## **II. TECHNICAL**

# A. SOCIAL SECURITY AMENDMENTS SINCE THE 1992 REPORT

Since the 1992 Annual Report was transmitted to Congress, the Department of Labor, Health and Human Services, and Education, and Related Agencies Appropriations Act, 1993 (Public Law 102-394) was enacted on October 6, 1992. A section of this law affected the SMI program. It provided that funds in the SMI catastrophic coverage reserve fund be transferred to the HI trust fund. As a result, on March 31, 1993, \$1,805 million was transferred to the HI trust fund to compensate for the increased cost to that fund which occurred in 1989.

### B. NATURE OF THE TRUST FUND

The Federal SMI Trust Fund was established on July 30, 1965, as a separate account in the United States Treasury. All the financial operations of the SMI program are handled through this fund.

The major sources of revenue of the trust fund are: (1) contributions of the Federal Government that are authorized to be appropriated and transferred from the general fund of the Treasury and (2) premiums paid by eligible persons who are voluntarily enrolled in the program. The premiums paid by eligible persons in 1989 include both those specified by the Medicare Catastrophic Coverage Act of 1988 (Public Law 100-360) and those needed to finance the non-catastrophic benefits. With the enactment of the Medicare Catastrophic Coverage Repeal Act of 1989 (Public Law 101-234), there are no catastrophic premiums after 1989. Therefore, the discussion in the remainder of this section will deal only with non-catastrophic coverage. Eligible persons aged 65 and over have been able to enroll in the program since its inception in July 1966. Since July 1973, disabled persons under age 65, who have met certain eligibility requirements, have also been able to enroll in the program.

The premiums paid by enrollees are based on the standard monthly premium rate, which is the same for enrollees aged 65 and over and for disabled enrollees under age 65. Premiums paid for FY 1967 through 1973 were matched by an equal amount of Government contributions. Beginning July 1973, the amount of Government contributions corresponding to premiums

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paid by each of the two groups of enrollees is determined by applying a ratio (known as the matching ratio), prescribed in the law for each group, to the amount of premiums received from that group of enrollees. The ratio is equal to: (1) twice the amount of the monthly actuarial rate applicable to the particular group of enrollees, minus the amount of the standard monthly premium rate, divided by (2) the amount of the standard monthly premium rate.

Standard monthly premium rates and actuarial rates are promulgated each year by the Secretary of HHS. The standard monthly premium rates in effect from July 1966 through June 1983, the rate for July 1983 through December 1983, and the rates for CY 1984 through 1993 are shown in Table II.B.1. Actuarial rates and the corresponding matching ratios in effect from July 1973 through June 1983, the rates and ratios applicable for July 1983 through December 1983, and the rates and ratios for CY 1984 through 1993 are also shown. For a detailed discussion of the determination of the actuarial and premium rates, see appendix III.A.

	Standard	Monthly actuarial rate		Matching ratio		
	monthly premium rate	Enrollees aged 65 and over	Disabled enrollees under age 65	Enrollees aged 65 and over	Disabled enrollees under age 65	
July 1966 - March 1968	\$3.00	-	_	_	_	
April 1968 - June 1970	4.00	_	-	-	_	
12-month period ending June 30 of —						
1971	5.30	_	· _	_	_	
1972	5.60		_	-	_	
1973	5.80	_			-	
1974 <sup>1</sup>	6.30	\$6.30	\$14.50	1.0000	3.6032	
1975	6.70	6.70	18.00	1.0000	4.3731	
1976	6.70	7.50	18.50	1.2388	4.5224	
1977	7.20	10.70	19.00	1.9722	4.2778	
1978	7.70	12.30	25.00	2.1948	5.4935	
1979	8.20	13.40	25.00	2.2683	5.0976	
1980	8.70	13.40	25.00	2.0805	4.7471	
1981	9.60	16.30	25.50	2.3958	4.3125	
1982	11.00	22.60	36.60	3.1091	5.6545	
1983	12.20	24.60	42.10	3.0328	5.9016	

#### TABLE II.B.1.—STANDARD MONTHLY PREMIUM RATES, ACTUARIAL RATES, AND MATCHING RATIOS

	Standard	ard Monthly actuarial rate		Match	ing ratio
	monthly premium rate	Enrollees aged 65 and over	Disabled enrollees under age 65	Enrollees aged 65 and over	Disabled enrollees under age 65
July 1983 - December 1983	12.20	27.00	46.10	3.4262	6.5574
Calendar year					
1984	14.60	29.20	54.30	3.0000	6.4384
1985	15.50	31.00	52.70	3.0000	5.8000
1986	15.50	31.00	40.80	3.0000	4.2645
1987	17.90	35.80	53.00	3.0000	4.9218
1988	24.80	49.60	48.60	3.0000	2.9194
1989	31.90 <sup>2</sup>	55.80	34.30	3.0000 <sup>3</sup>	1.4588 <sup>3</sup>
1990	28.60	57.20	44.10	3.0000	2.0839
1991	29.90	62.60	56.00	3.1873	2.7458
1992	31.80	60.80	80.80	2.8239	4.0818
1993	36.60	70.50	82.90	2.8525	3.5301

### TABLE II.B.1.—STANDARD MONTHLY PREMIUM RATES, ACTUARIAL RATES, AND MATCHING RATIOS

<sup>1</sup>In accordance with limitations on the costs of health care imposed under Phase III of the Economic Stabilization program, the standard premium rate for July and August 1973 was set at \$5.80 and \$6.10, respectively. Effective September 1973, the rate increased to \$6.30.

<sup>2</sup>This is the premium paid by most groups. This rate includes the \$4.00 catastrophic coverage monthly premium which was paid by most enrollees.

<sup>3</sup>The matching ratios for CY 1989 apply to the non-catastrophic portion of the standard monthly premium rate.

Another source from which revenue of the trust fund is derived is interest received on investments held by the fund. The investment procedures of the fund are described later in this section. Section 201(i) of the Social Security Act authorizes the Managing Trustee to accept and deposit in the trust fund unconditional money gifts or bequests made for the benefit of the fund or for any activity financed through the fund.

Expenditures for benefit payments and administrative expenses under the program are paid out of the trust fund. All expenses incurred by the Department of HHS and by the Department of the Treasury in carrying out the SMI provisions of Title XVIII of the Social Security Act are charged to the trust fund. The Secretary of HHS certifies benefit payments to the Managing Trustee, who makes the payments from the trust fund in accordance therewith.

The Social Security Amendments of 1967 and 1972 authorize the Secretary of HHS to develop and conduct a broad range of experiments and demonstration projects designed to determine various methods of increasing efficiency and economy in providing health care services, while maintaining the quality of such services, under the HI and SMI programs. A sizeable portion of such costs of such experiments and demonstration projects are paid out of the HI and SMI trust funds, with the remainder funded through general revenues.

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Congress has authorized expenditures from the trust funds for construction, rental and lease, or purchase contracts of office buildings and related facilities for use in connection with the SMI program. Both the capital costs of construction financed directly from the trust fund and the rental and lease, or purchase contract costs of acquiring facilities are included in trust fund In 1972-75, construction of several large facilities was expenditures. authorized under purchase contract authority, wherein initial capital costs were borne by the private sector. Under this method of facilities acquisition, trust fund expenditures for use and ultimate Government ownership of a facility are made over periods of from 10 to 30 years. Whatever the manner of acquisition, the net worth of facilities and other fixed capital assets is not carried in the statement of the assets of the trust fund presented in this report. This is because the value of fixed capital assets does not represent funds available for benefit or administrative expenditures and, therefore, is not viewed as being a consideration in assessing the actuarial status of the funds.

That portion of the trust fund which, in the judgment of the Managing Trustee, is not required to meet current expenditures for benefits and administration is invested in interest-bearing obligations of the U.S. Government (including special public-debt obligations described below), in obligations guaranteed as to both principal and interest by the United States, or in certain federally sponsored agency obligations that are designated in the laws authorizing their issuance as lawful investments for fiduciary and trust funds under the control and authority of the United States or any officer of the United States. Obligations of these types may be acquired on original issue at the issue price or by purchase of outstanding obligations at their market price.

The Social Security Act authorizes the issuance of special public-debt obligations for purchase exclusively by the trust fund. The law requires that such special public-debt obligations shall bear interest at a rate based on the average market yield (computed on the basis of market quotations as of the end of the calendar month next preceding the date of such issue) on all marketable interest-bearing obligations of the United States forming a part of the public debt which are not due or callable until after the expiration of 4 years from the end of such calendar month.

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# C. SUMMARY OF THE OPERATIONS OF THE TRUST FUND, FISCAL YEAR 1992

A statement of the revenue and disbursements of the Federal SMI Trust Fund in FY 1992 and of the assets of the fund at the beginning and end of the fiscal year is presented in Table II.C.1.

### TABLE II.C.1.—STATEMENT OF OPERATIONS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND DURING FISCAL YEAR 1992

Total assets of the trust fund, beginning of period	-	\$15,674,765
Revenue:		
Premiums from enrollees:		
Enrollees aged 65 and over	\$11,564,155	
Disabled enrollees under age 65	1,183,780	
Total premiums		12,747,935
Transfers from general fund of the Treasury:		
Government contributions:		
Supplementary premiums of enrollees aged 65 and over	34,108,930	
Supplementary premiums of disabled enrollees under age 65	4,575,070	
Total Government contributions		38,684,000
Other		691
interest:		
Interest on investments	1,722,864	
Interest on amounts of interfund transfers <sup>1</sup>		
Total interest	_	1,715,935
Total revenue		53,148,561

[In thousands]

#### TABLE II.C.1.—STATEMENT OF OPERATIONS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND DURING FISCAL YEAR 1992

[in thousands]		
Disbursements:		
Benefit payments		48,627,076
Administrative expenses:		
Treasury administrative expenses	3,124	
Salaries and expenses - SSA	292,637	
Salarles and expenses - HCFA	1,341,938	
Salarles and expenses Office of Secretary	14,559	
Public Health Service	267	
Construction	762	
Policy and Research	2,451	
Pay Assessment Commission	545	
Office of Personnel Management expenses	. ý. <b>O</b>	
Physicians Payment Review	4,503	_
Total administrative expenses		1,660,785
Total disbursements		50,287,862
Net addition to the trust fund		2,860,700
Total assets of the trust fund, end of period		18,535,465

<sup>1</sup>A positive figure represents a transfer of interest to the SMI trust fund from the other trust funds. A negative figure represents a transfer of interest from the SMI trust fund to the other trust funds.

NOTE: Totals do not necessarily equal the sum of rounded components.

The total assets of the trust fund amounted to \$15,675 million on September 30, 1991. During FY 1992, total revenue amounted to \$53,149 million, and total disbursements were \$50,288 million. Total assets thus increased \$2,861 million during the year to a total of \$18,535 million on September 30, 1992.

Of the total revenue, \$11,564 million represented premium payments by (or on behalf of) enrollees aged 65 and over and \$1,184 million represented premium payments by (or on behalf of) disabled enrollees under age 65. Total premium payments amounted to \$12,748 million, an increase of 8.0 percent over the amount of \$11,807 million for the preceding year. This increase in premiums from enrollees resulted primarily from: (1) the increase from \$29.90 to \$31.80 per month in the standard premium rate that became effective on January 1, 1992 and (2) the growth of the number of persons enrolled in the SMI program.

Contributions received from the general fund of the treasury amounted to \$38,684 million, which accounted for 72.8 percent of total revenue. This amount consisted of \$34,109 million representing contributions relating to premiums paid by enrollees aged 65 and over, and \$4,575 million representing contributions relating to the premiums paid by disabled enrollees under age 65. The remaining \$1,717 million of revenue consisted almost entirely of interest on the investments of the trust fund.

Of the \$50,288 million in total disbursements, \$48,627 million represented: (1) benefits paid directly from the trust fund for health services covered under Title XVIII of the Social Security Act and (2) costs of experiments and demonstration projects in providing health care services. The remaining \$1,661 million of disbursements was for administrative expenses. Administrative expenses are allocated and charged directly to each of the four trust funds--old age and survivors insurance (OASI), disability insurance (DI), HI, and SMI--on the basis of provisional estimates. Similarly, the expenses of administering other programs of HCFA are also allocated and charged directly to the general fund of the Treasury on a provisional basis. Periodically, as actual experience develops and is analyzed, the allocations of administrative expenses and costs of construction for prior periods are adjusted by interfund transfers. This adjustment includes transfers between the HI and SMI trust funds and the program management general fund account, with appropriate interest allowances.

In Table II.C.2, the experience with respect to actual amounts of enrollee premiums, Government contributions, and benefit payments in FY 1992 is compared with the estimates for FY 1992 which appeared in the 1991 and 1992 annual reports.

#### TABLE II.C.2.—COMPARISON OF ACTUAL AND ESTIMATED OPERATIONS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND, FISCAL YEAR 1992

<u>Kem</u>		Com	parison of actual for FY 1992	experience with published in —	estimates	
		1992	report <sup>1</sup>	1991 report <sup>1</sup>		
	Actual <u>amount</u>	Estimated amount	Actual as percentage of estimate	Estimated amount	Actual as percentage of estimate	
Premiums from enrollees	\$12,748	\$12,616	101	\$12,559	102	
Government Contributions	38,684	38,684	100	40,403	96	
Benefit Payments	48,627	52,850	92	51,922	94	

[Dollar amounts in millions]

<sup>1</sup>Atternative II

Table II.C.3 shows a comparison of the total assets of the fund and their distribution at the end of FY 1991 and at the end of FY 1992. The assets of the trust fund at the end of FY 1991 totaled \$15,675 million, consisting of \$16,241 million in the form of obligations of the U.S. Government, and an undisbursed balance of -\$566 million. The assets of the trust fund at the end of FY 1992 totaled \$18,535 million, consisting of \$18,534 million in the form of obligations of the trust fund at the end of obligations of the U.S. Government and an undisbursed balance of almost \$2 million. A comparison of assets of the trust fund with liabilities for incurred but unpaid benefits (and related administrative expenses) is shown in the section I.D "Actuarial Status of the Trust Fund."

	September 30, 1991	September 30, 1992
Investments in public-debt obligations sold only to this fund (special issues):		
Certificates of indebtedness:	\$0.00	\$0.00
Bonds:		
7 3/8-percent, 1993-2007	0.00	3,171,661,000.00
8 1/8-percent, 1994-2006	3,947,379,000.00	3,719,999,000.00
8 3/8-percent, 2001	444,270,000.00	444,270,000.00
8 3/4-percent, 1994-2005	6,715,745,000.00	6,460,697,000.00
9 1/4-percent, 1993	396,568,000.00	0.00
9 3/4-percent, 1995	115,003,000,00	115,003,000.00
10 3/8-percent, 1994-2000	1,661,292,000.00	1,661,292,000.00
10 3/4-percent, 1994-98	809,231,000.00	809,231,000.00
13 1/4-percent, 1994-97	1,033,983,000.00	1,033,983,000.00
13 3/4-percent, 1994-99	1,117,677,000.00	1,117,677,000.00
Total investments in public-debt obligations	16,241,148,000.00	18,533,813,000.00
Undisbursed balance <sup>2</sup>	-566,382,643.54	1,652,046.00
Total assets	15,674,765,356.46	18,535,465,046.00

## TABLE II.C.3.—ASSETS OF THE SUPPLEMENTARY MEDICAL INSURANCE TRUST FUND AT THE END OF FISCAL YEARS 1991 AND 1992<sup>1</sup>

<sup>1</sup>The assets are carried at par value, which is the same as book value.

<sup>2</sup>Negative figures represented extension of credit against securities to be redeemed within the following few days.

The net increase in the par value of the investments held by the fund during FY 1992 amounted to \$2,293 million. New securities at a total par value of \$76,763 million were acquired during the fiscal year through the investment of revenue and reinvestment of funds made available from the redemption of securities. The par value of securities redeemed during the year was \$73,979 million. Included in these amounts is \$72,728 million in certificates of indebtedness that were acquired, and \$72,728 million in certificates of indebtedness that were redeemed, within the fiscal year.

The effective annual rate of interest earned by the assets of the SMI trust fund for the 12 months ending on June 30, 1992 was 9.3 percent. This period is used because interest on special issues is paid semiannually on June 30 and

December 31. The interest rate on special issues purchased by the trust fund in June 1992 was 7 3/8 percent, payable semiannually.

# D. ACTUARIAL METHODOLOGY AND PRINCIPAL ASSUMPTIONS FOR COST ESTIMATES FOR THE SUPPLEMENTARY MEDICAL INSURANCE PROGRAM

1. Estimates Under Alternative II Assumptions for Aged and Disabled (Excluding End-Stage Renal Disease) Enrollees

## a. Introduction

Estimates under alternative II assumptions for aged and disabled enrollees – excluding disabled persons with end-stage renal disease (ESRD) – are prepared by calculating allowed charges incurred per enrollee in a recent year (the 12-month period ending June 30, 1991, for this report) and projecting these charges through the estimating period. The per enrollee charges are then converted to reimbursement amounts by subtracting the per enrollee values of the deductible and coinsurance. Aggregate reimbursement amounts are calculated by multiplying the per enrollee reimbursement amounts by the projected enrollment. In order to estimate cash disbursements, an allowance is made for the delay between receipt of service and payment therefor.

Disabled persons with ESRD have per enrollee costs which are higher and quite different in nature from those of most other disabled persons. Hence, program costs for them have been excluded from the analysis in this section and are included in a later section.

### b. Establishing a Projection Base

### (1) Physician Services

Reimbursement amounts for physician services (and smaller amounts for other services such as laboratory tests, DME and supplies) are paid through organizations acting for HCFA, referred to as "carriers." The carriers determine whether billed services are covered under the program and determine the allowed charges for the services. A record of the amount reimbursed after reduction for coinsurance and the deductible is transmitted to the central office.

These records for 0.1 percent of aged beneficiaries and 5.0 percent of disabled beneficiaries are tabulated by date of service, thus providing a data base which is constructed on an incurred basis. Certain minor adjustments are made to the tabulated sample data to correct for biases and random fluctuations inherent in the sampling process. Having the data on an incurred basis is necessary to meet the statutory requirement that the program be financed on this basis.

As a check on the validity of the projection base, incurred reimbursement amounts are compared with cash expenditures reported by the carriers through an independent reporting system. In a program with continuously increasing incurred reimbursement amounts, cash payments are expected to be slightly lower than incurred expenses (except in the first year of coverage of a service or group of beneficiaries, when the difference should be substantial). These differences between cash and incurred reimbursement amounts occur because of the lag between receipt of services and payment therefor.

## (2) Institutional and Other Services

Reimbursement amounts for institutional services under the SMI program are paid by the same fiscal intermediaries that pay for HI services. The principal institutional services covered under the SMI program are outpatient hospital care services.

Reimbursements for institutional services occur in two stages. Provider bills are submitted to the intermediaries, and interim payments are made on the basis of these bills. The bills are then submitted to the central office, and tabulations for a sample of beneficiaries are prepared in a manner parallel to those records sent in by carriers.

At the close of a provider's accounting period, a cost report is submitted, and lump-sum payments or recoveries are made to correct for the difference between interim payments and final settlement amounts for providing covered services (net of coinsurance and deductible amounts). The difference is reported on a cash basis, and approximations are necessary to adjust to the time of service.

Group practice prepayment plans, which are not reimbursed through carriers, are reimbursed directly by HCFA on a reasonable cost or on a capitation basis. Comprehensive data on such direct reimbursements are available on a cash basis. Certain approximations must be made to allocate expenses to the period when services were rendered.

### (3) Summary of Historical Data

Table II.D.1 summarizes the incurred reimbursement amounts per enrollee for the various services for each of the 12-month periods ending June 30, through 1991. Also shown are average enrollment figures for these years. In order to analyze the historical trends in prices and use of services, these reimbursement amounts are converted to the allowed charges or reasonable costs on which reimbursement was based. This process is necessary largely because the fixed deductible becomes a smaller percentage of charges each year and thus causes reimbursement to rise faster than charges or costs. Table II.D.2 shows the incurred charges or costs per enrollee corresponding to the reimbursement values shown in Table II.D.1.

Year ending June 30,	Average enroliment [millions]	All services	Phys- Ician	Out- patient hospital	Home health agency <sup>1</sup>	GPPP <sup>2</sup>	Indep- endeni Iab
Aged:							
1967	17.750	\$62.51	\$59.12	\$1.41	\$0.79	\$0.89	\$0.30
1968	18.038	80.06	74.47	2.40	1.49	1.35	0.35
1969	18.833	93.74	85.67	4.21	1.92	1.54	0.40
1970	19.312	99.91	90.03	5.91	1.99	1.50	0.48
1971	19.664	106.25	95.05	7.53	1.67	1.40	0.60
1972	20.043	114.22	101.63	8.55	1.60	1.66	0.78
1973	20.428	122.39	107.98	9.43	2.17	1.87	0.94
1974	20.988	135.44	117.48	12.38	2.03	2.35	1.20
1975	21.504	161.29	136.28	16.47	3.83	3.07	1.64
1976	22.089	189.65	156.27	22.29	5.20	3.86	2.03
1977	22.604	222.37	179.30	29.65	6.53	4.42	2.47
1978	23.133	255.19	207.05	34.39	6.81	4.02	2.92
1979	23.693	290.21	233.99	41.18	6.86	4.87	3.31
1980	24.287	343.54	277.24	47.61	7.58	7.05	4.06
1981	24.827	407.75	328.14	57.05	8.04	9.13	5.39
1982	25.363	465.27	381.02	66.34	0.52	10.92	6.47
1983	25.873	558.54	456.25	80.66	0.77	13.52	7.34
1984	26.433	636.20	512.94	96.11	0.99	16.85	9.31
1985	26.914	686.34	538.90	111.74	1.05	19.52	15.13

TABLE II.D.1.—INCURRED	REIMBURSEMENT	AMOUNTS PEF	ENROLLEE:
	HISTORICAL DATA	L .	

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Year ending June 30,	Average enroliment [millions]	All services	Phys- iclan	Out- patient hospital	Home health agency <sup>1</sup>	GPPP <sup>2</sup>	Indep- endent lab
1986	27.453	782.10	594.10	133.88	1.19	31.70	21.23
1987	28.013	905.28	671.19	164.71	0.98	42.83	25.57
1988	28.497	1,022.60	741.96	187.27	1.55	61.73	30.09
1989	28.936	1,119.50	801.34	208.05	1.53	73.54	35.04
1990	29.380	1,211.14	864.95	214.56	2.92	86.99	41.72
1991	29.865	1,334.38	932.76	248.45	2.49	103.47	47.21
Disabled (ex	cluding ESRD	):					
1974	1.638	118.34	97.59	15.55	3.45	1.09	0.66
1975	1.817	150.96	125.62	18.84	3.58	1.86	1.06
1976	2.019	180.29	148.31	23.19	5.12	2.20	1.47
1977	2.231	222.31	174.82	38.28	4.79	2.42	2.00
1978	2.423	258.28	202.91	44.75	5.54	2.48	2.60
1979	2.564	303.69	240.74	51.75	5.96	2.06	3.18
1980	2.645	364.19	288.31	61.66	6.08	4.31	3.83
1981	2.691	435.38	340.40	77.84	7.22	5.23	4.69
1982	2.689	514.61	395.31	107.16	0.00	6.26	5.88
1983	2.632	626.59	485.62	126.12	0.00	7.54	7.31
1984	2.598	673.88	529.83	126.73	0.00	8.34	8.98
1985	2.596	706.93	553.47	130.51	0.00	9.27	13.68
1986	2.632	774.70	593.95	148.92	0.00	12.78	19.05
1987	2.681	860.69	657.81	164.33	0.00	16.30	22.25
1988	2.727	926.28	684.39	195.60	0.00	21.92	24.37
1989	2.761	976.01	722.11	201.31	0.00	25.52	27.07
1990	2.803	1,047.63	766.83	219.49	0.00	29.85	31.46
1991	2.869	1,149.80	829.29	250.27	0.00	34.50	35.74

## TABLE II.D.1.--INCURRED REIMBURSEMENT AMOUNTS PER ENROLLEE: HISTORICAL DATA

<sup>1</sup>Since July 1, 1981, home health agency services have been almost exclusively provided by the Medicare HI program. However, for those SMI enrollees not entitled to HI, the coverage of these services is provided by the SMI program. Since all SMI disabled enrollees are entitled to HI, their coverage of these services is provided by the HI program.

<sup>2</sup>Group practice prepayment plan

Year ending June 30,	Average enroilment [millions]	Ail services	Phys- ician	Out- patient hospital	Home health agency <sup>1</sup>	GPPP <sup>2</sup>	Indep- endent lab
Aged:							
1967	17.750	\$108.58	\$102.70	\$2.45	\$1.37	\$1.54	\$0.52
1968	18.038	128.08	119.02	3.89	2.42	2.18	0.57
1969	18.833	145.18	132.22	6.77	3.08	2.47	0.64
1970	19.312	153.63	137.86	9.43	3.17	2.40	0.77
1971	19.664	162.10	144.41	11.89	2.64	2.21	0.95
1972	20.043	172.75	153.15	13.32	2.49	2.58	1.21
1973	20.428	186.21	163.99	14.79	3.02	2.94	1.47
1974	20.988	205.52	178.04	19.38	2.54	3.68	1.88
1975	21.504	237.88	201.04	25.03	4.66	4.66	2.49
1976	22.089	273.30	225.26	33.12	6.18	5.73	3.01
1977	22.604	314.46	253.67	43.16	7.60	6.43	3.60
1978	23.133	355.53	288.50	49.28	7.81	5.76	4.18
1979	23.693	399.63	322.10	58.21	7.76	6.88	4.68
1980	24.287	466.40	376.29	66.22	8.44	9.80	5.65
1981	24.827	545.69	438.82	78.16	8.81	12.51	7.39
1982	25.363	628.91	513.49	91.03	0.52	14.99	8.88
1983	25.873	753.66	615.07	109.51	0.77	18.35	9.96
1984	26.433	852.60	687.12	129.29	0.99	22.67	12.53
1985	26.914	911.78	718.53	150.20	1.05	26.24	15.76
1986	27.453	1,031.78	787.37	178.79	1.19	42.33	22.10
1987	28.013	1,185.85	883.26	218.27	0.98	56.75	<b>26.59</b>
1988	28.497	1,341.66	978.04	248.63	1.56	81.96	31.47
1989	28.936	1,450.78	1,043.29	272.94	1.53	96.48	36.54
1990	29.380	1,582.54	1,137.09	284.35	2.96	114.28	43.86
1991	29.865	1,741.93	1,225.15	329.16	2.51	136.14	48.97
Disabled (	excluding ESRD	):					
1974	1.638	173.14	142.91	23.44	4.16	1.64	0.99
1975	1.817	214.00	178.14	27.44	4.17	2.71	1.54
1976	2.019	252.06	207.53	33.36	5.89	3.17	2.11
1977	2.231	305.80	240.20	53.97	5.40	3.41	2.82
1978	2.423	352.08	276.27	62.53	6.19	3.46	3.63
1979	2.564	409.13	323.96	71.37	6.58	2.84	4.38
1980	2.645	485.28	383.63	83.95	6.62	5.87	5.21
1981	2.691	573.7 <del>9</del>	447.87	104.79	7.77	7.04	6.32
1982	2.689	<b>683.9</b> 5	523.32	144.28	0.00	8.43	7.92
1983	2.632	832.12	643.94	168.36	0.00	10.06	9.76
1984	2.598	893.74	702.07	168.62	0.00	11.10	11.95
1985	2.596	932.78	732.16	174.02	0.00	12.36	14.24
1986	2.632	1,017.07	782.60	197.69	0.00	16.97	19.81
1987	2.681	1,123.85	862.32	216.90	0.00	21.51	23.12
1988	2.727	1,214.90	901.00	259.35	0.00	29.06	25.49
1989	2.761	1,268.47	942.04	264.64	0.00	33.55	28.24

## TABLE II.D.2.—INCURRED CHARGES OR COSTS PER ENROLLEE: HISTORICAL DATA

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Year ending June 30,	Average enroliment [millions]	All services	Phys- ician	Out- patient hospital	Home health agency <sup>1</sup>	GPPP <sup>2</sup>	Indep- endent lab
1990	2.803	1,374.16	1,010.24	291.53	0.00	39.30	33.09
1991	2.869	1,507.64	1,092.44	332.58	0.00	45.53	37.09

#### TABLE II.D.2.—INCURRED CHARGES OR COSTS PER ENROLLEE: HISTORICAL DATA

<sup>1</sup>Since July 1, 1981, home health agency services have been almost exclusively provided by the Medicare HI program. However, for those SMI enrollees not entitled to HI, the coverage of these services is provided by the SMI program. Since all SMI disabled enrollees are entitled to HI, their coverage of these services is provided by the HI program.

<sup>2</sup>Group practice prepayment plan

### c. Per Enrollee Increases

### (1) Physician Services

Per enrollee charges for physician services are affected by a variety of factors. One factor, increase in average charge per service, can be identified explicitly. Others can be recognized only by the fact that the increase in the average charge per service does not explain all of the increase in per enrollee charges year-to-year.

The increase in the average charge per service is one of the most important factors creating the increase in charges per enrollee. The physician fee component of the Consumer Price Index (CPI) provides an approximation of the historical increases in submitted charge per service. Increases in this index are shown in the first column of Table II.D.3.

		[in percent]		
	Increase due to	price changes		
Year ending June 30,	Increase in physician fee component of CPI	Net increase in allowed fees	Residual factors	Total increase in allowed charges per enrollee
Aged:				
1967	7.6	_		_
1968	5.9	4.8	10.6	15.9
1969	6.2	4.7	6.2	11.2
1970	6.7	3.9	0.4	4.3 <sub>.</sub>
1971	7.5	4.5	0.3	4.8
1972	5.2	<b>3</b> .9	2.0	6.0
1973	2.6	2.0	5.0	7.1
1974	5.0	3.2	5.2	8.6
1975	12.8	8.9	3.7	12.9
1976	11.4	8.2	3.6	12.1
1977	10.2	9.0	3.3	12.6
1978	8.9	9.0	4.3	13.7
1979	8.6	7.8	3.6	11.7
1980	11.5	8.6	7.6	16.8
1981	11.1	7.7	8.3	16.6
1982	9.9	10.8	5.6	17.0
1983	8.2	8.9	10.0	19.8
1984	7.5	7.2	4.2	11.7
1985	6.0	0.8	3.7	4.5
1986	6.7	0.3	9.3	9.6
1987	7.5	5.4	6.4	12.1
1988	7.2	3.1	7.4	10.7
1989	7.4	1.4	5.2	6.7
1990	7.1	1.0	7.9	9.0
1991	6.9	-1.5	9.4	7.8
Disabled (exclud	ing ESRD):			
1974	5.0			
1975	12.8	8.9	14.5	24.7
1976	11.4	8.2	7.7	16.5
1977	10.2	9.0	6.2	15.7
1978	8.9	9.0	5.5	15.0
1979	8.6	7.8	8.8	17.3
1980	11.5	8.6	9.1	18.5
1981	11.1	7.7	8.4	16.7
1982	9.9	10.8	5.5	16.8
1983	8.2	8.9	13.0	23.1
1984	7.5	7.2	1.7	9.0
1985	6.0	0.8	3.5	4.3
1986	6.7	0.3	6.6	6.9

# TABLE II.D.3.—COMPONENTS OF INCREASES IN TOTAL ALLOWED CHARGES PER ENROLLEE FOR PHYSICIAN SERVICES: HISTORICAL DATA [In percent]

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	Increase due to	Increase due to price changes		
Year ending June 30,	Increase in physician fee component of CPI	Net increase in allowed fees	Residuai factors	Total increase in allowed charges per enrollee
1987	7.5	5.4	4.5	10.1
1988	7.2	3.1	1.3	4.4
1989	7.4	1.4	3.1	4.5
1990	7.1	1.0	6.2	7.3
1991	6.9	-1.5	9.8	8.2

TABLE II.D.3.—COMPONENTS OF INCREASES IN TOTAL ALLOWED CHARGES PER
ENROLLEE FOR PHYSICIAN SERVICES: HISTORICAL DATA

Bills submitted to the carriers during a specified period, the fee-screen year, are subject by statute to certain limitations on the level of fees to be allowed by the program for reimbursement purposes. The fee-screen-year period has changed over the history of the program. For 1984 and earlier, the fee-screen year was the 12-month period ending June 30. Beginning with 1987, the feescreen year is on the calendar-year basis. Fee-screen years 1985 and 1986 were each 15-month periods allowing for the transition of the fee-screen years from the 12-month periods ending June 30 to the 12-month periods ending December 31. The fee level allowed for a particular service by a physician is subject to reduction if it exceeds the median charge that the physician assessed for the same service in the base period, the 12-month period ending 6 months prior to the beginning of the fee-screen year. This median charge is called the "customary charge." Fees are subject to further reduction if they exceed the prevailing charges for the locality. The prevailing charge is defined as the 75th percentile of customary charges for a particular service in a particular locality. Since July 1, 1975, the rate of increase in prevailing charges has been limited further by the application of the Medicare Economic Index. The customary and prevailing charge limits maintained by the carriers are called "fee screens." Allowed charges are charges after they have been reduced by the fee screens and are the charges on which reimbursement is based.

Public Law 101-239 provides for the replacement of customary and prevailing charges with fee schedules for physician services starting in CY 1992. The fee schedules will be based on a resource-based relative value scale. The fee schedule amount will be equal to the product of the procedure's relative value, a conversion factor and a geographic adjustment factor. Payments will be based on the lower of the actual charge and the fee schedule amount. For the

4-year period from 1992 to 1995, the fee schedule amounts will be adjusted to reflect the prevailing charges in each fee screen area.

Certain services included with the physician services are not subject to the same fee-screen reduction process as described above. Beginning July 1, 1984 a unique fee schedule was established for laboratory tests performed in physician offices and independent laboratories. Since that time other unique fee schedules or reimbursement mechanisms have been established for other services. The list of the services includes radiology, anesthesiology, certified registered nurse anesthetists, and DME.

Since legislation has twice changed the time span of the fee-screen year, and since the two transitional fee-screen years (1985 and 1986) cover 15-month periods, data presented in Tables II.D.1 through II.D.9 will be displayed for the same 12-month basis for all years. This basis will be the 12-month periods ending June 30.

The average reduction in submitted fees has increased almost every year. The result is that the net increase in allowed fees due to price changes (i.e., the increase in fee levels allowed for reimbursement purposes) has been less than the increase in submitted fees for most years. The second column of Table II.D.3 shows this increase in allowed fees due to price changes.

Per capita charges also have increased each year as a result of a number of possible factors including more physician visits per enrollee, the aging of the Medicare enrollment, greater use of specialists and more expensive techniques, and certain administrative actions. The third column of Table II.D.3 shows the increases in charges per enrollee resulting from these residual causes. Because the measurement of increased allowed charges per service is subject to error, this error is included implicitly under residual causes.

The last column of Table II.D.3 shows the total increases in charges per enrollee for physician services. It includes the effects of all the items discussed above.

Projected increases in total allowed charges per enrollee are shown in Table II.D.4. It compares with the corresponding historical data shown in Table II.D.3. Column 1 of Table II.D.4 shows the projected increases in the physician fee component of the CPI in each of the years ending June 30, 1992 through June 30, 2003. It represents an estimate of projected increases in the

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charges for all physician services (not only Medicare services). Column 2 shows the projected net increases in allowed charges, and column 3 shows the increases due to residual causes.

		• • •		
	Increase due to	price changes		
Year ending June 30,	Increase in physician fee component of CPI	Net increase in allowed fees	Residual factors <sup>1</sup>	Total increase ir allowed charges per enrollee
Aged:				
1992	5.9	-1.5	3.0	1.5
1993	6.2	0.4	1.9	2.3
1994	6.5	3.8	7.8	11.9
1995	6.5	5.2	7.7	13.3
1996	6.8	2.0	8.0	10.2
1997	6.4	0.7	8.4	9.2
1998	5.6	1.1	8.0	9.2
1999	5.5	0.9	8.0	9.0
2000	5.5	1.3	7.7	9.1
2001	5.4	1.9	7.4	9.4
2002	5.4	1.9	7.4	9.4
2003	5.4	1.8	7.5	9.4
isabled (excluding	g ESRD):			
1992	5.9	-1.5	-2.8	-4.3
1993	6.2	0.4	0.9	1.3
1994	6.5	3.8	6.3	10.3
1995	6.5	5.2	6.2	11.7
1996	6.8	2.0	8.9	11.1
1997	6.4	0.7	7.5	8.3
1998	5.6	1.1	6.4	7.6
1999	5.5	0.9	6.4	7.4
2000	5.5	1.3	6.2	7.6
2001	5.4	1.9	5.9	7.9
2002	5.4	1.9	5.8	7.8
2003	5.4	1.8	5.9	7.8

## TABLE II.D.4.—COMPONENTS OF INCREASES IN TOTAL ALLOWED CHARGES PER ENROLLEE FOR PHYSICIAN SERVICES: ESTIMATES [In percent]

<sup>1</sup>The physician conversion factor includes a baseline adjustment for the volume and intensity of services (or residual factors). Due to the transition rules, these adjustments affect price changes in calendar years 1992 through 1996. These adjustments are included in the Medicare Volume Performance Standards. The adjustments for the years ending June 30 in the above tables are: - 1.3% in 1992, -1.6% in 1993, -0.7% in 1994, -0.7% in 1995, -0.7% in 1996, and -0.4% in 1997.

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## (2) Institutional and Other Services

The historical increases in charges and costs per enrollee for institutional and other services are shown in Table II.D.5, and the projected increases are shown in Table II.D.6. The year-to-year changes in some services have been quite erratic. At best, these series provide only a rough indication of future trends in costs. L

## TABLE II.D.5.---INCREASES IN RECOGNIZED CHARGES AND COSTS PER ENROLLEE FOR INSTITUTIONAL AND OTHER SERVICES: HISTORICAL DATA

Year ending June 30,	Outpatient hospital	Home health agency <sup>1</sup>	Group practice prepayment plan	Independent lab
Aged:				
1968	58.8	76.6	41.6	9.6
1969	74.0	27.3	13.3	12.3
1970	39.3	2.9	-2.8	20.3
1971	26.1	-16.7	-7.9	23.4
1972	12.0	-5.7	16.7	27.4
1973	11.0	21.3	14.0	21.5
1974	31.0	-15.9	25.2	27.9
1975	29.2	83.5	26.6	32.4
1976	32.3	32.6	23.0	20.9
1977	30.3	23.0	12.2	19.6
1978	14.2	2.8	-10.4	16.1
1979	18.1	-0.6	19.4	12.0
1980	13.8	8.8	42.4	20.7
1981	18.0	4.4	27.7	30.8
1982	16.5	-94.1	19.8	20.2
1983	20.3	48.1	22.4	12.2
1984	18.1	28.6	23.5	25.8
1985	16.2	6.1	15.7	25.8
1986	19.0	13.3	61.3	40.2
1987	22.1	-17.6	34.1	20.3
1988	13.9	59.2	44.4	18.4
1989	9.8	-1.9	17.7	16.1
1990	4.2	93.5	18.4	20.0
1991	15.8	-15.2	19.1	11.7
isabled (excluding	ESRD):			
1975	17.1	0.2	65.2	55.6
1976	21.6	41.2	17.0	37.0
1977	61.8	-8.3	7.6	33.6
1978	15.9	14.6	1.5	28.7

Year ending June 30,	Outpatient hospital	Hcme health agency <sup>1</sup>	Group practice prepayment plan	Independen lab
1979	14.1	6.3	-17.9	20.7
1980	17.6	0.6	106.7	18.9
1981	24.8	17.4	19.9	21.3
1982	37.7	-100.0	19.7	25.3
1983	16.7	0.0	19.3	23.2
1984	0.2	0.0	10.3	22.4
1985	3.2	0.0	11.4	19.2
1986	13.6	0.0	37.3	39.1
1987	9.7	0.0	26.8	16.7
1988	19.6	0.0	35.1	10.3
1989	2.0	0.0	15.5	10.8
1990	10.2	0.0	17.1	17.2
1991	14.1	0.0	15.9	12.1

### TABLE II.D.5.—INCREASES IN RECOGNIZED CHARGES AND COSTS PER ENROLLEE FOR INSTITUTIONAL AND OTHER SERVICES: HISTORICAL DATA

<sup>1</sup>Since July 1, 1981, home health agency services have been almost exclusively provided by the Medicare HI program. However, for those SMI enrollees not entitled to HI, the coverage of these services is provided by the SMI program. Since all SMI disabled enrollees are entitled to HI, their coverage of these services is provided by the HI program.

### TABLE II.D.6.---INCREASES IN RECOGNIZED CHARGES AND COSTS PER ENROLLEE FOR INSTITUTIONAL AND OTHER SERVICES: ESTIMATES

[In percent]

Year ending June 30,			Group practice prepayment plan	Independent lab	
Aged:					
1992	6.4	14.6	15.2	13.3	
1993	20.9	16.7	13.1	6.7	
1994	13.2	15.0	18.6	20.5	
1995	14.5	16.1	18.7	21.2	
1996	16.0	15.1	18.6	21.0	
1997	13.3	16.1	18.7	21.2	
1998	13.2	15.4	18.6	21.3	
1999	13.2	16.0	18.6	21.4	
2000	13.2	15.5	18.6	21.5	
2001	13.2	15.5	18.6	21.5	
2002	13.2	15.5	18.6	21.5	
2003	13.2	15.5	18.6	21.5	

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### TABLE II.D.6.—INCREASES IN RECOGNIZED CHARGES AND COSTS PER ENROLLEE FOR INSTITUTIONAL AND OTHER SERVICES: ESTIMATES

Year ending June 30,	Outpatient hospital	Home health agency <sup>1</sup>	Group practice prepayment plan	Independent lab
isabled (excluding	ESRD):			
1992	9.9	0.0	8.1	19.0
1993	16.2	0.0	2.4	-0.1
1994	12.1	0.0	17.4	16.9
1995	13.1	0.0	16.4	17.6
1996	16.3	0.0	21.6	19.7
1997	12.7	0.0	17.6	18.0
1998	12.0	0.0	16.2	17.5
1999	12.1	0.0	16.5	17.5
2000	12.1	0.0	16.1	17.8
2001	12.1	0.0	16.1	17.8
2002	12.1	0.0	16.1	17.8
2003	12.1	0.0	16.1	17.8

<sup>1</sup>Since July 1, 1981, home health agency services have been almost exclusively provided by the Medicare HI program. However, for those SMI enrollees not entitled to HI, the coverage of these services is provided by the SMI program. Since all SMI disabled enrollees are entitled to HI, their coverage of these services is provided by the HI program.

#### d. Projected Charges and Costs

Table II.D.7 shows projections of per enrollee incurred charges and costs based on the assumptions in Tables II.D.4 and II.D.6. Table II.D.8 shows the total reimbursement amounts per enrollee that result from subtracting the average amounts of copayment per enrollee from the total covered charges in Table II.D.7. The aggregate reimbursement amounts shown are derived by multiplying average enrollment by average reimbursement per enrollee.

Year ending June 30,	All services	Physician	Outpatient hospital	Home health agency <sup>1</sup>	Group practice prepayment plan	Independent lab
Aged:						
1992	\$1,807.85	\$1,242.47	\$350.21	\$2.88	\$156.80	\$55.49
1993	1,934.15	1,270.83	423.48	3.36	177.26	59.22
1994	2,186.45	1,421.64	479.34	3.86	210.25	71.36
1995	2,499.77	1,610.28	548.96	4.48	249.54	86.51
1996	2,815.82	1,773.16	636.89	5.16	295.93	104.68
1997	3,140.72	1,934.74	721.85	5.99	351.25	126.89
1998	3,506.90	2,112.39	817.11	6.91	416.60	153.89
1999	3,915.23	2,301.30	925.04	8.02	494.09	186.78
2000	4,380.95	2,511.49	1,047.25	9.27	586.01	226.93
2001	4,916.79	2,749.74	1,185.60	10.71	695.03	275.71
2002	5,523.89	3,009.98	1,342.23	12.37	824.33	334.98
2003	6,211.47	3,292.96	1,519.55	14.29	977.68	406.99
lisabled (exclu	ding ESRD):					
1992	1,505.18	1,046.33	365.51	0.00	49.20	44.14
1993	1,578.98	1,059.71	424.79	0.00	50.39	44.09
1994	1,756.14	1,169.07	476.36	0.00	59.17	51.54
1995	1,974.13	1,305.89	538.73	0.00	68.88	60.63
1996	2,233.10	1,450.26	626.49	0.00	83.75	72.60
1997	2,460.11	1,569.67	706.25	0.00	98.50	85.69
1998	2,694.80	1,688.48	791.16	0.00	114.48	100.68
1999	2,950.99	1,812.58	886.72	0.00	133.39	118.30
2000	3,236.97	1,949.18	993.57	0.00	154.87	139.35
2001	3,560.09	2,102.84	1,113.30	0.00	179.81	164.14
2002	3,917.70	2,268.15	1,247.45	0.00	208.76	193.34
2003	4,312.95	2,445.07	1,397.77	0.00	242.37	227.74

### TABLE II.D.7.---INCURRED CHARGES OR COSTS PER ENROLLEE: ESTIMATES

<sup>1</sup>Since July 1, 1981, home health agency services have been almost exclusively provided by the Medicare HI program. However, for those SMI enrollees not entitled to HI, the coverage of these services is provided by the SMI program. Since all SMI disabled enrollees are entitled to HI, their coverage of these services is provided by the HI program.

		Reimbursemei	nt amounts
Year ending June 30,	Average enrollment [millions]	Per enrollee	Aggregate [millions]
ged:			
1992	30.363	1,395.15	42,361
1993	30.795	1,496.96	46,099
1994	31.186	1,701.73	53,070
1995	31.551	1,956.10	61,717
1996	31.886	2,213.17	70,569
1997	32.156	2,477.98	79,682
1998	32.355	2,776.82	89,844
1999	32.515	3,111.24	101,162
2000	32.682	3,491.40	114,106
2001	32.883	3,930.21	129,237
2002	33.051	4,427.97	146,349
2003	33.263	4,992.60	166,069
Disabled (excluding ES	RD):		
1992	3.003	1,153.18	3,463
1993	3.199	1,212.25	3,878
1994	3.461	1,355.39	4,691
1995	3.754	1,532.23	5,752
1996	4.041	1,742.14	7,040
1997	4.316	1,926.55	8,315
1998	/ 4.581	2,117.44	9,700
1999	4.838	2,326.37	11,255
2000	5.081	2,559.34	13,004
2001	5.309	2,822.94	14,987
2002	5.528	3,114.87	17,219
2003	5.719	3,438.19	19,663

#### TABLE II.D.8.-INCURRED REIMBURSEMENT AMOUNTS: ESTIMATES

## 2. Estimates Under Alternative II Assumptions for Persons Suffering From End-Stage Renal Disease

Certain persons suffering from ESRD have been eligible to enroll for SMI coverage since July 1973 (under Section 2991 of Public Law 92-603). For analytical purposes, those enrollees suffering from ESRD who are also eligible as disability insurance beneficiaries are included in this section because their per enrollee costs are both higher and different in nature from those of most other disabled persons.

The alternative II estimates reflect the unique payment mechanism through which ESRD services are reimbursed under Medicare. Also, the estimates assume a continued increase in enrollment. The historical and projected enrollment and costs for SMI benefits are shown in Table II.D.9.

Year ending June 30,	•	Average enrollment [thousands]		sement sns]
	Disabled ESRD	ESRD only	Disabled ESRD	ESRD only
1974	4	8	\$46	\$91
1975	7	11	84	131
1976	11	13	137	163
1977	14	15	145	194
1978	16	16	163	231
1979	18	20	206	296
1980	18	23	231	315
1981	20	25	272	354
1982	22	28	310	407
1983	24	31	349	469
1984	26	34	378	501
1985	29	37	418	550
1986	31	41	445	596
1987	33	44	468	631
1988	35	48	529	697
1989	37	53	575	798
1990	38	59	601	926
1991	39	64	692	1155
1992	41	68	757	1256
1993	43	71	806	1324
1994	46	75	879	1429
1995	48	78	981	1581
1996	50	82	1103	1761
1997	53	85	1233	1949
1998	55	89	1368	2145
1999	57	93	1516	2358
2000	60	96	1684	2596
2001	62	100	1874	2865
2002	64	104	2087	3164
2003	66	108	2323	3493

#### TABLE II.D.9.—ENROLLMENT AND INCURRED REIMBURSEMENT FOR END-STAGE RENAL DISEASE

## 3. Summary of Aggregate Reimbursement Amounts on a Cash Basis Under Alternative II Assumptions

Table II.D.10 shows aggregate historical and projected reimbursement amounts on a cash basis under alternative II assumptions, by type of beneficiary. The difference between reimbursement amounts on a cash basis and incurred reimbursement amounts results from the lag between the time of service and the time of payment.

[In millions]					
Fiscal Year <sup>1</sup>	Aged	Disabled [excluding ESRD]	Disabled ESRD and ESRD only	Total	
listorical Data:					
1967	\$664			\$664	
1968	1,390	_		1,390	
1969	1,645	_	_	1,645	
1970	1,979	_	_	1,979	
1971	2,035			2,035	
1972	2,255	<del>_ · ·</del>		2,255	
1973	2,391			2,391	
1974	2,541	\$191	\$142	2,874	
1975	3,289	259	217	3,765	
1976	4,042	343	287	4,672	
T.Q.	1,078	109	82	1,269	
1977	5,013	494	360	5,867	
1978	5,795	620	437	6,852	
1979	6,940	785	534	8,259	
1980	8,497	1,022	625	10,144	
1981	10,370	1,273	702	12,345	
1982	12,418	1,593	795	14,806	
1983	14,783	1,807	897	17,487	
1984	16,804	1,759	910	19,473	
1985	19,077	1,783	948	21,808	
1986	22,067	2,074	1,028	25,169	
1987	26,350	2,439	1,148	29,937	
1988	29,796	2,609	1,277	33,682	
1989	32,748	2,689	1,430	36,867	
1990	36,837	3,077	1,584	41,498	
1991	40,198	3,435	1,881	45,514	
1992	42,784	3,812	2,031	48,627	
Estimates:					
1993	47,343	4,020	2,058	53,421	
1994	54,231	4,845	2,257	61,333	
1995	63,041	5,955	2,505	71,501	
1996	71,950	7,225	2,800	81,975	
1997	81,294	8,528	3,101	92,923	
1998	91,640	9,946	3,419	105,005	
1999	103,248	11,533	3,773	118,554	
2000	116,567	13,323	4,169	134,059	
2001	131,985	15,346	4,616	151,947	
2002 ·	149,550	17,610	5,113	172,273	

# TABLE II.D.10.—AGGREGATE REIMBURSEMENT AMOUNTS ON A CASH BASIS

<sup>1</sup>For 1967 through 1976, fiscal years cover the interval from July 1 through June 30; the 3-month interval from July 1, 1976, through September 30, 1976, is labeled "T.Q.," the transition quarter; fiscal years 1977-2002 cover the interval from October 1 through September 30.

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## 4. Administrative Expenses

The ratio of administrative expenses to benefit payments has been under 5 percent in recent years and is projected to decline in future years. Projections of administrative costs are based on estimates of changes in average annual wages.

### 5. Cash Disbursements as a Percent of the Gross Domestic Product

Cash disbursements (benefit payments and administrative expenses) for alternative I and III assumptions were developed by examining the alternative II cash disbursements as a percentage of GDP. Beginning in the middle of CY 1993, the rate of growth of the alternative I cash benefits as a percentage of the GDP is assumed to be 2 percent less than the rate of growth of the alternative II benefits as a percentage of the GDP. Similarly, the rate of growth of the alternative III cash benefits as a percentage of the GDP is assumed to be 2 percent more than the rate of growth of the alternative II cash benefits as a percentage of the GDP. Administrative expenses for alternatives I and III are projected based on their respective wage series growth. Based on the above methodology, cash disbursements as a percentage of the GDP were calculated for all three alternatives and are displayed in Table II.D.11.

Calendar year	Alternatives		
		!!	111
1992	0.85	0.85	0.86
1993	0.89	0.91	0.91
1994	0.95	0.99	1.02
1995	1.02	1.08	1.14
1996	1.08	1.16	1.23
1997	1.14	1.25	1.37
1998	1.19	1.33	1.49
1999	1.24	1.42	1.61
2000	1.30	1.51	1.75
2001	1.36	1.61	1.91
2002	1.42	1.72	2.08

TABLE II.D.11.—SUPPLEMENTARY MEDICAL INSURANCE CASH DISBURSEMENTS AS A PERCENT OF THE GROSS DOMESTIC PRODUCT FOR CALENDAR YEARS 1992-2002<sup>1</sup>

<sup>1</sup>Disbursements are the sum of benefit payments and administrative expenses.