.572	1.399	1.604	1.498	1.794

^{*} Tabular based on graduated average claim for \$100 maximum benefit shown in Table 6. Note.—For policies with a deductible, average claim reflects eligible medical expenses before application of the deductible.

Parentheses indicate that the number of claims is 10-25.

claims to average claim on inpatient-only claims. These ratios under \$0 deductible policies generally decrease as the maximum benefit amounts increase. Any decrease is insignificant for the \$50 deductible.

Table 15 shows for all companies studied the variation in actual to tabular claims by period studied for the \$100, \$200, and \$300 maximum benefit amounts on policies with no deductible. There has been a clear and relatively steady increase in these ratios since 1960 for each maximum benefit amount studied, with the greatest increase occurring under the higher maximum benefit amounts. Part of this increase is due to greater frequencies of hospitalization, and part is due to higher average claims.

TABLE 13

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
MISCELLANEOUS HOSPITAL EXPENSE BENEFIT
VARIATION IN AVERAGE CLAIM WITH OR WITHOUT OUTPATIENT BENEFIT
NO DEDUCTIBLE

			Number o	F CLAIMS			RATIO OF AVERAGE CLAIM ON ALL CLAIMS TO AVERAGE CLAIM ON			
Company	COMPANY Inpatient			Inpatie	nt and Ou	tpatient	INPATIENT ONLY CLAIMS			
	Male	Female	Child	Male	Female	Child	Male	Female	Child	
		\$100 Maximum Benefit								
ABDIJK	1,133 267 59 2,821 153 255 4,688	2,624 332 142 3,727 287 428 7,540	1,071 255 76 1,022 134 378	1,516 341 80 2,918 233 391 5,479	3,232 371 171 3,808 410 534 8,526	2,023 442 140 1,271 259 711 4,846	.804 .834 .802 .969 .716 .740	.860 .915 .878 .983 .839 .841	.621 .681 .661 .854 .617 .629	
		·		\$200 Ma	ximum Be	enefit	<u> </u>	<u> </u>		
A	3,353 217 504 25 221 4,320	7,335 247 887 20 466 8,955	3,231 208 434 7 353 4,233	5,344 302 807 42 369 6,864	9,608 291 1,180 43 616 11,738	6,279 366 747 14 629 8,035	.681 .768 .684 .667 .656	.801 .877 .795 .805 .798	.598 .653 .652 .609 .638	

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MISCELLANEOUS HOSPITAL EXPENSE BENEFIT

VARIATION IN AVERAGE CLAIM WITH OR WITHOUT OUTPATIENT BENEFIT BY MAXIMUM BENEFIT AMOUNT, DEDUCTIBLE AND AGE

(Experience of One Company)

		RATIOS	OF AVE			ALL CLAI ONLY CLA	MS TO AVE	RAGE CLA	1M			
ATTAINED AGE		\$0	Deductil	ole		\$50 Deductible						
AGE	M	[aximu	m Benef	it Amou	ınt	Maximum Benefit Amount						
	\$60	\$90	\$120	\$240	\$ 320	\$60	\$90	\$120	\$240	\$320		
		Male										
15-19				.591								
20-24	.726	. 686	.620	.566	.627		(000)	(000)	.986	.904		
25–29 30–34	.743	.726 .709	.660	.638	.662		(1.892)	(.908)	.935	.924		
35-39	.782	.761	.677	.609 .688	.083	(1.000)	(1.000) (1.000)	.947	.983	.941		
40-44	845	.776	.747	.684	740	(1.000)	(.978)	.990	.958	.931		
45-49	828	829	.784	722	.810	(1.002)	1.000	1.000	.963	.967		
50-54	.907	.865	.842	.818	.827	(1.000)	.973	1.000	.979	.963		
55-59	.930	.877	.878	.837	. 833	1.000	.977	.964	.987	.979		
60-64	.920	. 898	. 881	.864	.906	1.001	.984	.990	.978	(1.000)		
65–69	.932	.906	. 892	.861		.977	. 982	.969	}			
70-74	929	.931	. 923	.897		.996	.986	.959				
75–79	. 956	.933	.932	.826		. 978	1.000	1.000				
Total.	.902	. 852	. 803	.681	.688	.993	.985	.974	.965	.949		
				·		Female	·					
15–19			(.876)	.721	(.804)	 .						
20-24	. 885	. 832	`. 783 [°]	. 753	`.786		(.952)	.917	. 998	. 989		
25-29	.895	845	. 805	.799	. 801	(1.000)	.976	1.000	.985	.987		
30-34	. 847	. 884	.817	.810	. 843	(1.000)	1.000	.987	1.000	.962		
35-39	.853	.856	.806	.811	.837	1.000	.986	.992	.984	.963		
40-44 45-49	. 890 . 907	. 887 . 893	. 856 . 860	.810 .826	.871 .861	.965	.976 1.003	.973	.990	.972 .983		
50-54	.867	.885	.840	.823	.839	.977	.978	.993	.960	.963		
55-59	.915	.878	.859	.811	.868	1,000	.977	.963	.970	.956		
60-64	929	.897	.879	.824	.908	1.001	.966	.979	.981	.965		
65-69	.920	909	.885	.828		.972	.977	.965				
70-74	.935	.911	. 895	. 839		.977	.980	.974				
75-79	.941	.929	.902	.846		.991	.973	.977				
Total.	.915	. 892	. 857	.801	.832	.986	.979	.977	.984	.974		
				<u> </u>	·	Child	<u> </u>					
All ages	.645	.640	.614	. 598	.620	.979	.949	.954	,958	.961		

Note.—For policies with a deductible, average claim reflects eligible medical expenses before application of the deductible.

Parentheses indicate that the number of inpatient-only claims is 10-25.

SURGICAL EXPENSE BENEFIT

Eighteen companies contributed experience covering over \$37,000,000 of claims to this section of the study. A description of the data used, methods of calculation, and techniques used in standardizing heterogeneous surgical schedules was presented with the 1960-61 study (TSA, 1963 Reports, pp. 150-60).

Table 16 shows, for policies without a deductible provision, the ungraduated frequencies, average claims, and claim costs per \$100 of maximum surgical benefit. Also shown is a comparison with similar data pre-

TABLE 15

EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MISCELLANEOUS HOSPITAL EXPENSE BENEFIT
INPATIENT ONLY
VARIATION IN ACTUAL TO TABULAR*
CLAIMS BY PERIOD STUDIED
NO DEDUCTIBLE
MALES, FEMALES, AND CHILDREN

Maximum	Study Period						
BENEFIT	1960-61	1962-63	1964-65				
\$100 \$200 \$300	1.000 1.000 1.000	1.050 1.091 1.110	1.105 1.219 1.228				

^{*}Tabular in all periods is based on 1964-65 graduated average amount of claims for \$100 maximum benefit shown in Table 6, and the results were adjusted to a base period of 1960-61.

viously published for the 1962–63 experience, as well as a comparison with the 1956 Intercompany Surgical Table adjusted to a standardized basis, as shown on page 155 of TSA, 1963 Reports. For adults the frequencies were slightly higher than those in the previous study, and the average claims were slightly lower. The decrease in average claims was somewhat more pronounced for females than for males, so that, while male claim costs remained relatively stable, the female claim costs showed a slight decrease. For children, frequencies and claim costs decreased.

A graduation of the crude 1964-65 data shown in Table 16 appears in Table 17.

Table 18 shows a comparison of the ungraduated data for policies without a deductible, with a \$25 deductible, and with a \$50 deductible. The volume of the data on claims for policies with deductibles was less

TABLE 16

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES COMPARISON WITH 1962-63 INTERCOMPANY EXPERIENCE AND 1956 INTERCOMPANY SURGICAL TABLE FREQUENCY OF SURGERY; AVERAGE CLAIM AND CLAIM COST PER \$100 OF MAXIMUM SURGICAL SCHEDULE STANDARD SCHEDULE—NO DEDUCTIBLE

ATTAINED	,	1964–65 Intercompany Experience			rio of 196 xperience -63 Expei	то	E	RATIO OF 1964-65 EXPERIENCE TO 1956 TABLE*		
Age	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	
					Male			· · · · · · · ·		
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1666 .0882 .0796 .0830 .0900 .0860 .0924 .0977 .1048 .1108 .1185 .1165 .1272	13.95 15.28 17.26 18.66 22.59 25.61 31.70 33.41	\$1.95 1.12 1.04 1.16 1.38 1.48 1.72 2.21 2.68 3.51 3.96 4.63 4.77	1 .33	.94 .97 .97 .99 .96 .99 .93 .98 1.02 .96 .96 1.01	1.25 .96 .96 .99 1.02 .98 .95 1.00 1.03 1.01 .99	2.06 1.13 1.07 1.12 1.22 1.15 1.19 1.18 1.16 1.14 1.21 1.19 1.29	.69 .73 .74 .77 .82 .90 .88 .94 1.00 1.09 1.13 1.35 1.27	1.41 .83 .79 .87 1.01 1.03 1.04 1.11 1.17 1.24 1.37 1.60	
					Female		·			
15-19. 20-24. 25-29. 30-34. 35-39. 40-44. 45-49. 50-54. 55-59. 60-64. 65-69. 70-74. 75-79.	. 1224 . 0941 . 1075 . 1202 . 1280 . 1306 . 1272 . 1153 . 1065 . 0996 . 1040 . 0971 . 1075	\$13 83 15 73 18 07 22 23 23 99 27 13 26 97 26 24 26 13 28 64 30 42 34 72 31 36	\$1.69 1.48 1.94 2.67 3.07 3.54 3.43 3.03 2.78 3.16 3.37 3.37	1.25 1.01 .99 1.02 1.02 1.02 1.02 1.01 1.03 .99 1.03 .98 1.13	.87 .89 .91 .96 .94 .95 .97 .97 .96 .95 1.01	1.08 .90 .90 .97 .96 .97 .97 .98 .99 .96 .97 .99	1.46 1.02 1.01 1.08 1.15 1.16 1.10 1.05 1.00 1.06 .99 1.09	.67 .75 .80 .89 .88 .93 .93 .92 .94 1.01 1.09 1.24 1.12	.98 .76 .80 .96 1.01 1.08 1.02 .99 1.02 1.15 1.23	
					Child					
All ages	. 1039	\$12.35	\$1.28	.94	1.00	.93	No	ot applica	ble	

^{*} Average claims and claim costs of the 1956 Intercompany Surgical Table adjusted to a standardized basis, as shown in TSA, 1963 Reports (p. 155, Table 15).

TABLE 17

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN
POLICIES—GRADUATED FREQUENCY OF SURGERY;
GRADUATED AVERAGE CLAIM AND CLAIM COST PER \$100 OF
MAXIMUM SURGICAL BENEFIT STANDARD SCHEDULE—
NO DEDUCTIBLE

Attained Age	Frequency	Average Claim	Claim Cost			
		Male				
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1100 .0892 .0820 .0837 .0865 .0902 .0943 .0987 .1037 .1095 .1155 .1230 .1325	\$11.72 12.20 13.01 13.95 15.45 17.26 19.85 23.00 26.40 30.25 34.40 39.10 45.00	\$1.29 1.09 1.07 1.17 1.34 1.56 1.87 2.27 2.74 3.31 3.97 4.81 5.96			
		Female				
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	.1000 .0941 .1072 .1210 .1280 .1306 .1272 .1153 .1065 .1026 .1013 .1028 .1075	\$13.83 15.60 18.07 22.23 25.70 27.13 26.97 26.24 26.13 27.70 30.42 34.72 40.30	\$1.38 1.47 1.94 2.69 3.29 3.54 3.43 3.03 2.78 2.84 3.08 3.57 4.33			
	Child					
All ages	.1039	\$12.35	\$1.28			

TABLE 18

1964-65 Experience under Individually Underwritten Policies
Frequency of Surgery; Average Claim and Claim Cost
Per \$100 of Maximum Surgical Schedule
Standard Schedule

	No	o Deducti	BLE	\$2	5 DEDUCT	BLE	\$ 5	\$50 Deductible		
ATTAINED Age	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	Fre- quency	Average Claim	Claim Cost	
		Male								
15-19. 20-24. 25-29. 30-34. 35-39. 40-44. 45-49. 50-54. 55-59. 60-64. 65-69. 70-74. 75-79.	.1666 .0882 .0796 .0830 .0900 .0860 .0924 .0977 .1048 .1108 .1185 .1165 .1272	13.01 13.95 15.28 17.26 18.66 22.59 25.61	\$1.95 1.12 1.04 1.16 1.38 1.48 1.72 2.21 2.68 3.51 3.96 4.63 4.77	0395 0483 0450 0431 0451 0582 0524 0625 0774 0865 0941 1011 1423	\$23.44 18.33 17.63 19.20 20.01 21.02 24.09 25.94 30.01 41.39 38.51 39.27 41.96	\$.93 .89 .79 .83 .90 1 .22 1 .26 1 .62 2 .32 3 .58 3 .62 3 .97 5 .97	.0513 .0380 .0343 .0340 .0407 .0388 .0445 .0538 .0601 .0684 .0682 .0931	22.61 24.09 24.03 28.46 27.02 29.80 37.00 45.43 44.18 45.28	\$1 26 .72 .78 .82 .92 .1.10 1.20 1.60 2.22 3.11 3.01 4.22 3.83	
		·		<u> </u>	Female		·	<u> </u>		
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 50-59 60-64 65-69 70-74 75-79	.1224 .0941 .1075 .1202 .1280 .1306 .1272 .1153 .1065 .0996 .1040 .0971 .1075	22, 23 23, 99 27, 13 26, 97 26, 24 26, 13 28, 64 30, 42 34, 72	\$1.69 1.48 1.94 2.67 3.07 3.54 3.43 3.03 2.78 2.85 3.16 3.37 3.37	.0446 .0583 .0651 .0862 .0964 .0905 .0968 .0886 .0785 .0743 .0793	29.27	\$.73 1 .26 1 .56 2 .25 2 .90 2 .88 3 .11 2 .80 2 .33 2 .62 2 .62 2 .68 2 .19 2 .90	.0632 .0559 .0575 .0655 .0735 .0833 .0900 .0722 .0676 .0645 .0641 .0763	26.61 31.52 33.27 33.63 33.12 35.22 37.27 37.22 38.12 40.31	\$1.31 1.20 1.53 2.06 2.45 2.80 2.98 2.54 2.52 2.40 2.44 3.08 3.31	
		Child								
All ages	. 1039	\$12.35	\$1.28	.0746	\$13.06	\$.97	.0487	\$19.20	\$.94	

Note.—For policies with a deductible, average claim and claim cost reflect eligible medical expenses before application of the deductible; frequency involves only claims where the total eligible medical expenses exceed the policy deductible.

than 10 per cent of that for policies without deductibles. Because of this small volume, there are many statistical variations, and, therefore, no comparison of current and previous experience is shown for policies with deductibles. When comparisons are made between the claim frequencies, average claims, and claim costs of policies without a deductible, with a \$25 deductible, and with a \$50 deductible, certain anomalies may be observed. As was pointed out on page 156 of the TSA, 1963 Reports, these anomalies are probably the result of heterogeneous data.

An analysis by duration was made of the experience on policies with no deductible. Actual claim costs related to claim costs for duration 3 and later are shown in the following tabulation:

Duration	Males	Females	All Adults	Children	Total
1	85% 98 100	90% 103 100	88% 101 100	91% 102 100	89% 101 100
All durations	96%	98%	97%	97%	97%

DEDUCTIBLE AMOUNTS

In hospital and surgical expense policies, any deductible amount is generally subtracted from the sum of all benefits (except maternity) otherwise payable at the time of a claim. This has the effect of eliminating those claims for total amounts less than the deductible and of reducing larger claims to the extent of the deductible amount.

Annual claim frequencies were obtained by dividing the number of claims in excess of the deductible by the number of lives exposed. Claim frequencies corresponding to deductible amounts of \$25 and \$50 are shown in Table 19. For homogeneous data we would expect the claim frequencies to decrease as the deductible amount increases.

Since it is easier to satisfy a given deductible under a policy providing large rather than small benefits, claim frequencies for a given deductible tend to vary with the amount of benefits provided. The frequencies shown in Table 19 are for all benefits combined. For homogeneous data we might expect such a claim frequency to exceed the corresponding frequency of hospitalization, because of claims which exceed the deductible by reason of surgical benefits where hospitalization is not involved and by reason of outpatient nonsurgical benefits. There are very few exceptions to this relation between corresponding frequencies in Table 19 and Table 3, and these probably reflect statistical fluctuations and heterogeneous data.

TABLE 19

1964-65 Experience under Individually
Underwritten Policies
Claim Frequency of Policies with a Deductible

	\$25 Der	DUCTIBLE	\$50 Des	DUCTIBLE				
ATTAINED Age	Number of Claims	Claim Frequency	Number of Claims	Claim Frequency				
		Ma	le	·				
15–19	64	.070	63	.069				
20-24	1,533	.073	488	.058				
25-29	1,372	.068	632	.056				
30-34	965	.072	686	.056				
35–39	829	.078	819	.069				
40-44	935	. 101	815	.069				
45-49	906	. 101	941	.083				
50-54	1,053	. 122	1,057	.098				
55-59	1,052	. 147	906	. 107				
60-64	891	. 155	683	. 125				
65-69	789	. 165	532	.125				
70-74	584	180	447	. 171				
75-79	514	. 243	275	.177				
Total	11,487		8,344					
	Female							
15 10	151	.096	94	005				
15–19	2,150	.090	955	.085				
25-29	1,818	.105	1,178	.086				
30–34	1,518	.103	1,170	.098				
35-39	1,501	140	1,482	.112				
40-44	1,842	155	1,761	.118				
45-49	2,152	162	2,024	.126				
50-54	2,149	154	1,863	.119				
55-59	1,810	149	1,439	.112				
60-64	1,453	144	1,025	112				
65-69	1,513	.166	845	.115				
70-74	1,088	,187	629	. 134				
75-79	705	.209	463	. 161				
Total	19,850		15,013					
	Child							
All ages	9,218	.083	8,423	,065				

Note.—These frequencies involve only claims where the total eligible medical expenses exceed the policy deductible.

To obtain the claim cost for a particular combination of benefits involving a deductible, it is necessary to reflect the savings resulting from the deductible amount. This is indicated in the following example, for a female age x under a policy with no outpatient benefits:

Benefits:

- \$ 10 daily hospital benefit for a maximum hospital confinement of 90 days.
- \$100 maximum miscellaneous hospital expense benefit.
- \$200 maximum surgical schedule-standard schedule.
- \$100 maternity benefit.
- \$ 50 deductible, but not applicable to maternity benefit.
- Let r_x^h represent frequency of hospitalization under a \$50 deductible plan.
 - h_x represent the average duration of hospitalization under a \$50 deductible plan with a 90-day maximum.
 - m_x represent the average miscellaneous hospital expense benefit covered under a \$50 deductible plan with a \$100 maximum benefit.
 - r_x^* represent the frequency of surgery under a \$50 deductible plan.
 - s_x represent the average amount of surgical claim covered under a \$50 deductible plan, per \$100 maximum surgical schedule—standard schedule.
 - r_x^m represent the maternity claim rate.
 - r_z^d represent the claim frequency under a \$50 deductible plan, excluding maternity claims.

The claim cost for all the benefits is given by the following expression:

$$(r_x^h)(10 h_x + m_x) + 2(r_x^h)(s_x) - 50 r_x^h + 100 r_x^m$$
.

MATERNITY EXPENSE BENEFIT

Twelve companies contributed data on 46,996 claims to this section of the study, which covers experience under basic hospital-surgical policies that provide benefits for childbirth or miscarriage. The policies included in the experience covered pregnancies which commenced after 30 days from date of issue or maternities which occurred after 10 months from date of issue. Maternity benefits provided by the policies varied considerably, as shown by the table at the top of page 102.

Frequencies of maternity by attained age and duration are shown in Table 20. Most of the data were submitted with the first four durations shown separately. However, one company submitted data with only the first two durations shown separately. The experiences for these two kinds of data are shown separately as well as on a combined basis, and the maternity claim frequencies of the 1956 Intercompany Hospital Table are shown for comparative purposes. The frequencies for durations 5 and

ANALYSIS OF DATA BY TYPE OF MATERNITY BENEFIT

Maternity Benefit Provided in Policy	Claims in Study (All Durations)
10 times daily hospital benefit	26,339
5 times combined daily hospital benefit of husband and wife	13,451
8 times daily hospital benefit but not more than \$75 or \$100	1,771
Flat \$50	1,449
Full hospital and surgical benefits	3,693
10 times daily hospital benefit but not more than \$75 or \$100	264
8 times daily hospital benefit in first policy year; 10 times in second year; 12 times thereafter	29
Total	46,996

TABLE 20

1964-65 Experience under Individually Underwritten Policies
Maternity Claim Frequency
Experience by Calendar-Year Duration

			1.1.11		CIMIII.	17.11.			···		
	No. Claims	FRE- QUENCY	No. Claims	FRE- QUENCY	No. Claims	FRE- QUENCY	No. Claims	FRE- QUENCY	No. Claims	FRE- QUENCY	1956 Inter-
ATTAINED AGE		Ex	pe rien c e Fi	perience of Companies Wh First Four Duration			nich Submitted Data with the ns Shown Separately				
	Dura	tion 1	Dura	tion 2	Dura	tion 3	Dura	tion 4		tion 5 Later	TABLE FRE- QUENCY
20-24 25-29 30-34 35-39 40-44 45-49	6,712 3,150 989 388 126 23	.286 .210 .112 .054 .019 .004	3,974 2,346 793 335 123 27	.337 .253 .134 .067 .025 .006	2,189 1,757 652 253 81 16	.316 .250 .141 .064 .019 .004	1,234 1,310 527 201 62 9	.301 .237 .137 .060 .018 .003	1,221 2,659 1,745 808 275 49	.261 .185 .107 .048 .015 .003	.285 .196 .117 .060 .016
Lotai	11,388		7,398		4,948		3,343		0,131	<u> </u>	
		E:	eperience Fi	of Comp rst Two	any Wh Duration	ich Subm is Shown	itted Da Separat	ata with tely	the		
	Dura	tion 1	Dura	tion 2		tion 3 Later		: 			
20-24 25-29 30-34 35-39 40-44 45-49	2,439 727 267 108 38 4	.287 .197 .107 .047 .014 .002	1,450 623 208 95 28	.374 .246 .124 .058 .014 .000	1,887 2,566 1,558 728 217 18	.378 .215 .129 .054 .013					.285 .196 .117 .060 .016
Total	3,583		2,405		6,974						
		·———	Co	mbined	Experien	ce of All	Compan	ies	<u> </u>		
	Dura	tion 1	Dura	tion 2		tion 3 Later					
20-24 25-29 30-34 35-39 40-44 45-49	9,151 3,877 1,256 496 164 27	.286 .207 .111 .053 .017 .003	5,424 2,969 1,001 430 151 28	.347 .252 .132 .065 .022 .004	6,531 8,292 4,482 1,990 635 92	.316 .213 .121 .053 .015 .002					.285 .196 .117 .060 .016
Total	14,971		10,003		22,022						

later are close to those of the 1956 table. The frequencies of 1964-65 are slightly lower than those reported for the 1962-63 experience.

As expected, claim frequencies on the maternity benefit are highest in calendar duration 2, after which they consistently decrease by duration. The lower claim frequencies for duration 1, as compared with duration 2, can be attributed to the initial waiting period of 10 months following date of issue. On the assumption that issues are spread uniformly throughout the year, the effect of the ten-month waiting period on the frequencies for calendar-year duration 1 can be approximately offset by multiplying the frequencies shown by 1.53.

MAJOR MEDICAL EXPENSE BENEFITS

Eleven companies contributed data on 27,923 claims to this section of the study. The volume of claims was almost twice as large as that under the 1962–63 experience.

In order to pool sufficient data for meaningful experience tables and to parallel the studies of 1960-61 and 1962-63 experience, it was necessary to consider deductible amount, coinsurance percentage, and hospital room and board limit as the only variables. Data for policies providing 80 per cent coinsurance were combined with those for 75 per cent coinsurance policies by multiplying the claim amounts paid on the former by .9375. As in the previous studies, most of the data were for policies providing a \$500 deductible amount, 75 or 80 per cent coinsurance, and no hospital room and board limit. The only other combination with data sufficient to consider for detailed analysis was a \$500 deductible amount, 75 or 80 per cent coinsurance, and a \$25 hospital room and board limit.

Table 21 shows the combined experience of durations 3 and later for plans with a \$500 deductible amount, no hospital room and board limit, and 75 per cent coinsurance (including adjusted data for 80 per cent coinsurance plans). The 1964–65 experience is compared to the 1962–63 experience and the 1960–61 experience. Claim frequencies are considerably higher in the 1964–65 experience than those in either previous study at nearly all ages. Average claims are generally lower in the 1964–65 experience, and claim costs are significantly higher than those in the previous studies at most ages.

A graduation of the crude claim costs shown in Table 21 is presented in Table 22.

Table 23 compares the experience of durations 1 and 2 with that for durations 3 and later on the plans included in Table 21. The results show a marked variation in claim costs by duration for adults. The small number of claims prevents a valid interpretation of the results for children.

TABLE 21

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT—\$500 DEDUCTIBLE AMOUNT
75 PER CENT COINSURANCE;* NO HOSPITAL ROOM AND BOARD LIMIT
DURATIONS 3 AND LATER

Attained	liture kv. i i	Cı	CLAIM	CLAIM AVERAGE		Ratio то 1962-63			Ratio to 1960-61			
ATTAINED AGE		Amount Paid	1 + 5 - 1		CLAIM COST	Claim Frequency	Average Claim	Claim Cost	Claim Frequency	Average Claim	Claim Cost	
						Male						
15–19. 20–24. 25–29. 30–34. 35–39. 40–44. 45–49. 50–54. 55–59. 60–64. 65–69. 70–74. 75 and over.	28 1,441 2,721 4,378 6,544 7,459 7,148 7,038 6,534 5,494 4,292 3,406 3,279 59,762	1 25 47 76 142 231 265 358 419 470 454 447 496	\$ 85 11,475 25,293 36,924 107,146 164,921 254,029 328,290 454,280 515,657 518,071 548,530 636,530	.0357 .0173 .0173 .0174 .0217 .0310 .0371 .0509 .0641 .0855 .1058 .1312 .1513	\$ 85 459 538 486 755 714 959 917 1,084 1,097 1,141 1,227 1,283	\$ 3.04 7.96 9.31 8.46 16.38 22.13 35.58 46.68 69.48 93.79 120.72 160.98 194.12	1 .34 1 .40 1 .24 1 .21 1 .24 1 .34 1 .15 1 .06 1 .18 1 .20 1 .56 1 .13	.65 .84 .81 1.02 .88 .92 .94 .91 .90 1.00 2.22 .77	.87 1.16 1.00 1.23 1.10 1.23 1.08 .96 1.07 1.20 3.46 .87	.82 2.47 1.00 1.30 1.16 1.38 1.19 1.27 1.31 1.11 1.30 †	.09 1.11 .53 .45 .78 .95 .97 1.16 .83 .71 †	.07 2.76 .53 .58 .91 1.31 1.13 1.23 1.51 .92 .93 †

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

Note.—Average claim and claim cost reflect eligible expenses after application of the deductible; frequency involves only claims where total eligible expenses exceed the deductible.

[†] Not available.

TABLE 21-Continued

	No.	17-	AMOUNT	CLAIM	Average	Claim	RAT	то то 1962	-63	RAT	ю то 1960	-61
Attained Age	LIVES EX- POSED CLAIMS	PAID FRE-QUENCY	CLAIM	Cost	Claim Frequency	Average Claim	Claim Cost	Claim Frequency	Average Claim	Claim Cost		
						Female	:					
15–19. 20–24. 25–29. 30–34. 35–39. 40–44. 45–49. 50–54. 55–59. 60–64. 65–69. 70–74. 75 and over.	160 1,356 3,144 4,699 6,817 7,554 7,455 8,014 8,155 7,978 7,766 6,409 6,589	1 26 88 148 248 317 382 497 506 490 645 574 892	\$ 113 16,862 70,404 95,974 176,679 241,105 311,605 426,917 486,773 443,013 621,270 576,895 1,186,817 \$4,654,427	.0063 .0192 .0280 .0315 .0364 .0420 .0512 .0620 .0614 .0831 .0896 .1354	\$ 113 649 800 648 712 761 816 859 962 904 963 1,005 1,331	\$.71 12.46 22.40 20.41 25.92 31.96 41.78 53.26 59.64 55.51 80.03 90.05 180.22	1.40 1.27 1.26 1.28 1.20 .99 1.03 1.33 1.23 1.13 .88 .86	.41 .80 1.44 .73 .95 1.08 .88 .90 .83 .90 .91 1.64	.57 1.01 1.82 .93 1.15 1.07 .92 1.20 1.02 1.02 .80 1.41 .72	92 1.23 1.12 1.25 1.24 1.06 1.21 1.29 1.17 1.34	1.80 1.16 .95 1.29 .94 1.09 .75 1.13 .86 .85 †	1.66 1.43 1.06 1.61 1.16 1.16 1.16 1.16 1.13
						Child	I					
All ages	61,848	568	\$ 391,140	.0092	\$ 689	\$ 6.34	1.39	1.10	1.52	2.56	.91	2.33

The data for durations 3, 4, and 5 and later indicated no consistent pattern by duration.

The 1964-65 experience appeared to vary widely by company. Table 24 compares the experience of the six companies which contributed to the results in Table 21.

Table 25 shows experience on plans with a \$500 deductible amount, a

TABLE 22

1964-65 EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT
\$500 DEDUCTIBLE AMOUNT
75 PER CENT COINSURANCE
NO HOSPITAL ROOM AND BOARD LIMIT
GRADUATED CLAIM COSTS FOR
DURATIONS 3 AND LATER

Attained Claim Age Cost Male 15-19..... 5.41 20–24...... 8.08 25-29....... 8.83 30-34...... 8,99 35-39..... 15.95 40-44...... 22.49 35.07 50-54........ 47.08 55-59............... 69.27 60-64.... 93.92 120.71 Female 15-19.,..... \$ 7.65 20-24...... 14.34 25-29...... 18.84 21.71 35–39..... 25.90 40-44.... 33.03 45-49..... 42.61 50-54....... 51.30 55–59........ 56.30 60-64........ 61.79 65-69..... 77.50Child All ages..... \$ 6.34 \$25 hospital room and board limit, and 75 per cent coinsurance (including adjusted data for 80 per cent coinsurance plans). The small volume of data underlying this table limits its value. The table is presented only to indicate variation in experience by age and sex. The inconsistency of the results as compared to those in Table 21 is attributed to the paucity of data in Table 25 and variations in company experience.

In addition to the experience tables, an analysis in the form of actual

TABLE 23

1964-65 EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT
\$500 DEDUCTIBLE AMOUNT
75 PER CENT COINSURANCE*
NO HOSPITAL ROOM AND BOARD LIMIT
RATIOS OF ACTUAL TO EXPECTED EXPERIENCE
FOR DURATIONS 1 AND 2

		ACTUAL	RATIO OF ACTUAL TO EXPECTED				
Sex	DURATION	Number of Claims	Claim Frequency	Average Claim	Claim Cost		
Male	{1 2	1,432 1,639	.41	.79 .88	.33		
Female	$\begin{cases} 1 \\ 2 \end{cases}$	2,109 2,438	.64 .79	.83 .94	. 53 . 74		
All adults	${1 \choose 2}$	3,541 4,077	.52	.80 .90	.42 .60		
Child	$\begin{cases} 1 \\ 2 \end{cases}$	93 132	.80	.85 .60	.68 .55		

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

to expected ratios was made of the following variables: deductible amount, hospital room and board limit, maximum benefit, and calendar year of experience. It is emphasized that the analysis of each variable ignored the effects of the other variables and of variations in company experience. Tables 26–30 show the results of these analyses. The expected figures used in these tables are based on the experience on policies with a \$500 deductible amount and no room and board limit; and they have been calculated using factors for each combination of duration, five-year age group, and sex.

[†] Expected based on experience for durations 3 and later.

Table 26 compares experiences for various deductible amounts. For adults, claim frequencies and claim costs decrease and average claims increase as the deductible amount increases. Insufficient data make a comparison of experience for children unreliable.

Table 27 compares experiences on policies with a \$25 and a \$30 hospital room and board limit with that on policies having no limit. The results indicate that claim frequencies are little affected by the hospital room and board limit. Claim costs appear higher for policies with a \$30 room and board limit than for policies with a \$25 limit. The fact that claim costs for policies with no room and board limit do not appear greater than those for policies with a limit on this type of expense, as would be expected, seems to result from variations in company experience.

TABLE 24

1964-65 EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT
\$500 DEDUCTIBLE AMOUNT-75 PER CENT COINSURANCE*
NO HOSPITAL ROOM AND BOARD LIMIT
DURATIONS 3 AND LATER
RATIOS OF ACTUAL TO EXPECTED EXPERIENCE
BY CONTRIBUTING COMPANY

C		ACTUAL	RATIO OF ACTUAL TO EXPECTED †				
COM- PANY	Sex	Number of Claims	Claim Frequency	Average Claim	Claim Cost		
A	Male Female	378 395	1.06	1.03	1.10 1.21		
1	Child	127	1.13	1.17	1.32		
B	Male	244	.92	.97	.90		
1	Female	276	.85	.94	.80		
_	Child	93	.97	1.22	1.18		
2 [Male	2,126	1.02	.99	1.01		
1	Female	3,326	1.03	.98	1.01		
r. [Child	92	1.11	.77	.85		
D	Male	470	1.02	1.10	1.11		
Í	Female Child	555 180	1.00	$\frac{1.02}{.97}$	1.02		
E	Male	142	.79	.80	.63		
L	Female	168	.79	.98	.78		
1	Child	44	.69	.99	.68		
₹	Male	71	.76	.96	.74		
	Female	94	.90	.92	.82		
1	Child	32	.78	.64	. 50		

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

[†] Expected based on experience of all companies combined.

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MAJOR MEDICAL EXPENSE BENEFIT

\$500 DEDUCTIBLE AMOUNT

75 PER CENT COINSURANCE*

\$25 HOSPITAL ROOM AND BOARD LIMIT

DURATIONS 3 AND LATER

Attained Age	Number of Lives Exposed	Number of Claims	Amount Paid	Claim Frequency	Average Claim	Claim Cost
		***************************************	Ma	ale		
20-24. 25-29. 30-34. 35-39. 40-44. 45-49. 50-54. 55-59. 60-64. 65-69.	527 765 1,455 2,344 2,605 2,320 2,051 1,585 924 67	3 5 31 68 67 104 87 104 78	\$ 394 3,311 13,962 45,062 59,501 86,502 98,766 121,738 98,234 13,801	.0057 .0065 .0213 .0290 .0257 .0448 .0424 .0656 .0844 .1045	\$ 131 662 450 663 888 832 1,135 1,171 1,259 1,972	\$.75 4 .30 9 .59 19 .23 22 .82 37 .27 48 .12 76 .81 106 .26 206 .07
Total	14,643	554	\$541,271			
		<u>'</u>	Fen	ıale		l
20-24. 25-29. 30-34. 30-39. 40-44. 45-49. 50-54. 55-59. 60-64. 65-69.	417 882 1,673 2,343 2,576 2,348 1,898 1,501 826 74	12 25 55 98 129 118 109 78 45 3	\$ 14,997 11,036 27,349 69,263 81,198 87,001 97,427 71,845 40,458 5,968	.0288 .0283 .0329 .0418 .0501 .0503 .0574 .0520 .0545 .0405	\$1,250 441 497 707 629 737 894 921 899 1,989	\$ 36.00 12.48 16.35 29.55 31.51 37.07 51.32 47.89 49.00 80.55
Total	14,538	672	\$506,542			
			Ch	ild		
All ages	21,293	215	\$124,871	.0101	\$ 581	\$ 5.87

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

Table 28 compares the experience of one company on policies having a \$25 hospital room and board limit, coinsurance of 100 per cent on hospital room and board expenses, and 80 per cent on all other eligible expenses, with policies having no room and board limit and 75 per cent coinsurance. All eligible expenses are used toward satisfaction of the deductible amount.

The comparison of experience by size of maximum benefit in Table 29 again indicates the effect of variations in company experience. Claim frequencies would be expected to remain the same, and average claims and claim costs would be expected to increase, as the maximum benefit increases.

TABLE 26

1964-65 EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT
75 PER CENT COINSURANCE*
NO HOSPITAL ROOM AND BOARD LIMIT
RATIOS OF ACTUAL TO EXPECTED EXPERIENCE
ON POLICIES WITH DEDUCTIBLE AMOUNTS OF
\$300, \$750, AND \$1,000

AMOUNT		Actual	RATIO OF	ACTUAL TO E	CPECTED †
OF DE-	Sex	Number of Claims	Claim Frequency	Average Claim	Claim Cost
\$300	Male Female	187 209	1.65 1.44	.98 .95	1.61 1.36
	All adults	396	1.53	.96	1.48
	Child	104	2.01	.65	1.30
\$ 750	Male Female	198 300	.65 .71	1.01 1.15	. 65 . 82
	All adults	498	. 69	1.09	.75
	Child	5	.37	3.64	1.34
\$1,000	Male Female	273 285	.57	1.17 1.15	.67
	All adults	558	. 50	1.17	. 59
	Child	10	.21	2.51	. 52

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

[†] Expected based on experience on policies with a \$500 deductible amount.

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES

MAJOR MEDICAL EXPENSE BENEFIT \$500 DEDUCTIBLE AMOUNT

75 PER CENT COINSURANCE*

RATIOS OF ACTUAL TO EXPECTED EXPERIENCE ON POLICIES WITH ROOM AND BOARD LIMITS OF \$25 AND \$30

ROOM AND		Actual	RATIO OF ACTUAL TO EXPECTED!				
BOARD LIMIT	Sex	Number of Claims	Claim Frequency	Average Claim	Claim Cost		
\$25	Male Female	959 1,313	.97 1.06	1.06	1.03		
	All adults	2,272	1.02	.99	1.01		
	Child	396	1.01	.97	.98		
\$30	Male Female	361 613	.94 1.03	1.18 1.07	1.12 1.10		
	All adults	974	1.00	1.11	1.10		
	Child	139	1.02	1.03	1.04		

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

TABLE 28

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES MAJOR MEDICAL EXPENSE BENEFIT

\$500 DEDUCTIBLE AMOUNT \$25 HOSPITAL ROOM AND BOARD LIMIT

COINSURANCE OF 100 PER CENT ON HOSPITAL ROOM AND BOARD AND 80 PER CENT ON ALL OTHER ELIGIBLE EXPENSES RATIOS OF ACTUAL TO EXPECTED EXPERIENCE

(Experience of One Company)

	Actual	RATIO OF ACTUAL TO EXPECTED*					
Sex	Number of Claims	Claim Frequency	Average Claim	Claim Cost			
Male Female	433 503	.97 .97	1.09 1.09	1.06 1.06			
All adults	936	.97	1.09	1.06			
Child	141	1.03	1.11	1.15			

^{*} Expected based on experience on policies with no room and board limit and 75 per cent coinsurance (including adjusted data on 80 per cent coinsurance plans).

[†] Expected based on experience on policies with no room and board limit.

1964-65 EXPERIENCE UNDER INDIVIDUALLY UNDERWRITTEN POLICIES

MAJOR MEDICAL EXPENSE BENEFIT

\$500 DEDUCTIBLE AMOUNT

75 PER CENT COINSURANCE*

NO HOSPITAL ROOM AND BOARD LIMIT

RATIOS OF ACTUAL TO EXPECTED EXPERIENCE ON POLICIES WITH MAXIMUM BENEFITS OF

\$5,000, \$7,500, AND \$10,000

		Actual	RATIO OF ACTUAL TO EXPECTED				
MAXIMUM BENEFIT	Sex	NUMBER OF CLAIMS	Claim Frequency	Average Claim	Claim Cost		
\$5,000	Male Female	294 509	.86 1.04	.74 .87	.64 .91		
	All adults	803	.97	.82	. 79		
	Child	44	.95	.99	.94		
\$7,500	Male Female	1,489 1,766	.97 .95	1.06 1.01	1.03		
	All adults	3,255	.96	1.03	.99		
	Child	558	.99	1.03	1.02		
\$10,000	Male Female	4,719 7,086	1.02 1.01	1.00 1.01	1.02 1.02		
	All adults	11,805	1.01	1.00	1.02		
	Child	191	1.03	.92	.94		

^{*}Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

[†] Expected based on experience of all maximum benefits combined.

Table 30 compares the experience for calendar years 1964 and 1965 on policies with a \$500 deductible amount and no room and board limit. Adult claim frequencies and claim costs are significantly higher in 1965 than they were in 1964, while average claims are slightly lower. For children, the results are not as pronounced, and average claim is virtually unchanged. Since only three companies have contributed data for each of the calendar years 1960–65, a meaningful comparison of the experience for each of these years was not possible.

TABLE 30

1964-65 EXPERIENCE UNDER INDIVIDUALLY
UNDERWRITTEN POLICIES
MAJOR MEDICAL EXPENSE BENEFIT
\$500 DEDUCTIBLE AMOUNT
75 PER CENT COINSURANCE*
NO ROOM AND BOARD LIMIT
RATIOS OF ACTUAL TO EXPECTED EXPERIENCE
FOR YEARS OF EXPERIENCE 1964 AND 1965

RATIO OF ACTUAL TO EXPECTED † YEAR OF ACTUAL Expe-Sex NUMBER OF RIENCE CLAIMS Claim Average Claim Frequency Claim Cost 1964 Male 2,962 1.02 .83 .81 Female 4,243 1.03 .91 .94 All adults 7,205 .87 1.02 .89 Child 431 .96 1.00 .96 1965 Male 3,540 1.24 .98 1.22 Female 5,118 1.09 .97 1.05 All adults 8,658 1.12 1.14 .98 Child 362 1.04 1.01 1.05

^{*} Includes policies with 80 per cent coinsurance, for which amounts paid have been multiplied by .9375.

[†] Expected based on experience of both years combined.