TRANSACTIONS OF SOCIETY OF ACTUARIES 1954 REPORTS

REPORT OF THE COMMITTEE ON ACCIDENT AND SICKNESS EXPERIENCE IN PLANS INSURED ON THE GROUP BASIS

GROUP WEEKLY INDEMNITY AND GROUP HOSPITAL AND SURGICAL EXPENSE INSURANCE

HIS is the seventh report in a series of annual studies of the morbidity experience of Group Weekly Indemnity insurance and Group Employee and Dependent Hospital and Surgical Expense insurance and covers the same plans studied by the Committee in its 1953 report. Descriptions of these plans appear in previous years' reports.

For six out of the eight contributing companies, the crude annual claim costs shown in this report have been derived from the experience of the policy years ending in the calendar years indicated in the table headings. For the remaining two companies, the experience of the policy years ending during the 12 month period prior to July 1 of the indicated calendar year has been used for that purpose.

In compiling this report, the Committee has included the available experience of employer-employee groups regardless of size. The experience of insured groups outside of the continental United States, as well as that of trusteeship and association cases insuring employees of the member employers and of union cases, whether or not insurance depends on continued employment, has been excluded. The data for Group Weekly Indemnity insurance, contained in Tables 1, 2, and 8, exclude the experience of plans written under State Cash Sickness laws. As in prior reports, the term "experience unit" is defined as a policy year's experience of an insured group.

Tables 1, 3a, and 3b of this report for Weekly Indemnity insurance and Employee Hospital Expense insurance present the crude annual claim costs of all groups in those industrial classifications which the contributing companies individually rate standard for premium purposes. These tables are headed "Nonrated Industries." Table 4 for Employee Surgical Expense insurance, Tables 5a and 5b for Dependent Hospital Expense insurance, and Table 6 for Dependent Surgical Expense insurance contain the crude claim costs of all groups, regardless of industrial classification. These tables are headed "All Industries."

In reviewing the results of Tables 4 and 6, it should be remembered that the annual claim costs for the \$150 Schedule are based on the experi-

TABLE 1

COMBINED 1949–53 POLICY YEARS' EXPERIENCE GROUP WEEKLY INDEMNITY INSURANCE WITH 6 WEEKS MATERNITY BENEFIT NONRATED INDUSTRIES

Female Percent	NUM- BER OF Expe- rience Units	WEEKLY INDEMNITY Exposed	Claims	An- nual Claim Cost*	IRTENCE	Indemnity Exposed	Claims	An- nual Clair Cost
			1	.3-Week	PLANS			<u></u>
	lst Da	ay Accident and	d 4th Day Si	ckness	4th D	ay Accident a	nd 4th Day Si	ckness
<11% 11- 21	5,874 2,241	17,318,260 7,674,850						\$.58 .61
21 - 31	1,030							
31-41	414	2,247,370	1,851,944	4 .82	105	499,730	440,422	. 8
41-51	254							
51- 61 61- 71	188 132							
71- 81	58							
81-91	53	103,810	96,079	.93	7	12,790	12,424	
91-100	16	8.820	7,520) .85	5	12,220	6,670	. 55
Total.	10,260	34,805,390	23,088,190)	1,677	10,119,340	6,552,880	
	1st Da	ay Accident and	l 8th Day Sic	kness	8th D	ay Accident a	nd 8th Day Si	ckness
<11%	14,116	53,942,250	26,424,546	\$.49	2,830	22,057,700	10,896,670	\$.49
11-21	6,365	26,250,170		. 55	1,485	14,764,500	8,274,386	
21-31	3,324	15,719,730				15,452,460		
31- 41 41- 51	2,133 1,454	10,241,930 6,343,560	7,647,243 4,940,464		672 499		4,230,420 2,853,211	.65
51-61	1,065					1,785,600		
61-71	727	2,451,800				1,267,840		
	486					811,350		
71-81			738,113		146 38			
81-91	300							
81- 91 91-100	300 69	167,400	134,891					
81- 91 91-100	300 69					70,410 66,984,070		
81- 91 91-100	300 69	167,400	71,345,830		7,320			
81- 91 91-100	300 69 30,039	167,400	71,345,830	6-Week	7,320 Plans		40,679,361	
81- 91 91-100 Total	300 69 30,039 1st Da	167,400 121,665,200 ay Accident and 22,038,600	2 2 2 8th Day Sic	6-WEEK	7,320 PLANS 8th D 616	66,984,070 Day Accident a 10,736,860	40,679,361 nd 8th Day Si 6,951,705	ckness \$.65
81- 91 91-100 Total <11% 11- 21	300 69 30,039 Jst Da 1,646 563	167,400 121,665,200 ay Accident and 22,038,600 7,671,880	71,345,830 2 3 8th Day Sic 15,360,551 5,241,015	6-WEEK kness \$.70 .68	7,320 PLANS 8th D 616 270	66,984,070 Pay Accident a 10,736,860 3,795,430	40,679,361 nd 8th Day Si 6,951,705 2,476,261	ckness \$.65 .65
81- 91 91-100 Total (11% 11- 21 21- 31	300 69 30,039 Jst Da 1,646 563 233	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190	2 3 8th Day Sic 15,360,551 5,241,015 2,560,088	6-WEEK Skness \$.70 .68 .81	7,320 PLANS 8th D 616 270 145	66,984,070 Pay Accident a 10,736,860 3,795,430 4,676,150	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703	ckness \$.65 .65 .73
81- 91 91-100 Total 10 11- 21 31- 41	300 69 30,039 Jst Da 1,646 563 233 128	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190 2,181,220	2 2 3 8th Day Sic 15,360,551 5,241,015 2,560,088 2,032,131	6-WEEK	7,320 PLANS 8th D 616 270 145 67	66,984,070 Pay Accident a 10,736,860 3,795,430 4,676,150 403,160	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703 330,153	ckness \$.65 .65 .73 .82
81- 91 91-100 Total 11-21 21-31 31-41	300 69 30,039 Jst Da 1,646 563 233	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190	2 3 8th Day Sic 15,360,551 5,241,015 2,560,088	6-WEEK	7,320 PLANS 8th D 616 270 145	66,984,070 Day Accident a 10,736,860 3,795,430 4,676,150 403,160 701,580 70,450	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703 330,153 665,042 63,557	ckness \$.65 .65 .73
<11% <11% 11 - 21 21 - 31 31 - 41 41 - 51 51 - 61 51 - 71	300 69 30,039 1st Da 1,646 563 233 128 90 52 20	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190 2,181,220 603,060 351,010 82,930	2 3 8th Day Sic 5, 360, 551 5, 241, 015 2, 560, 088 2, 032, 131 669, 443 341, 900 103, 236	6-WEEK Skness \$.70 .68 .81 .93 1 .11 .97 1 .24	7,320 PLANS 8th D 616 270 145 67 53 23 16	66,984,070 Day Accident a 10,736,860 3,795,430 4,676,150 403,160 701,580 70,450 96,870	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703 330,153 665,042 63,557 112,572	ckness \$.65 .73 .82 .95 .90 1.16
81- 91 91-100 Total 11- 21 21- 31 31- 41 51- 61 51- 71 71- 81	300 69 30,039 1st Da 1,646 563 233 128 90 52 20 6	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190 2,181,220 603,060 351,010 82,930 98,380	2 3 8th Day Sic 5,241,015 2,560,088 2,032,131 669,443 341,900 103,236 136,251	6-WEEK 6-WEEK	7,320 PLANS 8th D 616 270 145 67 53 23 16 1	66,984,070 Pay Accident a 10,736,860 3,795,430 4,676,150 403,160 701,580 70,450 96,870 950	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703 330,153 665,042 63,557 112,572 880	ckness \$.65 .65 .73 .95 .90 1.16 .93
<11% <11% 11 - 21 21 - 31 31 - 41 41 - 51 51 - 61 51 - 71	300 69 30,039 1st Da 1,646 563 233 128 90 52 20	167,400 121,665,200 ay Accident and 22,038,600 7,671,880 3,146,190 2,181,220 603,060 351,010 82,930	2 3 8th Day Sic 5, 360, 551 5, 241, 015 2, 560, 088 2, 032, 131 669, 443 341, 900 103, 236	6-WEEK SkDess \$.70 6.81 .93 1.11 .97 1.28 1.38 1.79	7,320 PLANS 8th D 616 270 145 67 53 23 16	66,984,070 Day Accident a 10,736,860 3,795,430 4,676,150 403,160 701,580 70,450 96,870	40,679,361 nd 8th Day Si 6,951,705 2,476,261 3,413,703 330,153 665,042 63,557 112,572	ckness \$.65 .73 .82 .95 .90

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ence of 1949–1953, while those for the \$200 Schedule are based on the experience of 1951–1953. The figures for the \$150 Schedule and for the \$200 Schedule given in Table 7 show how misleading it would be to compare directly the claim costs for the two Surgical Schedules given in Tables 4 and 6. A more valid comparison can be obtained from Table 8, described below. Similar caution should be used in comparing the 1949–1953 annual claim costs shown in Tables 3a and 5a with the 1952–1953 annual claim costs shown in Tables 3b and 5b, respectively.

TABLE 2

GROUP WEEKLY INDEMNITY INSURANCE
NONRATED INDUSTRIES
SECULAR TREND
STANDARDIZED MORBIDITY RATIOS

Policy Year Experience	1-4-13 and 4-4-13 Plans	1-8-13 and 8-8-13 Plans	1–8–26 and 8–8–26 Plans	All Plans
1947	111%	105%	110%	107%
1948	102	101	107	102
1949	100	100	100	100
1950	97	97	99	98
1951	98	97	94	97
1952	104	103	101	103
1953	108	106	99	105

Trend of Experience

In order to analyze the secular trend underlying the experience under plans shown in Tables 1, 3a, 4, 5a, and 6, standardized morbidity ratios were obtained for policy years 1951–1953 for the \$200 Surgical Schedule and for policy years 1947–1953 for all other plans. These ratios are presented in Tables 2 and 7.

The standardized morbidity ratio used this year is similar to, but not precisely the same as the ratio of actual claims to average claims shown in previous years' reports. This standardized ratio removes the effect of changes in the relative distribution of experience by plan and by female bracket (in the case of employee plans), while retaining the effect of the underlying claim costs.

For an employee plan of insurance, the crude claim cost for each female percentage grouping for any one year was applied to the corresponding accumulated 1948–1952 exposure and the resulting calculated claims for all female percentage groupings were compared to the total actual claims of the accumulated 1948–1952 experience. For a dependent plan of insur-

TABLE 3a

COMBINED 1949-53 POLICY VEARS' EXPERIENCE† EMPLOYEE GROUP HOSPITAL EXPENSE INSURANCE NONRATED INDUSTRIES

1	FIXED BENEFIT PLANS											REIMBURSEMENT PLAN				
P	31 Day, 14+5×, 5×					31 Day, 14+10×, 10×			70 Day, $14+5\times$, $5\times$				31 Day, 10×, 10×			
Female Percent	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	An- nual Claim Cost*	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	An- nual Claim Cost*	Num- ber of Expe- rience Units	Daily Bencht Ex-osed	Claims	An- nual Claim Cost*	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	An- nual Claim Cost*
<111'	5,230 3,039 1,996 1,468 1,125 815 593 529 350 123	4 508,512 3,388,979 2,465,659 2,460,467 1,127,907 965,804 520,051 494,854 268,625 115,899	4, 153, 993 3, 304, 519 2, 631, 258 2, 834, 713 1, 316, 758 1, 216, 488 654, 411 686, 169 371, 710 181, 660	\$.92 .98 1 07 1 15 1 17 1 26 1 26 1 39 1 38 1 57	4,976 2,643 1,414 967 656 442 294 231 96 28	$\begin{array}{c} 6.282.829\\ 3.472.334\\ 2.085.064\\ 1.409.449\\ 867.520\\ 535.495\\ 471.064\\ 310.182\\ 135.566\\ 20.269\end{array}$	7,530,086 4,299,042 2,749,111 2,000,304 1,390,055 912,092 874,104 572,587 257,924 51,495	\$1 20 1 24 1 32 1 42 1 60 1 70 1 86 1 85 1 90 2 54	923 654 394 239 191 151 104 72 88 16	$\begin{array}{c} 1, 167, 125\\ 984, 353\\ 615, 570\\ 264, 478\\ 240, 688\\ 171, 136\\ 84, 830\\ 88, 049\\ 68, 049\\ 64, 679\\ 6, 737\end{array}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	\$1.08 1 13 1 15 1 25 1 33 1 33 1 58 1 42 1 59 1 32	2,630 1,275 785 492 370 320 250 136 104 31	$\begin{array}{c} 2,304,815\\ 1,310,988\\ 984,067\\ 517,425\\ 329,464\\ 301,053\\ 193,533\\ 159,597\\ 82,138\\ 30,689 \end{array}$	$\begin{array}{c} 2,649,467\\ 1,564,305\\ 1,193,449\\ 702,853\\ 472,833\\ 469,414\\ 308,071\\ 274,929\\ 157,895\\ 70,419 \end{array}$	\$1.15 1.19 1.21 1.36 1.44 1.56 1.59 1.72 1.92 2.29
Total	15,268	16,316,757	17,351,679		11.747	15,589,772	20.636,800		2 813	3-687.645	4.328.590		6,393	6,213,769	7.863.635	

+ See text for caution about comparison with Table 3h.

TABLE 3b

COMBINED 1952-53 POLICY YEARS' EXPERIENCE[†] EMPLOYEE GROUP HOSPITAL EXPENSE INSURANCE NONRATED INDUSTRIES

			F	ixed Be	NEFIT PL	ANS			Reimbursement Plans							
Envira	31 Day, 14+20×, 20×					70 Day, 14+10×, 10×			31 Day, 10×, 20×				31 Day, 14+10×, 10×			
FEMALF Per(fnt	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	Annual Claim Cost*	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	Annual Claim Cost*	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	Annual Claim Cost*	Num- ber of Expe- rience Units	Daily Benefit Exposed	Claims	An- nual Claim Cost*
$ \frac{11\%}{11-21} \\ \frac{21-31}{31-41} \\ \frac{31-41}{51-51} \\ \frac{51-61}{51-61} \\ \frac{61-71}{71-81} \\ \frac{81-91}{91-100} \\ \frac{31-31}{31-31} \\ \frac{31-31}{3$	191 109 69 31 24 24 9 3 1 0	262,601 346,363 108,421 95,403 55,817 34,553 4,394 2,501 599 0	386,119 627,225 199,303 188,252 105,845 76,836 11,489 7,059 1,580 0	\$1.47 1.81 1.84 1.97 1.90 2.22 2.61 2.82 2.64	550 348 162 125 75 56 47 28 12 1	955,838 679,314 182,410 273,273 77,770 57,382 64,725 14,718 9,342 330	$\begin{array}{c} 1,390,802\\ 1,016,686\\ 292,251\\ 438,672\\ 132,342\\ 106,613\\ 128,131\\ 37,337\\ 21,029\\ 554 \end{array}$	\$1.46 1.50 1.60 1.61 1.70 1.86 1.98 2.54 2.25 1.68	419 201 100 68 40 29 22 11 5 1	448,020 295,352 147,648 69,481 49,298 35,942 13,398 12,553 12,084 298	653,533 457,130 225,932 101,909 85,145 81,770 28,701 23,271 23,271 29,907 516	\$1.46 1.55 1.53 1.47 1.73 2.28 2.14 1.85 2.47 1.73	343 171 63 53 40 44 27 9 6 2	$\begin{array}{r} 347,048\\ 377,561\\ 200,275\\ 268,836\\ 58,288\\ 74,905\\ 69,972\\ 57,007\\ 2,433\\ 5,622\\ \end{array}$	452,947 536,215 265,114 344,193 86,810 128,954 111,358 109,394 6,121 11,726	\$1.31 1.42 1.32 1.28 1.49 1.72 1.59 1.92 2.52 2.09
Total.	461	910,652	1,603,708		1,404	2,315,102	3,564,417	•••••	896	1,084,077	1,687,814		758	1,461,947	2,052,832	

† See text for caution about comparison with Table 3a.

ance, the crude claim cost for any one year was applied to the accumulated 1948–1952 exposure of the plan and the resulting calculated claims were compared to the corresponding actual claims of the accumulated 1948–1952 experience. For the \$200 Surgical Schedule, accumulated experience for policy years 1951–1953 was used. The analysis has been shown for all exposure size groupings for individual plans or combinations of plans, as well as for all plans combined under each coverage.

TABLE 4

EMPLOYEE GROUP SURGICAL EXPENSE INSURANCE WITH OBSTETRICAL BENEFITS ALL INDUSTRIES

	C.	OMBINED 1949 YEARS' EXPE		Combined 1951-53 Policy Years' Experience †					
Female Percent		\$150 Sc	HEDULE	\$200 Schedule					
	Num- ber of Expe- rience Units	Maximum Indemnity Exposed per \$150 Basic Unit	Claims	An- nual Claim Cost*	ber of	Maximum Indemnity Exposed per \$200 Basic Unit	: Claims	An- nual Claim Cost*	
$\begin{array}{c} <11\% \\ <11\% \\ 11-21 \\ 21-31 \\ 31-41 \\ 41-51 \\ 51-61 \\ 51-61 \\ 61-71 \\ 71-81 \\ 81-91 \\ 91-100 \\ \end{array}$	5,918 4,157 2,931 2,204 1,560 1,108	2,766,801 2,194,031 1,326,457 883,441 610,196 317,945 277,340 176,218	8,711,433 5,671,699 4,266,367 3,046,699 1,699,888 1,647,348 1,112,644	$\begin{array}{r} 3.50 \\ 3.97 \\ 4.28 \\ 4.83 \\ 4.99 \\ 5.35 \\ 5.94 \\ 6.31 \end{array}$	5,198 2,554 1,264 763 569 441 303 164 76 13	423,831 206,963 167,216 134,552 72,060 47,223	3,682,557 2,166,772 1,168,668 1,058,572 895,644 535,926 311,286 99,370	4.77 5.11 5.65 6.33 6.66 7.44 6.59	
Total .	46,471	12,733,397	48,466,994		11,345	3,275,222	15,867,023		

† See text for caution about comparison of annual claim costs of the two schedules.

* Per Basic Unit Exposed.

The analysis contained in Table 2 shows that the Group Weekly Indemnity experience for 1953 under 13-week plans continues the trend away from the more favorable experience of 1951. Under the 26-week plans, while the trend is not so apparent, the experience remains considerably less favorable than the 1951 low. .

Table 7 for Group Hospital and Surgical Expense insurance shows (except for Dependents Surgical Expense insurance) a continuation of the general trend toward higher claim costs, which has been noted in previous

TABLE 5a

COMBINED 1949–53 POLICY YEARS' EXPERIENCE† Dependents Group Hospital Expense Insurance All Industries

Plan Identification	Number of Experi- ence Units	Daily Benefit Exposed	Claims	Annual Claim Cost*
Reimbursement Plans with No Maternity Benefit 31 Day, 5× 31 Day, 10×. 70 Day, 5× Reimbursement Plans with 10× Daily Benefit for Maternity	955 1,571 201	675,041 2,189,451 126,880	1,303,453 5,351,010 259,195	\$1.93 2.44 2.04
31 Day, 5× No Maternity Waiting Period	259	258,062	738.099	2.86
31 Day, 5× 9 Months Maternity Waiting Period	6,851	3,838,213	9,832,203	2.56
31 Day, 10× 9 Months Maternity Waiting Period	12,559	9,931,161	30,642,129	3.09
70 Day, 5× 9 Months Maternity Waiting Period	432	316,430	870,012	2.75
70 Day, 10× 9 Months Maternity Waiting Period	1,452	1,960,382	6,876,922	3.51
Fixed Benefit Plan with $10 \times$ Daily Benefit for Maternity 31 Day, $5 \times$ 9 Months Maternity Waiting Period	395	983,507	2,606,667	2.65

† See text for caution about comparison with Table 5b.

* Per \$1.00 of Exposure.

TABLE 5b

COMBINED 1952-53 POLICY YEARS' EXPERIENCE[†] Dependents Group Hospital Expense Insurance All Industries

Plan Identification	Number of Experience Units	Daily Benefit Exposed	Claims	Annual Claim Cost*
Reimbursement Plans with 10× Daily Benefit for Maternity 31 Day, 20× 9 Months Maternity Waiting Period		1,707,306	6,456,128	\$3.78
70 Day, 20× 9 Months Maternity Waiting Period	566	1,345,620	5,316,546	3.95

† See text for caution about comparison with Table 5a.

TABLE 6

DEPENDENTS (GROUP SURGICAL	EXPENSE	INSURANCE
	ALL INDUSTR	IES	

			049-53 Policy kperience †		Combined 1951-53 Policy Years' Experience †					
Plan		\$150 S	CHEDULE	\$200 Schedule						
P LAN	Num- ber of Expe- rience Units	Maximum Indemnity Exposed per \$150 Basic Unit	Claims	An- nual Claim Cost*	ber of Expe-	Exposed per \$200	Claims	An- nual Claim Cost*		
No Obstetri- cal Benefits With Obstet- rical Bene- fits 9 Months	{3 ,875	781,572	6,717,132	\$ 8.59	1,131	303,869	3,370,971	\$11.09		
Waiting Period	17,212	3,006,857	37,380,041	12.43	7,479	1,566,975	22,553,619	14.39		

† See text for caution about comparison of annual claim costs of the two schedules.

* Per Basic Unit Exposed.

TABLE 7

GROUP HOSPITAL AND SURGICAL EXPENSE INSURANCE SECULAR TREND STANDARDIZED MORBIDITY RATIOS

Policy Year Experience	EMPLOYEE HOSPITAL EXPENSE NONRATED INDUSTRIES			SURG	DOYEE DICAL INSE †		dent Ho Expense	Dependent Surgical Expense Both Plans [#]		
	All $5\times$ Plans*	All 10× Plans*	All Plans*	\$150 Sched- ule	\$200 Sched- ule‡	All 5× Plans§	All 10× Plans§	All Plans§	\$150 Sched- ule	\$200 Sched- ule‡
1947	97% 98	84% 89	91% 94	89% 94		93% 97	85% 91	88% 93	90% 95	
1949	97	94	96	98		99	95	96	97	
1950 1951	99 105	99 103	99 104	99 102	95%	100 101	98 102	99 101	100 103	102%
1952 1953	109 112	109 116	109 114	108 113	99 103	104 109	104 108	104 109	103 102	98 101

* Published in Table 3a.

† Published in Table 4.

‡ Based on 3 years' experience.

§ Published in Table 5a.

Published in Table 6.

TABLE 8

ANALYSIS OF MALE AND FEMALE EXPERIENCE 1953 POLICY YEAR EXPERIENCE NONRATED INDUSTRIES—ALL EXPOSURE SIZES

	Ez	CPOSURE SIZE C	Grouping	s			
		07		0-9			
Plan		mount xposed	Female Per- cent- age of Total Expo- sure	Female Per- cent- age of Total Expo- sure	Male Param- eter		PARAM- ETER RATIO*
Group Weekly Indemnity Insurance							
1-4-13	<11% Σ	14,255,510 25,429,150	15	16	. 583	1.293	222%
4-4-13	<11% 2	2,960,770 5,792,800	17	15	. 670	1.248	186
1-8-13	<11% 2	35,347,880 81,259,310	21	19	. 473	1.198	253
8-8-13	<11% 2	12,091,660 33,409,170	24	21	. 510	1.165	228
1-8-26	<11% 2	8,532,030 14,737,390	14	13	. 649	1.320	203
8-8-26	${<}^{11\%}_{\Sigma}$	2, 879,12 0 5,331,870	15	14	. 645	1.097	170
Employee Hospital Expense		Í					
31 Day, 14+5×, 5×, Fixed Benefit	<11% 2	3,236,150 11,044,368	28	27	. 984	1.680	171
31 Day, 14+10×, 10×, Fixed Benefit	<11% 2	3,904,950 10,281,558	23	21	1.226	2.412	197
70 Day, 14+5×, 5×, Fixed Benefit	<11% ∑	723,004 2,511,258	26	23	1.115	1.798	161
31 Day, 10×, 10×, Reim- bursement.	<11% 2	$1,845,584 \\ 4,970,266$	24	23	1.155	2.046	177
Employee Surgical Expense \$150 Schedule	<11% 2	2,735,004 7,789,955	24	24	2.927	8.061	275
\$200 Schedule	<11% 2	861,528 1,985,820	20	19	3.783	9.936	263

* Based on experience of up to 5 years.

reports. Under Dependents Surgical Expense insurance (\$150 Schedule), a trend is not so apparent for the last few years. Under the \$200 Surgical Schedule, both the employee and dependent plans indicate an upward trend.

Male and Female Costs

As in the 1953 report, male and female parameters have been derived for the employee plans, together with a parameter ratio (female parameter divided by male parameter), which are shown in Table 8. The male and female parameters were derived from the experience of exposure size groups 0–7 included in Tables 1, 3a, and 4 and were adjusted to reproduce the crude claim costs of all exposure size groups for the 1953 policy year; the parameter ratios are based on the experience of up to 5 years contained in those tables. Hospital Expense plans for which less than 5 full years' experience is available (those in Table 3b) have not been included in Table 8. Last year's report discussed the considerations underlying these parameters and described their calculation in detail.

Dispersion of Claim Costs

Last year's report contained an illustration of the dispersion of crude claim costs of groups included in that study. While no attempt was made to measure the fluctuations present in this report, nevertheless the data underlying this year's tables were subject to the same influences. Accordingly, it must be recognized that many groups have greater claim costs than the average shown in this report.

Contributing Companies

The following companies contributed experience for the investigation covered in this report:

Aetna Life Insurance Company Connecticut General Life Insurance Company Continental Assurance Company Equitable Life Assurance Society John Hancock Mutual Life Insurance Company Metropolitan Life Insurance Company Prudential Insurance Company of America The Travelers Insurance Company