

National health expenditures, 1984

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Growth in health care expenditures slowed to 9.1 percent in 1984, the smallest increase in expenditures in 19 years. Economic forces and emerging structural changes within the health sector played a role in slowing growth.

Of the \$1,580 per person spent for health care in 1984, 41 percent was financed by public programs; 31 percent by private health insurance; and the remainder by other private sources. Together, Medicare and Medicaid accounted for 27 percent of all health spending.

Highlights

Spending for health in the United States reached \$387 billion in 1984, amounting to 10.6 percent of the gross national product, down from 10.7 percent in 1983 (Table 1). Increases in expenditures slowed to 9.1 percent in 1984—the first time in 19 years that the increase has been less than 10 percent (Figure 1). Highlights of the figures that underly these statistics include the following:

- Almost one-half of the dollars spent for health went for institutional (hospital and nursing home) care and another fifth purchased services of health professionals (Figure 2).
- Forty percent of the expenditures for health in 1984 was made by all levels of government, and 30 percent was channeled through private health insurance.
- Health expenditures per person grew \$119 in 1984 to a level of \$1,580—8.1 percent more than in 1983.
- Spending for personal health care rose to \$342 billion (up 8.5 percent from 1983), averaging \$1,394 for every man, woman, and child in the United States.
- Growth in hospital spending, at 6.1 percent, was the slowest in 19 years. Hospital expenditures totaling \$158 billion accounted for 46 percent of all personal health care spending in 1984.
- Physician expenditures grew 10.2 percent in 1984 to \$75 billion.
- The proportion of personal health care financed by private health insurance dropped slightly in 1984 to 31 percent. Direct patient payments offset that decline.
- Medicare spent \$63 billion for health care in 1984 (18 percent of total personal health care expenditures); Medicare continued to finance an increasing share of all personal health care.
- Medicaid (Federal and State shares combined) financed \$37 billion in personal care. With program outlays growing 8 percent in 1984, States appeared to be controlling the more than 15-percent growth that plagued the program in 1979-81.

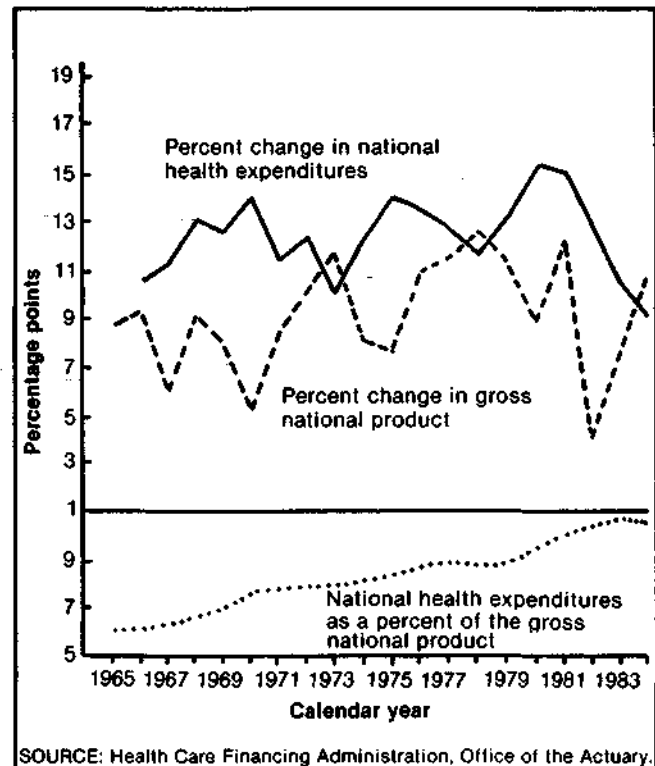
- Despite the increasing share of personal health care expenditures accounted for by Medicare, the proportion funded by all public programs remained virtually unchanged over the past 5 years at 40 percent.

Overview

Expenditures for health in 1984 reached \$387 billion, increasing 9.1 percent between 1983 and 1984. This rate of growth was much slower than the 12.7 percent averaged between 1970 and 1983. Health spending amounted to 10.6 percent of the gross national product (GNP). Slower growth in health spending, coupled with the rapid recovery of the general economy from the

Figure 1

Growth in national health expenditures and in the gross national product, and national health expenditures as a percent of the gross national product: Calendar years 1965-84



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This article continues a series of reports begun in the Department of Health, Education, and Welfare (Reed and Rice, 1964). The series, now the responsibility of the Health Care Financing Administration, presents the National Health Accounts of the United States.

1981-82 recession, resulted in a drop in the health expenditure share of the GNP for only the third time in 20 years.

Although part of the slowdown in growth of health spending is attributable to a reduction in the general rate of inflation, other, more fundamental changes have occurred in the delivery of services and in the financing of care. All indications suggest that the future of the health industry will be markedly different from the past.

Changes in the delivery of health care

Mounting pressures on the traditional health system forced changes to occur in the delivery of health care goods and services. The rapid growth of health care prices and the attendant drain on financial resources caused increasing cost consciousness on the part of consumers, employers, and government. Changes in the family structure and mobility of the population affected the traditional delivery system as well. The gradual disappearance of the extended family, a major source of nursing-type health care for the elderly, forced more of that care to come from the "official" health system. Also, the increased mobility of the population eroded the traditional concept of a personal physician because persons may not reside in one location long enough to develop a relationship with a physician. Finally, increased competition for patients manifested itself in changes in the traditional modes of care. The response

within the health industry to these pressures has been the development of new providers and services and dramatic growth of some existing ones.

Health maintenance organizations

Health maintenance organizations (HMO's) deliver comprehensive, coordinated medical services to voluntarily enrolled members on a prepaid basis. There are three basic types of HMO's. "A *group/staff HMO* delivers services at one or more locations through a group of physicians that contracts with the HMO to provide care or through its own physicians who are employees of the HMO. An *individual practice association (IPA)* makes contractual arrangements with doctors in the community, who treat HMO members out of their own offices. A *network HMO* contracts with two or more group practices to provide health services" (Office of Health Maintenance Organizations, 1985).

HMO's appeal to health care funding authorities because an HMO contract provides enrollees with a specified package of benefits for a fixed, prepaid, per capita premium. The HMO accepts the financial risk for providing its services, and the funding authority has a predictable cost. Hospital use in HMO's and, consequently, health care costs generally are lower than in the fee-for-service sector. However, this may be in part the result of biased selection of healthy enrollees (Beebe, Lubitz, and Eggers, 1985), as people with chronic conditions have established relationships with

Figure 2
The Nation's health dollar, 1984

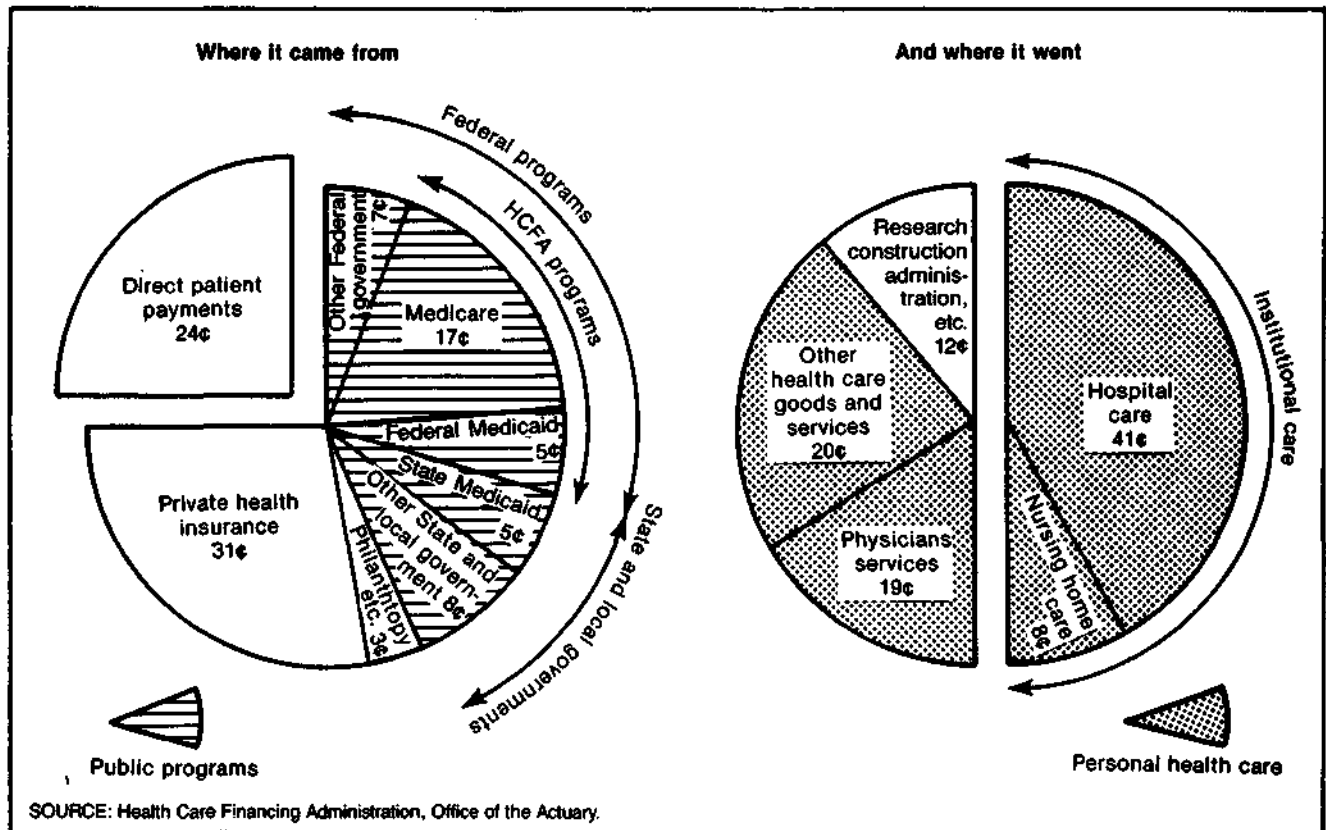


Table 1
Aggregate and per capita amounts and percent distribution of national health expenditures, by source
of funds: Selected calendar years 1929-84

Item	1984	1983	1982	1980	1975	1970	1967	1965	1960	1950	1940	1929
National health expenditures:												
In billions	\$387.4	\$355.1	\$321.2	\$247.5	\$132.7	\$75.0	\$51.5	\$41.9	\$26.9	\$12.7	\$4.0	\$3.6
Percent of gross national product	10.6	10.7	10.5	9.4	8.6	7.6	6.4	6.1	5.3	4.4	4.0	3.5
Sources of funds in billions:												
Private expenditures	\$227.1	\$207.0	\$186.1	\$142.2	\$76.4	\$47.2	32.5	30.9	20.3	9.2	3.2	3.2
Public expenditures	160.3	148.1	135.1	105.3	56.3	27.8	19.0	11.0	6.6	3.4	.8	.5
Federal expenditures	111.9	102.7	93.2	71.0	37.0	17.7	11.9	5.5	3.0	1.6	(²)	(²)
State and local expenditures	48.3	45.4	41.9	34.3	19.3	10.1	7.0	5.5	3.6	1.8	(²)	(²)
Expenditures per capita¹	1,580	1,461	1,334	1,049	591	350	248	207	146	82	30	29
Private expenditures	926	852	773	603	340	221	157	152	110	60	24	25
Public expenditures	654	609	561	447	251	130	91	54	36	22	6	4
Federal expenditures	457	423	387	301	165	83	57	27	16	10	(²)	(²)
State and local expenditures	197	187	174	146	87	47	34	27	20	12	(²)	(²)
Percent distribution of funds	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private funds	58.6	58.3	57.9	57.4	57.5	63.0	63.2	73.8	75.3	72.8	79.7	86.4
Public funds	41.4	41.7	42.1	42.6	42.5	37.0	36.8	26.2	24.7	27.2	20.3	13.6
Federal funds	28.9	28.9	29.0	28.7	27.9	23.6	23.2	13.2	11.2	12.8	(²)	(²)
State and local funds	12.5	12.8	13.0	13.9	14.5	13.5	13.7	13.0	13.5	14.4	(²)	(²)
Addenda:												
Gross national product in billions	\$3,862.8	\$3,304.8	\$3,069.2	\$2,631.7	\$1,549.2	\$992.7	799.6	691.0	506.5	286.5	100.0	103.4
July 1 population in millions	245.2	243.1	240.7	235.9	224.5	214.0	207.6	203.0	183.8	154.7	134.6	123.7
Annualized percent change from the previous period shown:												
National health expenditures	9.1	10.6	13.9	13.3	12.1	13.4						
Private expenditures	9.7	11.2	14.4	13.2	10.1	13.3	10.8	9.3	7.8	12.2	.8	(²)
Public expenditures	8.2	9.6	13.2	13.3	15.2	13.6	2.5	8.8	8.2	11.2	.1	(²)
Federal expenditures	9.0	10.2	14.6	13.9	16.0	14.0	31.3	10.6	6.8	15.5	4.6	(²)
State and local expenditures	6.5	8.4	10.4	12.2	13.8	12.8	46.7	12.9	6.5	(²)	(²)	(²)
Gross national product	10.8	7.7	8.0	11.2	9.3	7.5	13.6	8.5	7.2	(²)	(²)	(²)
Population	.9	1.0	1.0	1.0	1.0	1.0	7.6	6.4	5.9	11.1	-.3	(²)
							1.1	2.0	1.7	1.4	.8	(²)

¹ Based on July 1 social security area population estimates.

² Data are not available.

SOURCE: Health Care Financing Administration, Office of the Actuary.

individual physicians and may be less likely to join an HMO (DesHarnais, 1985).

HMO's are growing rapidly. As of December 1984, 17 million people were enrolled, up 22 percent from 1983 and double the enrollment of 6 years ago.

"The greatest gains in enrollment were made by plans less than 5 years old, by IPA and network model HMO's, and by plans with more than 50,000 members. The growth of IPA's and networks is particularly significant, according to InterStudy president Paul M. Ellwood, M.D.: "The rapid proliferation of nongroup models indicates that the explosive growth of alternative delivery systems has outpaced the service capacity of existing medical groups. The new physicians that are being drawn into HMO's are coming from solo and small group fee-for-service practices. The number of physicians in health plans exceeded 80,000 this year, which is a sufficient number to serve about 30 percent of the U.S. population" (InterStudy, 1985).

In the National Health Accounts, HMO hospital care is included with hospital expenditures. Other HMO expenditures are included with physicians' services or with other professional services, depending on the organization of the HMO.

Ambulatory care

Freestanding ambulatory care centers (also known as emergi- or urgi-centers) provide episodic care on a walk-in basis. Typically, these centers feature extended hours and prefer to operate on a pay-as-you-go basis.

Ambulatory care centers offer advantages to certain groups of patients and physicians. These facilities provide services to those people who do not have an established family physician. Most ". . . are centered in western and sun belt States, where the population is growing, people are mobile, and fewer have private physicians . . ." (Horwitz, 1985). For physicians who lack the time and/or financial resources to establish a private practice, these facilities offer a setting in which they can deliver services.

Hospitals, on the other hand, view these facilities as "skimming" the least sick of the walk-in patient load, leaving the acute and critical cases for hospital emergency rooms. Hospitals then must spread the fixed costs of maintaining a fully equipped hospital emergency room over fewer cases, raising the average cost of treating those cases.

This type of provider has demonstrated rapid growth in recent years. The number of ambulatory care centers increased from 80 in 1978 to 2,300 in 1984, generating revenue of about \$1 billion a year (Jaggar, 1985).

In the National Health Accounts, freestanding ambulatory care centers not owned by health providers are included in other professional services. Those owned by health providers are included with those providers.

Preferred provider organizations

Another type of provider that developed in response to pressures faced by funders of health care was the preferred provider organization (PPO). Generally, a PPO agrees to provide services to a specific population on a discounted fee-for-service basis; some PPO's offer utilization review services as well.

The PPO offers advantages to the employer and insurer, to the consumer, and to the provider. The employer pays less for fee-for-service benefits than would otherwise be the case. The employee has a greater choice of providers than in the case of an HMO, but has a financial incentive (such as reduced coinsurance or deductibles) to use the PPO. The provider is assured access to a pool of patients.

Although PPO's have been widely discussed in the literature, they have yet to become a significant portion of the national health care picture. The number of such groups increased from 33 in 1982 to 115 in 1984; about one-half of them are located in California (Gable and Erman, 1985). Roughly 1.3 million people (or one-half of 1 percent of the U.S. population) are covered by PPO agreements.

In the National Health Accounts, PPO's are treated as though they were individual providers.

Home health care

In the National Health Accounts, home health care covers preventive, supportive, therapeutic, or rehabilitative medical care provided in a home setting. A broader industry definition includes supportive social services such as homemaker, choreworker, home delivered meals, friendly visits, and telephone reassurance. Regardless of definition, the area has been one of rapid growth.

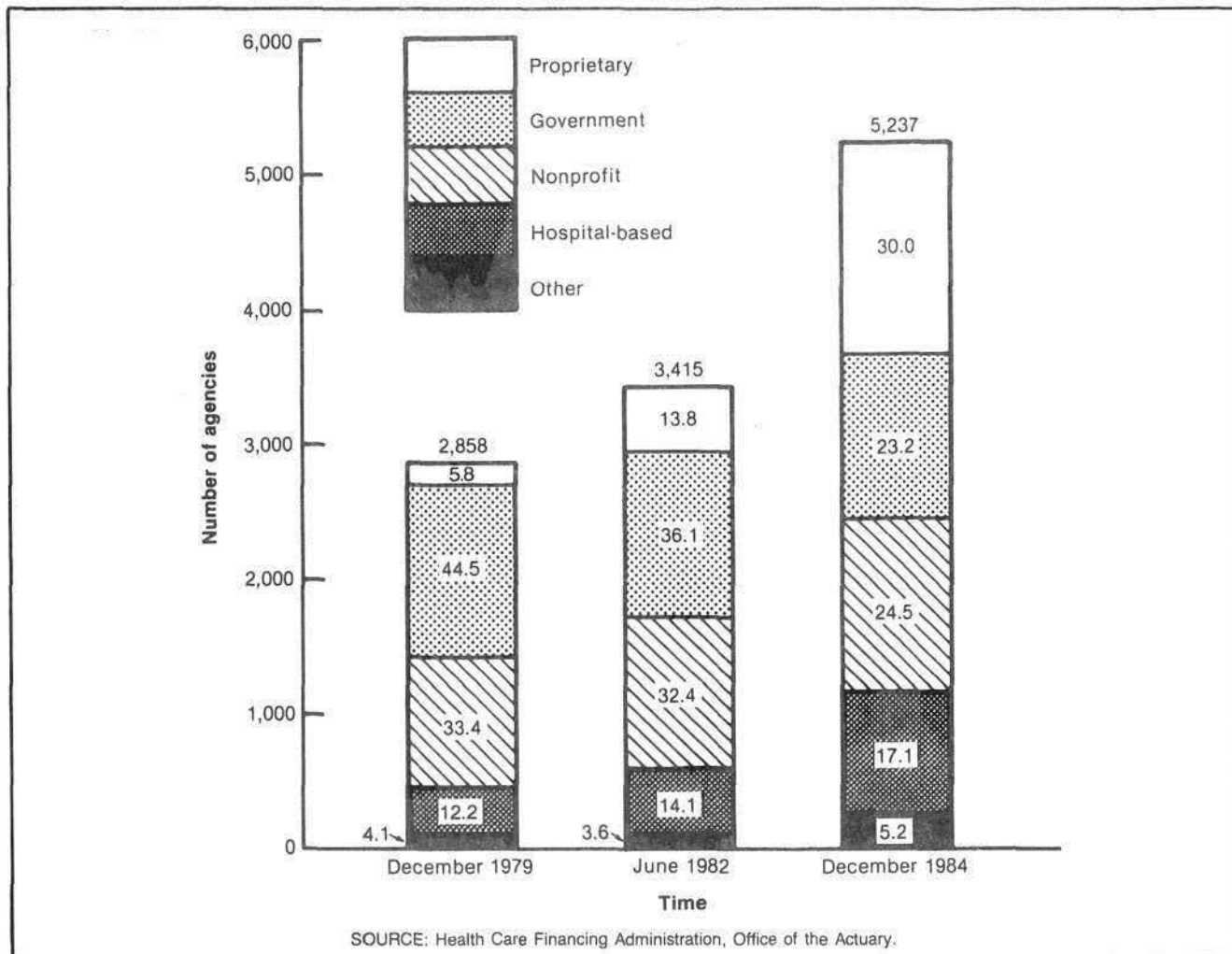
Home health care has a number of advantages for the patient. As a substitute for institutional care, home health services allow patients to remain in their own homes which adds to the psychological wellbeing of the patient, and can involve less cost.

Home health agencies (HHA's) also play an important role in hospitals' efforts to maintain revenue. The home health department's most important function is to serve as "feeders" for the hospital, identifying potential patients and directing them to the hospital. Under pressure through the prospective payment system (PPS) to reduce inpatient costs, hospital-based home health care also allows the hospital to discharge patients and continue to generate revenue from the patient's care. Such departments offer a wider base over which to spread overhead costs and serve as a marketing tool as well. Further, home health care reduces the hospital's exposure to malpractice suits (Cassak, 1984; Ginzberg, Balinsky, and Ostow, 1984).

Hospitals are moving into home health care in increasing numbers. In 1984, 42 percent of the Nation's hospitals offered home health services; that fraction is expected to reach 65 percent in 1985 (Glenn, 1985a).

Figure 3

Number and percent distribution of Medicare-certified home health agencies, by type of agency, selected points in time



Home health care is a small but rapidly growing segment of the health care delivery system, increasing at an estimated average annual rate of 20 percent to 25 percent in recent years. Current estimates of total industry spending project growth from \$9 billion in 1985 to \$16 billion in 1990 for home health products and services; 70 percent of the total is for services (Frost and Sullivan, 1983).

The home health care industry has changed dramatically. From delivery of nursing care by family and friends or Visiting Nurse Associations (VNA's), the industry has evolved into a complex health delivery system that involves Government; VNA's; private nonprofit, proprietary, and facility-based providers; and a variety of services (Figure 3). The most significant change in the home health industry has been the emergence of proprietary agencies, particularly chains, as the largest single form of organization. Studies indicate that HHA chains, perceiving home health to be a lucrative market, have been growing rapidly. Corporations controlling

the large HHA chains appear to be closely related to other primary health industries such as pharmaceuticals, nursing care facilities, and freelance medical staffing agencies (Williams, Gaumer, and Cella, 1984).

A major reason for the rapid growth of proprietary HHA's was a legislative change in 1980 that eased Medicare certification requirements for proprietary HHA's in States without licensure laws. The number of certified proprietary HHA's, currently 1,570 or 30 percent of all agencies, increased threefold between 1982 and 1984.

Because it has been estimated that people 65 years of age or over receive 85-90 percent of home health care furnished (Ginzberg, Balinsky, and Ostow, 1984; Frost and Sullivan, 1983; Cassak, 1984), the aging of the population is an important factor for industry growth. The population 65 years of age or over is projected to increase from 28.4 million people (or 11.6 percent of the population) in 1984, to 32.4 million (or 12.6 percent of the population) in 1990

(Social Security Administration, 1985). The average annual rate of growth of the aged population is expected to be 2½ times faster than the rate of growth of the overall population between 1984 and 1990.

Changes in the financing of health care

The second major force affecting the health care industry has been changes in the nature of financing health care. Those changes resulted from pressure building up on traditional sources of funds. The Government found itself faced with increased demands for health care dollars at the same time that growth of the flow of revenues to fund those programs slowed. The Federal Medicare program, in particular, was projected to become insolvent as early as 1987 in the absence of changes to entitlement, reimbursement, or coverage.

Business, too, felt the pressure of rising health expenditures. The U.S. Chamber of Commerce's Employee Benefits Survey noted increases in health insurance costs as a percentage of payroll costs: from 4.5 percent in 1980 to 6.1 percent in 1983. These costs can put a company at a competitive disadvantage both domestically and internationally. Regionally, ". . . for example, McDonnell Douglas Corporation pays double the hospital room rate in St. Louis that Boeing Company pays in Seattle. . . ." (Business Week, 1984). Further, in a period when U.S. firms face stiff competition from foreign manufacturers, anything that adds to costs of American goods threatens market position.

The response to these pressures has been to modify the method by which funders of health care pay for that care. In the case of Medicare PPS, implemented during 1983 and 1984, replaced a system of cost-based reimbursement with set prices for the treatment of each of 467 different diagnosis-related groups (DRG's).

Employers also have reacted to financial pressures. Coalitions have been formed to study the response to rising health care costs and to put pressure on providers and insurers to assure efficient use of health care goods and services. Many businesses are addressing the cost-control issue head on by self-funding their health benefits. Some are placing pressure on their insurance carriers to redefine benefits packages to increase employee cost sharing and to increase the incentives for use of such things as second opinions and outpatient, rather than inpatient, surgery. Others have negotiated with PPO's and HMO's or they have built and staffed their own facilities.

Consumers also have become more involved in the use and financing of health care. Part of this is because of increased coinsurance and deductibles in insurance packages; part is because of the general rise in consumer activism; and part is because patients are better educated regarding the implications of and alternatives to various medical procedures.

Effects of changes in health care delivery and financing

The effects of changes in the traditional health care delivery system and changes in the methods of financing have rippled throughout the industry.

The institution of the Medicare prospective payment system (PPS) may have had an information effect on physician practice patterns. Researchers have contended that variations in physician practice patterns cause wide variations in lengths of stay. Variations translate into significant differences in the cost of treating similar illnesses. Local area studies show that physicians will alter practices once information becomes available showing that shorter hospitalizations are used by their colleagues without adverse effects on their patients' health (Wennberg, 1984).

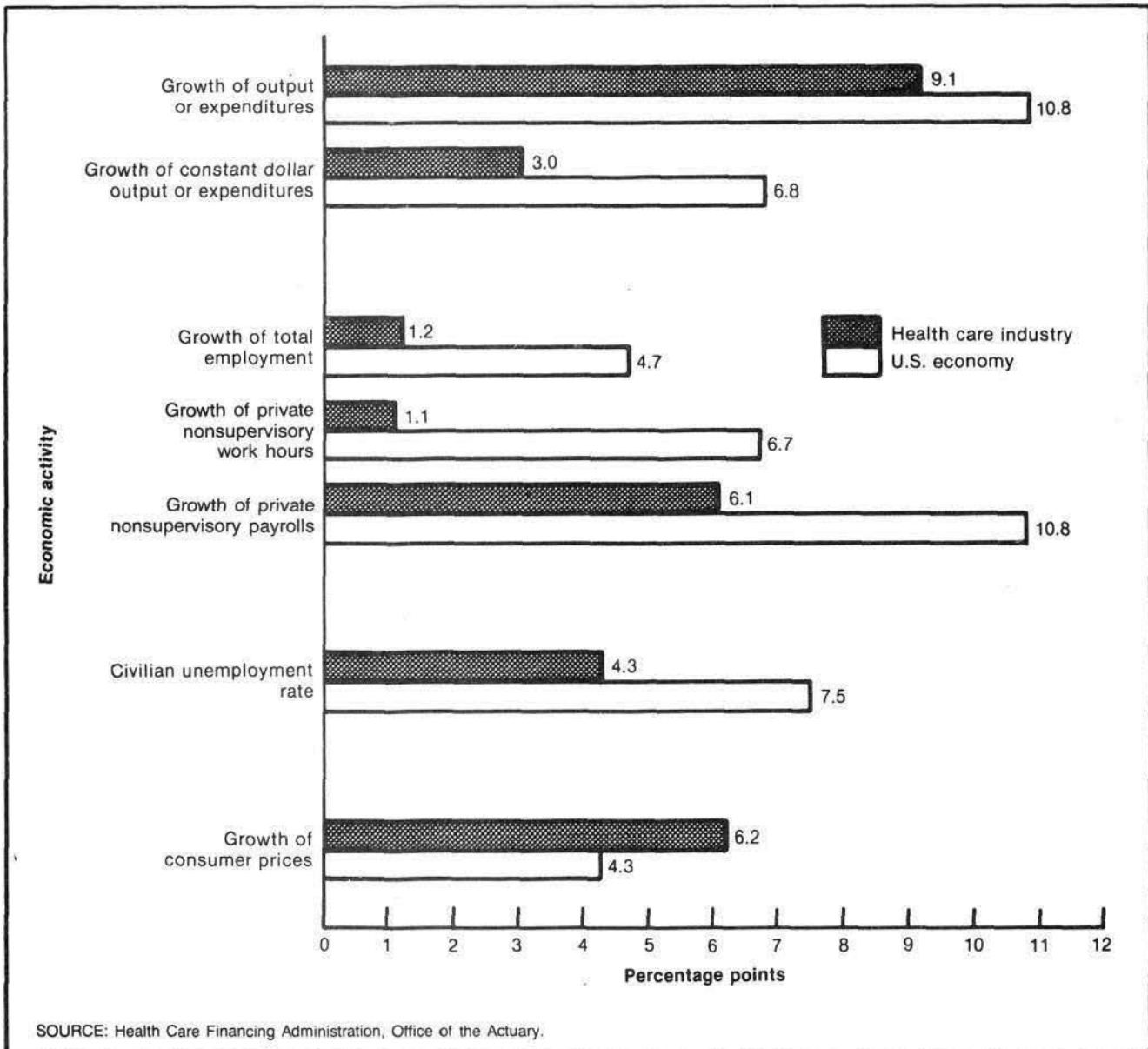
PPS may have provided the necessary information to allow admitting physicians to identify practice patterns (specifically hospital length of stay) that exceed national norms. In light of this comparison, practice patterns were altered, resulting in shorter hospitalizations. Although PPS applies primarily to the aged, drops in lengths of stay are apparent for the population under 65 years of age as well. From 1975 to 1983, lengths of hospital stays for those 65 years of age or older declined at an average annual rate of 1.8 percent; in 1984, the lengths of hospital stays declined 7.5 percent. For the population under 65 years of age, lengths of stays dropped at an average annual rate of .8 percent between 1975 and 1983; in 1984, it dropped 3.5 percent (Hospital Data Center, 1985).

Reimbursement change resulting in the reduction of hospital utilization and in the increased competition for patients has forced hospitals to specialize in delivery of certain services and to diversify their role in the provision of care. Hospitals are creating freestanding outpatient clinics and developing home health care service departments. Some find it advantageous to purchase other links in the health service production chain, such as hospital supply companies or nursing homes. Other strategies include the specialization of services by an individual hospital in a market area so that the purchase of efficient and effective technology can be cost justified.

Increasingly, hospitals are turning to professional managers to direct their operations as businesses. Extensive cost savings are being realized through such basic operations as centralized, coordinated purchasing, either within a single hospital or among a group of facilities. Marketing and advertising are becoming important aspects of a hospital's business (Glenn, 1985b). Each hospital is attempting to differentiate its product from its competitors in an effort to attract patients. For instance, one hospital in Washington, D.C., discovered a market for high-cost, luxury hospital suites, complete with penthouse balconies and gourmet meals available 24 hours a day (Washington Hospital Center, no date).

Figure 4

Measures of economic activity in the health care industry and in the United States as a whole: 1984



Changes in the delivery of care and the sources of financing have effected shifts in power within the health industry. Third parties have assumed a more active role in determining which services will be consumed and how many. Private health insurers are instituting mandatory second and third opinions and paying fully for these evaluations. Medicare's PPS encouraged shorter lengths of stay per admission. Scrutiny of hospital admissions by Medicare peer review organizations (PRO's) will probably contribute to slower growth of admissions in the future.

In addition to the more active role of third parties, the power structure within the hospital setting is changing. Hospitals have been exerting influence on admitting physicians to curb excess use of services. Physicians will no longer be an asset to a hospital if patients cannot be handled economically. In addition,

physician influence in hospital decisionmaking is being tempered by the authority of nonmedical hospital managers.

Health industry indicators

The changes mentioned above and the effects they created are reflected in data on the health care sector (Figure 4). Growth of input and output measures slowed, and the gap in price inflation narrowed. However, the basic strength of the industry remains.

Growth of input measures has slowed. Total employment decelerated in 1983 and again in 1984, rising 1.2 percent from the 1983 levels. Work hours and average weekly earnings also decelerated, growing 1.1 percent and 6.1 percent, respectively one-half the historic rates.

Output growth slowed as well. After adjustment for price inflation, personal health care expenditures grew 2.1 percent in 1984, well below the 4.9 percent average between 1965 and 1983.

Price inflation for medical care is still greater than that for other consumer prices. The Consumer Price Index for medical care increased 6.2 percent in 1984, compared with 4.3 percent for all consumer goods and services. This difference is not unexpected. Economic theory suggests that service industries are more prone to output price inflation than manufacturing industries are (Baumol, 1967). However, as evidence of the pressure on the health industry, the relative gap between the two inflation rates was reduced from a factor of 2 in 1982 and 1983 to about 1½ in 1984.

Despite its slower growth, the industry is still strong. With over 7.4 million employees in 1984, it was among the largest in the Nation in terms of employment or earnings. The unemployment rate for health workers was almost one-half the rate for workers in all industries.

Goods and services purchased in 1984

“National health expenditures” are defined to include all spending for health care of individuals, the administrative costs of nonprofit and Government health programs, the net cost to enrollees of private health insurance, Government expenditures through public health programs, noncommercial health research, and construction of medical facilities. The definition excludes spending for environmental improvement and for subsidies and grants for health professionals’ education, categories that often are included with health in Federal budget documents.

National health expenditures are divided into two categories: health services and supplies (expenditures related to current health) and research and construction of medical facilities (expenditures related to future health) (Table 2). Health services and supplies, in turn, consist of personal health care (the direct provision of care), program administration and the net cost of insurance, and Government public health activities.

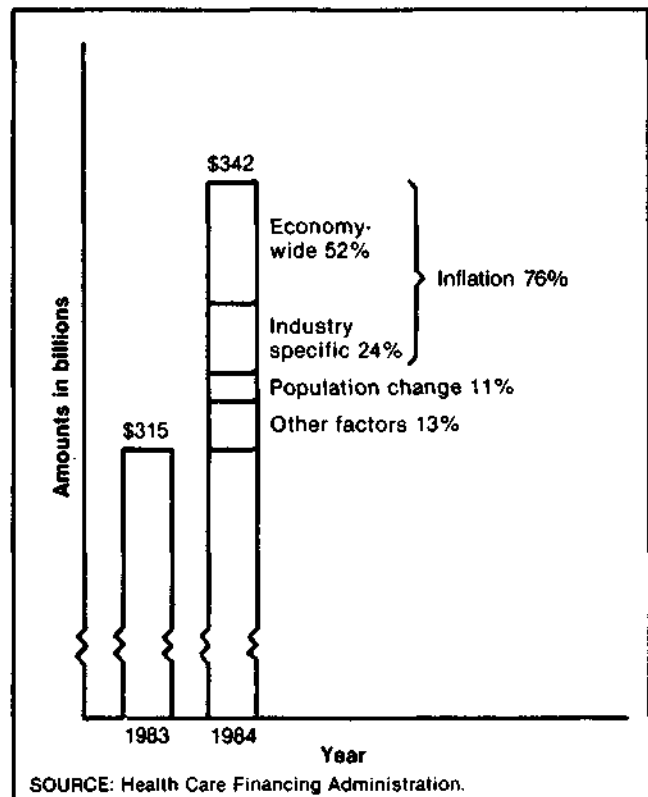
Personal health care

A total of \$342 billion was spent for personal health care in 1984, up 8.5 percent from the amount spent in 1983. In 1984, \$1,394 was spent per capita for personal health care—an increase of 7.5 percent from the 1983 level.

Growth in personal health care is at the lowest level recorded since 1965—the first period covered in the current National Health Accounts. Reduced growth can be attributed to lower price inflation in the general economy and in the medical sector and to changes in third-party reimbursement policy which have altered utilization patterns.

Although price inflation has been moderating, it still accounts for most of the growth in spending for

Figure 5
Factors in the increase of personal health care expenditures: 1983-84



personal health care. In Figure 5, 76 percent of the increase in spending between 1983 and 1984 was the result of price inflation; another 11 percent was the result of population growth. The remainder was the result of the interaction of a variety of influences, among them the aging of the population, changes in consumption per capita, and changes in the types of services provided.

Third parties account for almost three-quarters of the spending for personal health care (Table 3). Private health insurance benefits amounted to \$107 billion in 1984, and other private third-party benefits (philanthropy and industrial health programs) amounted to \$4 billion. The Federal Government spent \$101 billion, most of it through Medicare and Medicaid, and State and local governments spent \$34 billion, about one-half of which was channeled through Medicaid.

Personal health care consists of a number of different goods and services.

Physicians’ services

Expenditures for physicians’ services reached \$75 billion in 1984—an increase of 10.2 percent from the previous year. This spending accounted for 22 percent of personal health care expenditures.

Third parties play a large role in the financing of physicians’ services. The Federal Government financed 22 percent, and private health insurance

Table 2
National health expenditures, by type of expenditure: Selected calendar years 1929-84

Type of expenditure	1984	1983	1982	1980	1975	1970	1967	1965	1960	1950	1940	1929
	Amount in billions											
National health expenditures	\$387.4	\$355.1	\$321.2	\$247.5	\$132.7	\$75.0	\$51.5	\$41.9	\$26.9	\$12.7	\$4.0	\$3.6
Health services and supplies	371.6	339.8	307.0	235.6	124.3	69.6	47.6	38.4	25.2	11.7	3.9	3.4
Personal health care	341.8	315.2	284.9	219.1	117.1	65.4	44.5	35.9	23.7	10.9	3.5	3.2
Hospital care	157.9	148.8	134.7	101.3	52.4	28.0	18.4	14.0	9.1	3.9	1.0	.7
Physicians' services	75.4	68.4	61.8	46.8	24.9	14.3	10.1	8.5	5.7	2.7	1.0	1.0
Dentists' services	25.1	21.8	19.5	15.4	8.2	4.7	3.4	2.8	2.0	1.0	.4	.5
Other professional services	8.8	8.0	7.1	5.6	2.6	1.6	1.3	1.0	.9	.4	.2	.3
Drugs and medical sundries	25.8	23.6	21.8	18.5	11.9	8.0	5.8	5.2	3.7	1.7	.6	.6
Eyeglasses and appliances	7.4	6.5	5.6	5.1	3.2	1.9	1.3	1.2	.8	.5	.2	.1
Nursing home care	32.0	29.4	26.9	20.4	10.1	4.7	2.8	2.1	.5	.2	(¹)	(¹)
Other personal health care	9.4	8.6	7.6	5.9	3.8	2.1	1.5	1.1	1.1	.5	.1	.1
Program administration and net cost of health insurance	19.1	14.5	12.8	9.2	4.0	2.8	2.2	1.7	1.1	.5	.2	.1
Government public health activities	10.7	10.1	9.3	7.2	3.2	1.4	.9	.8	.4	.4	.2	.1
Research and construction of medical facilities	15.8	15.3	14.2	11.9	8.4	5.4	3.8	3.5	1.7	1.0	.1	.2
Noncommercial research ²	6.8	6.2	5.9	5.4	3.3	2.0	1.8	1.5	.7	.1	(¹)	(¹)
Construction	9.0	9.1	8.3	6.5	5.1	3.4	2.1	2.0	1.0	.8	.1	.2

¹ Less than \$50 million.

² Research and development expenditures of drug companies and other manufacturers and providers of medical equipment and supplies are excluded from "research expenditures," but they are included in the expenditure class in which the product falls.

SOURCE: Health Care Financing Administration, Office of the Actuary.

Table 3
National health expenditures, by type of expenditure and source of funds: Calendar years 1982-84

Type of expenditure	All sources of funds	All private funds	Private Consumer				All public funds		
			Total	Direct	Insurance	Other ¹	Total	Federal	State and local
Amount in billions									
1984 National health expenditures	\$387.4	\$227.1	\$215.9	\$95.4	\$120.5	\$11.2	\$160.3	\$111.9	\$48.3
Health services and supplies	371.6	220.3	215.9	95.4	120.5	4.4	151.2	105.4	45.9
Personal health care	341.8	206.5	202.5	95.4	107.2	3.9	135.4	101.1	34.3
Hospital care	157.9	73.5	71.9	13.7	58.2	1.6	84.3	65.6	18.7
Physicians' services	75.4	54.5	54.4	21.0	33.5	(2)	20.9	16.9	4.0
Dentists' services	25.1	24.5	24.5	16.3	8.3	—	.5	.3	.3
Other professional services	8.8	6.0	5.9	3.5	2.4	.1	2.8	2.2	.6
Drugs and medical sundries	25.8	23.5	23.5	19.7	3.8	—	2.4	1.2	1.2
Eyeglasses and appliances	7.4	6.3	6.3	5.5	.8	—	1.2	1.1	.1
Nursing home care	32.0	16.3	16.1	15.8	.3	.2	15.7	8.8	6.9
Other personal health care	9.4	2.0	—	—	—	2.0	7.5	5.1	2.4
Program administration and net cost of health insurance	19.1	13.9	13.4	—	13.4	.5	5.2	2.9	2.3
Government public health activities	10.7	—	—	—	—	—	10.7	1.4	9.3
Research and construction of medical facilities	15.8	6.7	—	—	—	6.7	9.0	6.6	2.5
Noncommercial research ²	6.8	.4	—	—	—	.4	6.4	5.8	.6
Construction	9.0	6.4	—	—	—	6.4	2.6	.7	1.9
1983 National health expenditures	355.1	207.0	196.0	86.4	109.7	11.0	148.1	102.7	45.4
Health services and supplies	339.8	200.2	196.0	86.4	109.7	4.2	139.6	96.8	42.8
Personal health care	315.2	190.4	186.7	86.4	100.3	3.7	124.8	92.9	31.9
Hospital care	148.8	71.0	69.4	12.8	56.6	1.6	77.8	60.6	17.2
Physicians' service	68.4	49.1	49.1	18.9	30.1	(2)	19.3	15.6	3.8
Dentists' services	21.8	21.2	21.2	13.9	7.3	—	.6	.3	.3
Other professional services	8.0	5.6	5.6	3.6	2.0	.1	2.4	1.8	.5
Drugs and medical sundries	23.6	21.5	21.5	18.2	3.3	—	2.1	1.1	1.1
Eyeglasses and appliances	6.5	5.5	5.5	4.8	.7	—	1.0	.9	.1
Nursing home care	29.4	14.6	14.4	14.2	.2	.2	14.8	8.1	6.7
Other personal health care	8.6	1.8	—	—	—	1.8	6.7	4.5	2.2
Program administration and net cost of health insurance	14.5	9.8	9.4	—	9.4	.5	4.7	2.7	2.0
Government public health activities	10.1	—	—	—	—	—	10.1	1.3	8.8
Research and construction of medical facilities	15.3	6.8	—	—	—	6.8	8.5	5.9	2.6
Noncommercial research ²	6.2	.4	—	—	—	.4	5.8	5.2	.6
Construction	9.1	6.5	—	—	—	6.5	2.7	.7	2.0

Table 3—Continued
National health expenditures, by type of expenditure and source of funds: Calendar years 1982-84

Type of expenditure	All sources of funds	All private funds	Private				All public funds		State and local
			Consumer			Other ¹	Total	Federal	
			Total	Direct	Insurance				
Amount in billions									
1982 National health expenditures	\$321.2	\$186.1	\$176.2	\$77.2	\$99.0	\$9.9	\$135.1	\$93.2	\$41.9
Health services and supplies	307.0	180.0	176.2	77.2	99.0	3.8	127.0	87.6	39.4
Personal health care	284.9	171.5	168.2	77.2	91.0	3.4	113.4	83.9	29.5
Hospital care	134.7	63.5	62.1	10.3	51.8	1.4	71.2	55.4	15.8
Physicians' services	61.8	44.8	44.8	17.7	27.1	⁽³⁾	16.9	13.4	3.6
Dentists' services	19.5	18.9	18.9	12.4	6.5	—	.6	.3	.3
Other professional services	7.1	5.1	5.0	3.3	1.8	.1	2.0	1.5	.5
Drugs and medical sundries	21.8	19.9	19.9	16.9	2.9	—	2.0	1.0	1.0
Eyeglasses and appliances	5.6	4.7	4.7	4.2	.6	—	.8	.7	.1
Nursing home care	26.9	12.9	12.7	12.4	.3	.2	14.0	7.7	6.4
Other personal health care	7.6	1.7	—	—	—	1.7	5.9	4.0	1.9
Program administration and net cost of health insurance	12.8	8.4	8.0	—	8.0	.4	4.3	2.4	1.9
Government public health activities	9.3	—	—	—	—	—	9.3	1.2	8.1
Research and construction of medical facilities	14.2	6.1	—	—	—	6.1	8.1	5.6	2.5
Noncommercial research ²	5.9	.3	—	—	—	.3	5.5	5.0	.6
Construction	8.3	5.8	—	—	—	5.8	2.5	.6	1.9

¹ Spending by philanthropic organizations, industrial inplant health services, and privately financed construction.

² Research and development expenditures of drug companies and other manufacturers and providers of medical equipment and supplies are excluded from "research expenditures," but they are included in the expenditure class in which the product falls.

³ Less than \$50 million.

SOURCE: Health Care Financing Administration, Office of the Actuary.

benefits financed 44 percent of the total. State and local governments paid for 5 percent of the total; and the balance, some 28 percent, was paid by patients or their families.

Price inflation was a significant contributor to the growth of expenditures for physicians' services. Measured by the Consumer Price Index (CPI), physicians' fees rose 7.0 percent in 1984, compared with an increase of 4.3 percent in the CPI for all items.

Physicians are major players in determining the size and shape of the health care sector. In determining who will be hospitalized, what type and quantity of services the hospital patient will receive, and what drugs will be prescribed, physicians' influence extends far beyond the 22 percent share of spending devoted to their services.

Traditional relationships within the medical sector are in transition, and the physician sector is at the forefront of this change.

The supply of physicians is increasing faster than the population, leading to increased competition for patients and for hospital practice privileges. More and more young physicians are opting for employment in alternative care sites such as health maintenance organizations and ambulatory care centers, rather than opening a solo practice. Established physicians are creating physician groups to share overhead costs. Sharing costs permit practices to purchase the latest technology, which can keep a practice attractive to patients. Another strategy used by physicians to increase their patient load is to become part of preferred provider organizations or primary care networks. By negotiating fee reductions with employers and insurers, physicians access a captive supply of patients who could choose to use their services.

The changing relationship between physicians and hospitals is precipitated by changing third-party reimbursement policy. Hospitals must be operated as businesses since their financial viability is at stake. Increasingly, professional managers are replacing physicians as administrators and decisionmakers in hospitals. Physicians are beginning to see hospitals as competitors for patients. Hospitals are promoting their services by expanding their organized outpatient departments and opening clinics and ambulatory care centers. They are restructuring their emergency room fee schedules to make charges for nonemergency care more competitive with physician office visit fees.

The changing age composition of the population will necessitate changes in physician specialization. Low birth rates limit the need for growth of pediatric and obstetric specialists. Conversely, the growing proportion of elderly persons will increase demand for geriatric and other specialists whose practices serve large numbers of individuals over the age of 65 years.

Competition from nonphysician personnel—physician assistants, nurse practitioners, and other health professionals—is growing. As costs increasingly become a factor in the provision of care,

demand for these allied health professionals will grow (American Medical Association, 1985).

In the National Health Accounts, expenditures for physicians' services encompass the cost of all services and supplies provided in physicians' offices, the cost for services of private practitioners in hospitals and other institutions, and the cost of diagnostic work performed in independent clinical laboratories. The salaries of staff physicians are counted with expenditures for the services of the employing institution.

Hospital care

Expenditures for hospital care services in 1984 reached \$158 billion, representing 46 percent of all personal health care spending. Expenditures grew 6.1 percent over the 1983 level, the slowest increase experienced in the last 19 years.

Declines in utilization of hospital services impact on the growth in hospital expenditures. Factors other than reduced admissions contributing to increased community hospital expenditures can be determined by examining the growth in revenues per admission as reported in the American Hospital Association's Panel Survey. Economy-wide inflation, as measured by the gross national product fixed-weight price index, accounted for 44 percent of the increase; 16 percent of the growth can be attributed to inflation in hospital input prices in excess of economy-wide inflation as measured by the Health Care Financing Administration's National Hospital Input Price Index (Freeland, Anderson, and Schendler, 1979). The remaining 40 percent of the increase in hospital spending results from the interaction of a variety of factors, including changes in length of stay, changes in the mix of services provided per hospitalization (outputs), and changes in the mix of goods and services used to provide those hospital services (inputs).

The proportion of hospital expenditures financed by public programs continued to increase in 1984, reaching 53 percent. The Federal Medicare program alone paid for 28 percent of all hospital services, up from 27 percent in 1983. Medicaid financed another 9 percent.

Consumers paid for 37 percent of hospital care through their coverage with private health insurance. They financed another 9 percent by directly paying for services.

In the National Health Accounts, hospital care includes all inpatient and outpatient care in public and private hospitals and all services and supplies provided by hospitals. Except for services of hospital staff physicians, expenditures for physician care provided in hospitals are included in the physician category described previously.

Dramatic changes in the hospital industry that began to take place in 1983 are being confirmed in 1984. Growth in input prices as measured by the Health Care Financing Administration's Input Price Index (Freeland, Anderson, and Schendler, 1979)

dropped to 5.9 percent in 1984, well below the double-digit growth experienced between 1979 and 1982. Data on use of community hospital services in 1984 provide further evidence of those changes (Hospital Data Center, 1985): Admissions declined 1.4 million (down 3.7 percent); inpatient days were off 22.7 million (down 8.6 percent). Length of stay declined to 6.7 days—the lowest level ever recorded. To some extent, decreased inpatient utilization was offset by overall outpatient hospital visits, increases that were in line with historical trends. Community hospitals responded to decreased inpatient utilization in 1984 by reducing the number of beds (a 1.1 percent decline) and reducing staff (a 2.3 percent decline in full-time equivalent personnel).

Community hospitals made record profits in 1984. Despite the slowest growth of revenue ever recorded by the American Hospital Association (6 percent), profits were up 27.6 percent from 1983, reaching \$8.3 billion. Some of the increase in the operating margin may be attributable to diagnosis-related group (DRG) prices that may have been set too high (General Accounting Office, 1985b). Part of this growth is attributed to a rapid response to the prospective payment system, as hospitals moved to eliminate ineffective practices. In that sense, high profit rates may be a short-run phenomenon. However, the trend over the past 10 years has been that operating margins have increased each year.

Reimbursement changes have forced hospitals to diversify their role in the provision of care. Reduced occupancy levels make hospitals more conscious of the places where patients enter the health care system. These points of entry are becoming essential links in attracting patients and directing them to specific hospital facilities. Strategies employed by hospitals to increase patient flow include offering office space to admitting physicians at attractive rates; restructuring emergency room fees for nonemergency cases to make services more competitive with those performed in a physician's office; opening ambulatory clinics in shopping centers and metropolitan locations; and conducting marketing surveys to determine services which could be offered to attract patients (Parker, 1985).

Beyond seeking sources for additional patients, hospitals are being restructured to deal with earlier discharging of patients. Currently, hospitals are reimbursed for services to Medicare patients under the DRG system. In order to keep expenses down, hospitals must discharge Medicare patients as quickly as possible. Hospitals are establishing relationships with, or directly purchasing, nursing homes to insure their ability to discharge patients as soon as it is medically indicated. Protracted hospital stays by Medicare patients cut into the hospital's operating margin.

Frequently, discharged patients need less intense care than that which a nursing home provides, but they still require assistance beyond that which is available at home. To meet this need, hospitals are expanding into the home health service business.

Nursing home care

In 1984, \$32 billion was spent for nursing home care—an increase of 8.9 percent from the previous year. Such care amounted to 8 percent of total health spending and to 9 percent of personal health care expenditures.

In the National Health Accounts, nursing home services are those provided in skilled nursing facilities, in intermediate care facilities, and in personal care homes that provide nursing care. In addition, a majority of the care for mentally retarded Medicaid recipients provided in intermediate care facilities for the mentally retarded (ICFMR) is included as nursing home care. Nursing-type care provided in hospitals (including ICFMR care) is included with expenditures for hospital care.

Part of the growth in spending for nursing home care over the last decade has been the result of rapid expansion in intermediate care facilities for the mentally retarded, a Medicaid benefit first offered in 1973. Currently, about \$2.6 billion (60 percent of the total expenditures for ICFMR) is spent in nursing homes. Despite its relatively small size, growth in spending for ICFMR raised the growth rate of total nursing home spending in every year through 1981. This rate of growth decelerated in 1982 and slowed to 8.1 percent in 1984, slightly lowering the growth rate in aggregate spending for nursing home care.

Growth in spending for nursing home care other than ICFMR also slowed considerably in recent years. Part of this slowdown is the result of a deceleration of prices paid by nursing homes: Health Care Financing Administration's National Nursing Home Input Price Index rose 4.7 percent in 1984, the smallest increase since this measure was developed. One-half of the increase between 1983 and 1984 in expenditures for nursing home care other than ICFMR was attributable to general inflation measured by the gross national product fixed-weight price index; 5 percent was the result of inflation specific to the nursing home industry. The aged population increased 2 percent in 1984; that increase accounted for one-quarter of the growth in nursing home spending. The residual can be accounted for by changes in the amounts and mix of nursing home goods and services provided.

The share of nursing home care financed by public programs has declined since 1979, from 56 percent to 49 percent. Almost all of that decline was in Medicaid and Medicare shares. Reduced utilization of nursing home care by Medicaid and Medicare patients has been occurring. The explanation for this reduction is twofold. First, the shortage of nursing home beds in some areas allows nursing homes to selectively admit patients (Feder and Scanlon, 1981). Higher paying private patients will be admitted before Medicaid or Medicare patients. Second, the shortage of beds may be induced in some States in order to minimize Medicaid expenditures. Tactics used by States include tightening certificate-of-need requirements and keeping reimbursement rates low

(Weissert, et al., 1984). Potential investors in the nursing home business may be discouraged by the low profitability of the industry, because of these reimbursement policies.

However, as a result of public program policies, structural changes within the nursing home industry may be occurring. Hospitals, under pressure from Medicare's predetermined per case payment system, are striving to control costs and utilization. There is anecdotal evidence that reductions achieved in hospital length of stay for Medicare patients increased demand for post-hospital nursing home care and/or the intensity of services these patients require (Chelimsky, 1985). To guarantee availability of post-hospital care, hospitals have responded by entering into reserve bed agreements with nursing homes, i.e., an agreement to pay a nursing home to reserve a specific number of beds whether or not they are used by the hospital's discharged patients; purchasing or building nursing facilities; or by converting excess acute care beds to in-house, long-term care units.

Drugs and medical sundries

Twenty-six billion dollars was spent for drugs and medical sundries in 1984, 9.4 percent more than in 1983. This figure reflects the retail purchase of prescription and nonprescription drugs and medical sundries. (The dollar value of drugs purchased and dispensed in hospitals, nursing homes, practitioners' offices, and so on is included with expenditures for the dispensers' services).

Nine-tenths of the 1984 spending for drugs and sundries came from private funds. Most of that, in turn, came directly from consumers: \$20 billion, or three-quarters of total expenditures in the category. Private health insurance benefits amounted to \$4 billion; and Federal, State, and local governments each paid a little over \$1 billion, mostly through Medicaid. There has been very little change in the public or private distribution of expenditures since 1965. However, there has been a rapid expansion in the private health insurance share and a corresponding decline in the direct-payment share of spending, particularly since 1977.

"Real" growth in the purchases of drugs and sundries has been slower than that for other health care goods and services in the 1965 to 1984 period. Price-adjusted growth for drugs and sundries averaged 5.8 percent annually between 1965 and 1978, compared with an average price-adjusted growth of 5.5 percent for all personal health care. However, all of the growth in spending for drugs and medical sundries since 1978 has been the result of price inflation. Some of the recent slowdown in growth is attributable to changes in physician and patient perceptions of drug use, with particular drops in the prescription of psychotherapeutic drugs (Hilts, 1982).

Other personal health care goods and services

Expenditures for all other types of personal health care goods and services were \$51 billion in 1984—an increase of 12.9 percent. That spending amounted to 15 percent of all personal health care expenditures. Almost equal proportions of this group of services were financed through Government programs (24 percent) and private health insurance (23 percent) in 1984; consumers paid for 50 percent directly. Almost one-half of the expenditures in this category were for dentists' services, but the category also includes spending for services of other health professionals (including most home health agencies), for eyeglasses and orthopedic appliances, and for other health services (including the provision of care in industrial settings and school health). Growth of this composite component was influenced significantly by the growth of spending for dentists' services, which grew 15 percent over the 1983 level.

Spending for dental services reached \$25 billion in 1984. Price inflation for dental services coupled with strong demand for services by consumers (evidenced by continued steady growth in employment and expansion in the number of hours worked each week in dental offices) has produced increases in dental expenditures of 15.0 percent in 1984. Use of dental services fluctuates with the business cycle, because the consumer directly paid for a large portion of the services. Since 1980, however, private health insurance has been financing one-third of all dental services, somewhat dampening the effects of the business cycle.

Other health services and supplies

The cost of operating third-party programs in 1984 rose 31.2 percent, to \$19 billion. This estimate includes \$5.2 billion in administrative expenses for those public programs that identified administrative expenses. It also includes a small amount estimated to be the fundraising and administrative expenses of philanthropic organizations. The largest part of the component is the net cost of private health insurance—i.e., the difference between earned premiums and incurred claims. Estimated at \$13 billion for 1984, net cost reflects administrative expenses; additions to loss reserves; and profits or losses of Blue Cross and Blue Shield plans, mutual and stock carriers, and prepaid and self-insured health plans.

Public health activities of various levels of Government amounted to \$11 billion in 1984. Public health activities are those functions carried out by Federal, State, and local governments to support community health, in contrast to care delivered to individuals. Federal expenditures of \$1.4 billion

included the services of the Centers for Disease Control and the Food and Drug Administration, as well as grants to States.

Other national health expenditures

National health expenditures devoted to nonprofit research and to construction of medical facilities were \$16 billion in 1984, an amount equal to 4 percent of total health spending.

Expenditures for noncommercial health care research and development were \$6.8 billion in 1984. The Federal Government financed by far the largest amount for research, with funds totalling \$5.8 billion, most of which was spent by the National Institutes of Health. Expenditures by State and local governments, exclusive of Federal grants, were \$616 million; private philanthropy funded an even smaller amount.

The \$6.8 billion in spending for research in the National Health Accounts excludes research performed by drug companies and by other manufacturers and suppliers of health care goods and services, estimated to be \$4.5 billion in 1984. As this type of research is treated as a business expense and is financed through sales of goods or services, its value is included in personal health care expenditures; to include it again in research would result in double counting.

Of the \$9.0 billion spent on construction of medical facilities in 1984, 29 percent was funded from public sources. Grants from philanthropic organizations funded 5 percent, and the remainder came from internal funds or from the private capital market. This estimate does not include spending for capital equipment, because there is no source of data to yield a reliable, consistent timeseries of data on spending for equipment.

Financing health care

Third-party financing

Unlike other goods or services for which the consumer pays the provider directly, health care payments often are handled by a financial agent—a “third party.” The details of the payment method may vary: The consumer may pay the provider and apply for reimbursement from the third party, or the provider may bill the third party directly, or the provider may be employed by the third party (as in the case of U.S. Department of Defense hospitals or industrial inplant services, for example). In the case of Medicare, institutional providers bill “fiscal intermediaries,” private health insurers acting as agents for the Federal Government, and physicians may bill either the fiscal intermediary or the patient.

The existing third-party coverage of health care has contributed to a healthier population, but it has exacted a price as well. Insurance has increased access to care, resulting in treatment of patients who

otherwise would have been priced out of the medical care market. However, the historical structure of insurance benefits encouraged use of inpatient rather than outpatient facilities, and encouraged overuse of tests and procedures rather than underuse. The financial incentives embedded in traditional reimbursement structures have encouraged increased use of medical care, but not at the lowest cost.

Private health insurance

Blue Cross and Blue Shield plans, commercial insurance companies, and prepaid and self-insured plans incurred claims estimated at \$107 billion in 1984, an amount equal to 31 percent of personal health care expenditures. These benefit payments were 6.9 percent higher than in 1983. Insurers earned an estimated \$121 billion in premiums, 56 percent of all nonpublic spending for health, resulting in a net cost to enrollees of \$13 billion.

The size of the private health insurance industry has been growing, induced by the perceived desire for its services and by the preferential tax treatment of premiums. By 1984, 52 percent of private expenditures for personal health care—the amount not covered by public programs—was reimbursed by private insurance. In 1984, approximately three-quarters of the U.S. population was covered by private health insurance for hospital care, compared with one-half in 1950. The relatively rapid rate of growth of insurance premiums—14 percent per year since 1950, compared with an increase of 11 percent in total personal health care expenditures—reflects the desire for the prepayment and risk-sharing offered by private health insurance and the subsidy that tax treatment of health premiums afford.

Self-insured plans have been growing since the latter half of the seventies. This growth has been stimulated by tax and other financial advantages to employers. Insurance companies have also contributed to this growth by providing administrative and stop-loss services that aid and protect self-insured plans. The prepaid plans category, comprised of health maintenance organizations and single-service plans, has also grown significantly in recent years, but it still remains a small part of overall insurance.

The advent of Medicare and Medicaid slowed the growth of the private health insurance share of personal health care expenditures. Private health insurance's share of spending doubled between 1950 and 1965, reaching 24 percent (Table 4). Since 1967, this share has grown gradually, increasing to 31 percent in 1984.

A large proportion of spending for hospital care and physicians' services is paid by private health insurance. In 1960, private insurance paid for 36 percent of hospital care, the first type of service to be covered extensively; that share reached 41 percent by 1965 (Table 5). When Medicare and Medicaid were established in 1966, hospital care spending increased dramatically, and the portion paid by private

Table 4

**Aggregate and per capita amounts and percent distribution of personal health care expenditures,
by source of funds: Selected calendar years 1929-84**

Year	Total	Direct patient payments	Third parties			Government		
			All third parties	Private health insurance	Other private funds	Total	Federal	State and local
Amount in billions								
1929	\$3.2	\$2.8	\$.4	(¹)	\$.1	\$.3	\$.1	\$.2
1935	2.7	2.2	.5	(¹)	.1	.4	.1	.3
1940	3.5	2.9	.7	(¹)	.1	.6	.1	.4
1950	10.9	7.1	3.8	\$.9	.3	2.4	1.1	1.3
1955	15.7	9.1	6.6	2.5	.4	3.6	1.6	2.0
1960	23.7	13.0	10.7	5.0	.5	5.2	2.2	3.0
1965	35.9	18.5	17.3	8.7	.8	7.9	3.6	4.3
1967	44.5	19.0	25.5	9.6	.8	15.1	9.5	5.6
1970	65.4	26.5	38.9	15.3	1.1	22.4	14.5	7.9
1975	117.1	38.1	79.0	31.2	1.6	46.3	31.4	14.9
1980	219.1	62.5	156.7	67.3	2.6	86.7	62.5	24.3
1981	253.4	70.8	182.6	78.8	3.0	100.8	74.2	26.5
1982	284.9	77.2	207.7	91.0	3.4	113.4	83.9	29.5
1983	315.2	86.4	228.8	100.3	3.7	124.8	92.9	31.9
1984	341.8	95.4	246.5	107.2	3.9	135.4	101.1	34.3
Per capita amount								
1929	26	23	3	(¹)	1	2	1	2
1935	21	17	4	(¹)	1	3	1	2
1940	26	21	5	(¹)	1	4	1	3
1950	70	46	24	6	2	16	7	8
1955	93	54	39	15	3	21	10	12
1960	129	71	58	27	3	28	12	16
1965	177	91	85	43	4	39	18	21
1967	214	91	123	46	4	73	46	27
1970	305	124	182	72	5	105	68	37
1975	522	170	352	139	7	206	140	66
1980	929	265	664	285	11	368	265	103
1981	1,063	297	766	331	13	423	311	111
1982	1,184	321	863	378	14	471	349	122
1983	1,297	355	941	413	15	514	382	131
1984	1,394	369	1,005	437	16	552	412	140
Percent distribution								
1929	100.0	88.4	11.6	(¹)	2.6	9.0	2.7	6.3
1935	100.0	82.4	17.6	(¹)	2.8	14.7	3.4	11.3
1940	100.0	81.3	18.7	(¹)	2.6	16.1	4.1	12.0
1950	100.0	65.5	34.5	9.1	2.9	22.4	10.4	12.0
1955	100.0	58.1	41.9	16.1	2.8	23.0	10.5	12.5
1960	100.0	54.9	45.1	21.1	2.3	21.8	9.3	12.5
1965	100.0	51.6	48.4	24.2	2.2	22.0	10.1	11.9
1967	100.0	42.6	57.4	21.6	1.9	33.9	21.3	12.6
1970	100.0	40.5	59.5	23.4	1.7	34.3	22.2	12.1
1975	100.0	32.5	67.5	26.7	1.3	39.5	26.8	12.7
1980	100.0	28.5	71.5	30.7	1.2	39.6	28.5	11.1
1981	100.0	27.9	72.1	31.1	1.2	39.8	29.3	10.5
1982	100.0	27.1	72.9	31.9	1.2	39.8	29.5	10.3
1983	100.0	27.4	72.6	31.8	1.2	39.6	29.5	10.1
1984	100.0	27.9	72.1	31.3	1.2	39.6	29.6	10.0

¹ Included with direct payments; separate data are not available.

NOTE: Based on July 1 social security area population estimates.

SOURCE: Health Care Financing Administration, Office of the Actuary.

Table 5
Aggregate and per capita amounts and percent distribution of expenditures for hospital care,
by source of funds: Selected calendar years 1950-84

Year	Total	Direct patient payments	Third parties			Government		
			All third parties	Private health insurance	Other private funds	Total	Federal	State and local
Amount in billions								
1950	\$3.9	\$1.2	\$2.7	\$.7	\$.1	\$1.9	(¹)	(¹)
1955	5.9	1.3	4.6	1.7	.2	2.7	(¹)	(¹)
1960	9.1	1.8	7.3	3.3	.2	3.8	(¹)	(¹)
1965	14.0	2.3	11.6	5.7	.3	5.6	\$2.4	\$3.1
1967	18.4	1.9	16.4	6.2	.3	10.0	6.3	3.7
1970	28.0	3.2	24.8	9.7	.4	14.7	9.5	5.1
1975	52.4	4.2	48.2	18.8	.6	28.9	20.1	8.8
1980	101.3	7.5	93.8	38.6	1.0	54.2	41.1	13.1
1981	117.9	9.2	108.7	44.7	1.3	62.8	48.6	14.1
1982	134.7	10.3	124.4	51.8	1.4	71.2	55.4	15.8
1983	148.8	12.8	136.1	56.6	1.6	77.8	60.6	17.2
1984	157.9	13.7	144.2	58.2	1.6	84.3	65.6	18.7
Per capita amount								
1950	25	7	17	4	1	12	(¹)	(¹)
1955	35	8	27	10	1	16	(¹)	(¹)
1960	49	10	40	18	1	20	(¹)	(¹)
1965	69	12	57	28	2	27	12	16
1967	89	9	79	30	1	48	30	18
1970	131	15	116	45	2	68	45	24
1975	233	19	215	84	3	129	90	39
1980	429	32	398	163	4	230	174	56
1981	495	38	456	188	5	263	204	59
1982	560	43	517	215	6	296	230	66
1983	612	53	560	233	6	320	249	71
1984	644	56	588	237	7	344	268	76
Percent distribution								
1950	100.0	29.9	70.1	17.7	3.5	48.9	(¹)	(¹)
1955	100.0	22.3	77.7	28.5	3.0	46.2	(¹)	(¹)
1960	100.0	19.8	80.2	36.3	2.5	41.3	(¹)	(¹)
1965	100.0	16.8	83.2	41.1	2.2	39.9	17.4	22.5
1967	100.0	10.6	89.4	33.5	1.6	54.3	34.2	20.1
1970	100.0	11.4	88.6	34.6	1.6	52.4	34.1	18.4
1975	100.0	7.9	92.1	35.9	1.1	55.1	36.4	16.7
1980	100.0	7.4	92.6	38.1	1.0	53.5	40.6	13.0
1981	100.0	7.8	92.2	37.9	1.1	53.2	41.3	12.0
1982	100.0	7.6	92.4	38.5	1.0	52.8	41.1	11.7
1983	100.0	8.6	91.4	38.1	1.1	52.3	40.7	11.6
1984	100.0	8.7	91.3	36.9	1.0	53.4	41.6	11.9

¹ Separate data are not available.

NOTE: Based on July 1 social security area population estimates.

SOURCE: Health Care Financing Administration, Office of the Actuary.

insurance, although growing in dollar terms, dropped to less than 34 percent by 1967. Between 1967 and 1983, the insurance share of hospital expenditures grew to 38 percent, because consumers sought more depth in their hospital coverage. This share dropped slightly in 1984 to 37 percent. Extension of coverage beyond surgical procedures in recent years has led to a higher share of physicians' services being reimbursed by private insurance. This share rose from 31 percent in 1965 to 44 percent in 1984 (Table 6).

Although insurance coverage for other health care services is growing, it has been more limited (Table 7). Dental care is one example. Enrollment for dental benefits rose over 50 percent between 1976 and 1979 to a total of 60.3 million persons (Carroll and Arnett, 1981). Insurance paid for about 33 percent of all dental expenditures in 1984. Vision care benefits,

although not large in dollar terms, also has experienced significant growth in recent years.

Public expenditures

Government programs spent \$135 billion for personal health care services in 1984, an 8.5 percent increase over 1983. Public programs financed almost 40 percent of all personal health care expenditures, including 53 percent of all hospital care, 28 percent of all physician services, and 49 percent of all nursing home care.

Federal expenditures of \$101 billion for personal health care accounted for three-quarters of the public outlay and 30 percent of the total funding for personal health. Sixty-five percent of these Federal funds went toward purchases of hospital care; 17

Table 6

**Aggregate and per capita amounts and percent distribution of expenditures for physicians' services,
by source of funds: Selected calendar years 1950-84**

Year	Total	Direct patient payments	Third parties			Government		
			All third parties	Private health insurance	Other private funds	Total	Federal	State and local
Amount in billions								
1950	\$2.7	\$2.3	\$.5	\$.3		\$.1	(²)	(²)
1955	3.7	2.6	1.1	.9		.2	(²)	(²)
1960	5.7	3.7	2.0	1.6		.4	(²)	(²)
1965	8.5	5.2	3.3	2.7		.6	\$.2	\$.4
1967	10.1	5.1	5.0	3.0		2.0	1.4	.7
1970	14.3	6.5	7.8	4.8		3.0	2.1	.9
1975	24.9	8.5	16.4	9.9	(¹)	6.6	4.7	1.9
1980	46.8	14.3	32.6	19.9		12.6	9.6	3.0
1981	54.8	16.3	38.5	23.4		15.0	11.7	3.3
1982	61.8	17.7	44.1	27.1		16.9	13.4	3.6
1983	68.4	18.9	49.5	30.1		19.3	15.6	3.8
1984	75.4	21.0	54.4	33.5		20.9	16.9	4.0
Per capita amount								
1950	18	15	3	2		1	(²)	(²)
1955	22	15	7	5		1	(²)	(²)
1960	31	20	11	9		2	(²)	(²)
1965	42	26	16	13		3	1	2
1967	49	25	24	14		10	7	3
1970	67	30	37	23	(¹)	14	10	4
1975	111	38	73	44		29	21	8
1980	199	61	138	84		53	41	13
1981	230	68	162	98		63	49	14
1982	257	74	183	113		70	56	15
1983	282	78	204	124		80	64	15
1984	307	86	222	136		85	69	16
Percent distribution								
1950	100.0	83.2	16.8	11.4	.3	5.2	(²)	(²)
1955	100.0	69.8	30.2	23.2	.2	6.7	(²)	(²)
1960	100.0	65.4	34.6	28.0	.2	6.4	(²)	(²)
1965	100.0	61.6	38.4	31.4	.1	6.9	1.8	5.1
1967	100.0	50.3	49.7	29.4	.1	20.2	13.6	6.6
1970	100.0	45.4	54.6	33.6	.1	20.9	14.9	6.0
1975	100.0	34.1	65.9	39.5	.1	26.3	18.8	7.6
1980	100.0	30.5	69.5	42.5	(¹)	26.9	20.6	6.3
1981	100.0	29.7	70.3	42.8	(¹)	27.4	21.4	6.1
1982	100.0	28.7	71.3	43.8	.1	27.4	21.7	5.7
1983	100.0	27.7	72.3	44.0	.1	28.3	22.8	5.5
1984	100.0	27.8	72.2	44.4	.1	27.8	22.4	5.3

¹ Expenditures amount to less than \$50 million, less than \$.50 per capita, or less than .5 percent of the total.

² Separate data are not available.

NOTE: Based on July 1 social security area population estimates.

SOURCE: Health Care Financing Administration, Office of the Actuary.

percent, for physician services; and 9 percent, for nursing home care.

State and local governments financed \$34 billion (10 percent) of personal health care services in 1984. Purchases of hospital services accounted for 55 percent of State and local expenditures; physician services, 12 percent; and nursing home care, 20 percent.

Public funding of personal health care changed dramatically with the advent of the Medicare and Medicaid programs. In 1965, 22 percent of all personal health care spending was publicly financed. Implementation of the Medicare and Medicaid programs rapidly boosted the proportion of public funding of personal health care to 34 percent in 1967. By 1980, public expenditures reached 40 percent and

remained at that level through 1984. Federal funding has accounted for all of the growth in the proportion of public funds financing personal health care; the proportion of State and local funds actually declined over the period 1967-84, from 13 percent to 10 percent.

From 1967 to 1984, the proportion of public funding to hospitals has remained stable (between 52 and 55 percent), with Federal funds (the Medicare program, specifically) accounting for a steadily increasing proportion of those public funds. During the same period, the proportion of public funding for physicians' services grew from 20 percent in 1967 to 28 percent in 1984. Once again, most of that increase can be attributed to the Medicare program.

Public financing of nursing home care grew from 34

Table 7

Aggregate and per capita amounts and percent distribution of personal health care other than hospital care and physicians' services, by source of funds: Selected calendar years 1950-84

Year	Total	Direct patient payments	Third parties					
			All third parties	Private health insurance	Other private funds	Government		
						Total	Federal	State and local
Amount in billions								
1950	\$4.3	\$3.7	\$.6	(¹)	\$.2	\$.4	(²)	(²)
1955	6.1	5.2	.9	(¹)	.2	.6	(²)	(²)
1960	8.9	7.5	1.4	\$.1	.3	1.0	(²)	(²)
1965	13.4	10.9	2.5	.3	.5	1.7	\$1.0	\$.7
1967	16.0	11.9	4.1	.5	.5	3.0	1.8	1.2
1970	23.1	16.8	6.3	.8	.6	4.8	2.9	1.9
1975	39.8	25.4	14.4	2.6	1.0	10.8	6.6	4.2
1980	71.0	40.7	30.3	8.8	1.6	19.9	11.7	8.2
1981	80.7	45.3	35.3	10.6	1.8	23.0	13.9	9.1
1982	88.4	49.2	39.3	12.1	1.9	25.3	15.1	10.1
1983	97.9	54.6	43.3	13.5	2.1	27.6	16.7	10.9
1984	108.6	60.7	47.9	15.5	2.3	30.1	18.6	11.5
Per capita amount								
1950	28	24	4	(¹)	1	3	(²)	(²)
1955	36	31	5	(¹)	1	4	(²)	(²)
1960	48	41	8	1	2	6	3	3
1965	66	54	12	1	2	9	5	3
1967	77	57	20	2	3	15	9	6
1970	108	78	29	4	3	22	13	9
1975	177	113	64	11	4	48	29	19
1980	301	173	128	37	7	84	50	35
1981	338	190	148	44	7	96	58	38
1982	367	204	163	50	8	105	63	42
1983	403	225	178	56	9	114	69	45
1984	443	248	195	63	9	123	76	47
Percent distribution								
1950	100.0	86.2	13.8	(¹)	4.2	9.6	(²)	(²)
1955	100.0	85.6	14.4	(¹)	4.1	10.3	(²)	(²)
1960	100.0	83.9	16.1	1.1	3.3	11.6	(²)	(²)
1965	100.0	81.6	18.4	1.9	3.5	13.0	7.8	5.2
1967	100.0	74.5	25.5	3.1	3.3	19.1	11.3	7.7
1970	100.0	72.9	27.1	3.6	2.8	20.8	12.4	8.3
1975	100.0	63.9	36.1	6.5	2.5	27.1	16.5	10.6
1980	100.0	57.3	42.7	12.4	2.2	28.0	16.5	11.5
1981	100.0	56.2	43.8	13.1	2.2	28.5	17.2	11.3
1982	100.0	55.6	44.4	13.6	2.2	28.6	17.1	11.4
1983	100.0	55.8	44.2	13.8	2.1	28.2	17.1	11.2
1984	100.0	55.9	44.1	14.3	2.1	27.7	17.1	10.6

¹ Included with direct payments; separate data are not available.

² Disaggregated data not available.

NOTE: Based on July 1 social security area population estimates.

SOURCE: Health Care Financing Administration, Office of the Actuary.

percent in 1965 to 49 percent in 1967, peaked at 56 percent in 1975 and 1979, and declined to 49 percent in 1984. Public financing for nursing home care comes predominantly through the Medicaid program, where costs are shared between the Federal, State and local governments.

Public financing for health care services comes from a number of Federal, State, and local programs (Table 8). Some, such as the Veterans' Administration and the U.S. Department of Defense, provide services directly through networks of hospitals, clinics, and nursing homes. The same agencies also pay public and private facilities to provide services. In the Medicare program, the Federal Government acts as an insurer, providing funds for medical care for eligible aged and disabled

people. In other programs, Federal funds flow to State governments, which contribute additional funds. States may administer a medical program, as in the case of Medicaid, or may let funds flow through to local government agencies, as is done with maternal and child health and other community-related grants. States also fund health programs independently in State-run hospitals, or through public assistance vendor payments for individuals not covered by Medicaid.

Medicare and Medicaid

In 1984, Medicare and Medicaid financed 29 cents of every dollar spent for personal health care in the United States. The two programs expended \$99

Table 8
Expenditures for health services and supplies under public programs, by program and type of expenditure: Calendar year 1984

Program area	Personal health care											
	Total	Total	Hospital care	Physicians' services	Dentists' services	Other professional services	Drugs and sundries	Eyeglasses and appliances	Nursing home care	Other personal health care	Administration	Public health activities
	Amount in billions											
Public and private spending	\$371.6	\$341.8	\$157.9	\$75.4	\$25.1	\$8.8	\$25.8	\$7.4	\$32.0	\$9.4	\$19.1	\$10.7
All public programs	151.2	135.4	84.3	20.9	.5	2.8	2.4	1.2	15.7	7.5	5.2	10.7
Federal programs	105.4	101.1	65.6	16.9	.3	2.2	1.2	1.1	8.8	5.1	2.9	1.4
State and local programs	45.9	34.3	18.7	4.0	.3	.6	1.2	.1	6.9	2.4	2.3	9.3
Medicare ¹ (Federal)	64.6	63.1	44.4	14.6	—	1.7	—	1.0	.6	.9	1.6	—
Medicaid ²	38.7	36.7	14.1	3.1	.5	.9	2.1	—	13.9	2.3	2.0	—
Federal	20.9	19.7	7.4	1.7	.2	.5	1.2	—	7.5	1.2	1.2	—
State and local	17.8	17.0	6.7	1.4	.2	.4	.9	—	6.4	1.1	.8	—
Other public assistance programs	2.0	2.0	.9	.2	.0	.0	.1	—	.6	.1	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State and local	2.0	2.0	.9	.2	.0	.0	.1	—	.6	.1	—	—
Veterans medical care	8.3	8.2	6.7	.1	.0	—	.0	.1	.7	.7	.1	—
Defense Department medical care ³	6.9	6.9	5.4	.3	.0	—	.0	—	—	1.1	.1	—
Workers compensation	7.1	5.7	2.9	2.4	—	.2	.1	.1	—	—	1.5	—
Federal	.3	.3	.2	.1	—	.0	.0	.0	—	—	.0	—
State and local	6.8	5.4	2.7	2.3	—	.2	.1	.1	—	—	1.5	—
State and local hospitals ⁴	8.4	8.4	8.4	—	—	—	—	—	—	—	—	—
Other public programs for personal health care ⁵	4.6	4.5	1.6	.3	.0	.1	.0	.1	—	2.4	.1	—
Federal	3.0	3.0	1.5	.2	.0	.0	.0	.0	—	1.1	.0	—
State and local	1.6	1.5	.1	.1	.0	.0	.0	.0	—	1.3	.1	—
Government public health activities	10.7	—	—	—	—	—	—	—	—	—	—	10.7
Federal	1.4	—	—	—	—	—	—	—	—	—	—	1.4
State and local	9.3	—	—	—	—	—	—	—	—	—	—	9.3
Exhibit: Medicare and Medicaid	102.8	99.3	58.5	17.6	.5	2.5	2.1	1.0	14.5	2.7	3.5	—
Public and private spending	339.8	315.2	148.8	68.4	21.8	8.0	23.6	6.5	29.4	8.6	14.5	10.1

Table 8—Continued
Expenditures for health services and supplies under public programs, by program and type of expenditure: Calendar year 1984

Program area	Personal health care											
	Total	Total	Hospital care	Physicians' services	Dentists' services	Other professional services	Drugs and sundries	Eyeglasses and appliances	Nursing home care	Other personal health care	Administration	Public health activities
	Amount in billions											
All public programs	\$139.6	\$124.8	\$77.8	\$19.3	\$6	\$2.4	\$2.1	\$1.0	\$14.8	\$6.7	\$4.7	\$10.1
Federal programs	96.8	92.9	60.6	15.6	.3	1.8	1.1	.9	8.1	4.5	2.7	1.3
State and local programs	42.8	31.9	17.2	3.8	.3	.5	1.1	.1	6.7	2.2	2.0	8.8
Medicare ¹ (Federal)	58.8	57.4	40.5	13.4	—	1.4	—	.8	.5	.8	1.4	—
Medicaid ²	35.7	34.0	12.9	2.9	.5	.7	1.9	—	13.0	2.0	1.7	—
Federal	19.3	18.3	6.9	1.6	.3	.4	1.0	—	7.0	1.0	1.1	—
State and local	16.3	15.7	6.0	1.3	.2	.3	.9	—	6.0	1.0	.6	—
Other public assistance programs	2.0	2.0	.8	.2	.0	.0	.1	—	.7	.1	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State and local	2.0	2.0	.8	.2	.0	.0	.1	—	.7	.1	—	—
Veterans medical care	7.7	7.6	6.3	.1	.0	—	.0	.1	.5	.6	.1	—
Defense Department medical care ³	6.5	6.4	5.2	.2	.0	—	.0	—	—	1.0	.1	—
Workers compensation	6.5	5.2	2.6	2.2	—	.2	.1	.1	—	—	1.3	—
Federal	.3	.3	.2	.1	—	.0	.0	.0	—	—	.0	—
State and local	6.3	4.9	2.5	2.1	—	.1	.1	.1	—	—	1.3	—
State and local hospitals ⁴	7.8	7.8	7.8	—	—	—	—	—	—	—	—	—
Other public programs for personal health care ⁵	4.4	4.3	1.6	.3	.0	.1	.0	.1	—	2.3	.1	—
Federal	2.9	2.9	1.5	.2	.0	.0	.0	.0	—	1.1	.0	—
State and local	1.5	1.5	.1	.1	.0	.0	.0	.0	—	1.2	.1	—
Government public health activities	10.1	—	—	—	—	—	—	—	—	—	—	10.1
Federal	1.3	—	—	—	—	—	—	—	—	—	—	1.3
State and local	8.8	—	—	—	—	—	—	—	—	—	—	8.8
Exhibit: Medicare and Medicaid	94.1	91.0	53.5	16.3	.5	2.1	1.9	.8	13.6	2.4	3.1	—
Public and private spending	307.0	284.9	134.7	61.8	19.5	7.1	21.8	5.6	26.9	7.6	12.8	9.3
All public programs	127.0	113.4	71.2	16.9	.6	2.0	2.0	.8	14.0	5.9	4.3	9.3
Federal programs	87.6	83.9	55.4	13.4	.3	1.5	1.0	.7	7.7	4.0	2.4	1.2
State and local programs	39.4	29.5	15.8	3.6	.3	.5	1.0	.1	6.4	1.9	1.9	8.1

Table 8—Continued
Expenditures for health services and supplies under public programs, by program and type of expenditure: Calendar year 1984

Program area	Personal health care											Public health activities
	Total	Total	Hospital care	Physicians' services	Dentists' services	Other professional services	Drugs and sundries	Eyeglasses and appliances	Nursing home care	Other personal health care	Administration	
	Amount in billions											
Medicare ¹ (Federal)	\$52.4	\$51.1	\$36.8	\$11.4	—	\$1.1	—	\$.6	\$.5	\$.7	\$1.3	—
Medicaid ²	32.9	31.3	11.8	2.8	\$.5	.6	\$1.7	—	12.3	1.6	1.6	—
Federal	18.0	17.0	6.4	1.5	.3	.4	.9	—	6.7	.9	1.0	—
State and local	14.9	14.3	5.4	1.3	.2	.3	.8	—	5.6	.7	.6	—
Other public assistance programs	2.0	2.0	.8	.2	.0	.0	.1	—	.7	.1	—	—
Federal	—	—	—	—	—	—	—	—	—	—	—	—
State and local	2.0	2.0	.8	.2	.0	.0	.1	—	.7	.1	—	—
Veterans medical care	7.1	7.1	5.9	.1	.0	—	.0	.1	.5	.5	.1	—
Defense Department medical care ³	5.7	5.7	4.6	.2	.0	—	.0	—	—	.9	.0	—
Workers compensation	6.1	4.8	2.5	2.0	—	.1	.1	.1	—	—	1.3	—
Federal	.2	.2	.1	.0	—	.0	.0	.0	—	—	.0	—
State and local	5.9	4.6	2.3	2.0	—	.1	.1	.1	—	—	1.3	—
State and local hospitals ⁴	7.2	7.2	7.2	—	—	—	—	—	—	—	—	—
Other public programs for personal health care ⁵	4.4	4.3	1.7	.3	.0	.1	.0	.0	—	2.2	.1	—
Federal	3.0	2.9	1.6	.2	.0	.0	.0	.0	—	1.1	.0	—
State and local	1.4	1.4	.1	.1	.0	.0	.0	.0	—	1.1	.1	—
Government public health activities	9.3	—	—	—	—	—	—	—	—	—	—	\$9.3
Federal	1.2	—	—	—	—	—	—	—	—	—	—	1.2
State and local	8.1	—	—	—	—	—	—	—	—	—	—	8.1
Exhibit: Medicare and Medicaid	84.9	82.0	48.6	14.2	.5	1.8	1.7	.6	12.8	1.8	2.9	—

¹ Total expenditures from trust funds for benefits and administration. Trust fund income includes premium payments paid by or on behalf of enrollees.

² Includes funds paid into the Medicare trust funds by States under "buy-in" agreements to cover premiums for public assistance recipients and for people who are medically indigent.

³ Includes care for retirees and military dependents.

⁴ Expenditures not offset by revenues.

⁵ Includes program spending for maternal and child health; vocational rehabilitation medical payments; temporary disability insurance medical payments; Public Health Service and other Federal hospitals; Indian health services; alcoholism, drug abuse, and mental health; and school health.

NOTE: Amounts shown as ".0" reflect expenditures of less than \$50 million.

SOURCE: Health Care Financing Administration, Office of the Actuary.

billion in benefits. This figure does not include \$490 million treated as a Medicaid expenditure that purchased Medicare supplementary medical insurance for eligible Medicaid recipients. To eliminate double counting, Medicaid "buy-in" premiums (income to Medicare) are subtracted, and only Medicare benefits received by these Medicaid eligibles are counted when data from the two programs are presented together.

The introduction of these two programs, which accounted for almost three-quarters of all public spending in 1984, has dramatically increased the presence of the Federal Government in the health care market. Currently, the two programs pay 37 percent of all hospital expenditures, 23 percent of all physician expenditures, and 45 percent of all nursing home expenditures.

Over 30 million people, 90 percent of whom are 65 years of age or older, are enrolled in Medicare. The 1984 program expenditures totaled \$65 billion: \$63 billion was for benefit (personal health care) payments, and the remainder was for administrative expenses. About \$3,000 per person was paid in 1984 for the 21 million people receiving benefits. Medicare spending for personal health care increased 9.8 percent in 1984, up \$5.6 billion from 1983.

In 1984, Medicare spent an amount equal to 47 percent of the public share of personal health care expenditures and 18 percent of total spending for personal health care. Over 70 percent of Medicare benefits were for hospital care; another 23 percent were paid for physicians' services.

Medicare was created by Title XVIII of the Social Security Act. It began on July 1, 1966, as a Federal insurance program to protect the elderly from the high cost of health care. Rather than provide health care directly, Medicare reimbursed for care received from private sector providers. In July 1973, coverage was extended to permanently disabled workers and their dependents eligible for old age, survivors, and disability insurance (OASDI) benefits and to persons with end-stage renal disease.

Medicare has two parts, each with its own trust fund. The hospital insurance (HI) program, also

called Part A, pays for inpatient hospital services, posthospital skilled nursing services, home health services, and hospice care. The supplementary medical insurance (SMI) program, also called Part B, covers physician services, medical supplies and services, home health services, outpatient hospital services and therapy, and a few other services.

Unlike other Federal health programs, Medicare is not financed solely by general revenues. In 1984, 92 percent of the income for the HI program (Table 9) came from a 1.3 percent payroll tax levied on employers and on employees for the first \$37,800 of wages. Self-employed people were required to contribute 2.6 percent or the equivalent of both the employer's and the employee's share of the HI tax. Payroll contributions to the HI program increased 13.7 percent in fiscal year 1984, and HI benefit payments increased 8.9 percent.

The SMI program was financed by monthly premium payments of \$14.60 per enrollee and by general revenues (appropriations from general tax receipts). The general revenue share of SMI receipts has grown significantly, from about 50 percent in 1971 to 75 percent in 1984 (Table 9). Through calendar year 1983, SMI premiums could not increase more than the increase in monthly cash retirement and survivors benefits, requiring a proportionately greater amount of general tax revenues to maintain the trust fund. Beginning in 1984, premiums were established so as to cover 25 percent of the costs incurred by aged beneficiaries. Premiums for SMI rose to \$15.50 per month in 1985.

Efforts to curb rapidly growing Medicare expenditures resulted in changes in reimbursement policies in 1982 and 1983. Beginning in October 1983, a prospective payment system (PPS) was implemented in the form of predetermined reimbursement rates for 467 different diagnosis-related groups (DRG's). Under DRG's, hospitals are paid based on the diagnosis group into which a patient falls, regardless of services provided or length of stay (Grimaldi and Michelleti, 1984). The aim of DRG's is to encourage hospitals and attending physicians to consider the economic consequences of

Table 9

Payments into Medicare trust funds, by type of fund and source of income: Fiscal years 1971 and 1984

Year and source of income	Total		Hospital insurance trust fund		Supplementary medical insurance trust fund	
	Billions of dollars	Percent of total	Billions of dollars	Percent of total	Billions of dollars	Percent of total
1984 total	\$68.1	100.0	\$45.6	100.0	\$22.5	100.0
Payroll taxes	41.7	61.3	41.7	91.6	—	—
General revenues	17.8	26.2	1.0	2.2	16.8	74.6
Premiums	4.9	7.3	(¹)	.1	4.9	21.8
Interest	3.6	5.3	2.8	6.2	.8	3.6
1971 total	8.5	100.0	6.0	100.0	2.5	100.0
Payroll taxes	5.0	58.2	5.0	82.5	—	—
General revenues	2.1	24.8	.9	14.5	1.2	49.5
Premiums	1.3	14.7	—	—	1.3	49.8
Interest	.2	2.3	.2	3.0	(¹)	.7

¹ Less than \$50 million.

SOURCE: Health Care Financing Administration, Office of the Actuary.

prescribed courses of treatment—a facet from which they often were insulated.

Data from the Medicare statistical system indicate PPS is having an effect. In 1984, for the first time in over a decade, there was a decrease in the annual number of hospital admissions and total days of care for Medicare patients.

Data from the American Hospital Association show similar declines. Despite predictions of cost shifting to private payers and of increased hospital readmissions resulting from premature release from hospitals, neither has materialized.

Efforts to curtail the rapid growth in physician services were implemented in July 1984 with a 15-month freeze on physician fees. At the same time, the laboratory fee schedule was changed to reimburse independent labs and physicians for 60 percent of prevailing charges.

Beginning in 1984, certain working aged and their spouses could elect to have primary insurance coverage through an existing employer plan or through Medicare. Employers are no longer able to eliminate health coverage for employees 65-69 years of age who choose to be covered. Also, beginning in 1985, employers may not exclude from their group health insurance coverage spouses aged 65-69 of employees under age 65 who are covered by the group plan.

When Medicare began in 1966, 9.4 percent of the population was 65 years of age or over. By 1984, Social Security Administration actuaries estimated that 11.6 percent of the population was elderly. Because of this shift toward an older population, the percentage of the total population potentially eligible for Medicare on the basis of age has increased 24 percent. That increase in the proportion of the population eligible for Medicare, coupled with significant rises in medical care prices and intensity of services delivered, has put the solvency of the Medicare HI trust fund in jeopardy. The DRG reimbursement system has helped the situation, but it is not a solution in and of itself.

From 1977 to 1983, Medicare hospital expenditures grew at an average annual rate of 16.7 percent, in contrast to a 13.9 percent increase in overall hospital spending. In 1984, Medicare growth in hospital spending slowed to 9.6 percent, and growth in total expenditures for hospital care slowed even further—to 6.1 percent. The reduced rate of growth for all hospital expenditures and for Medicare hospital expenditures resulted from lower hospital price inflation and stronger cost containment measures. Despite these reductions in rates of growth, Medicare still grew 1½ times as fast as overall hospital expenditures.

Between 1974 and 1983, average annual growth in physician expenditures reimbursed by Medicare considerably exceeded the growth in overall expenditures for physician services. With the Medicare freeze on physicians' fees, growth in Medicare spending for physician services slowed by almost 50 percent in 1984 to a rate of 8.9 percent,

less than the 10.2 percent growth in overall spending for physician services.

Medicare reimbursement for home health agency services has grown significantly, increasing at an average annual rate of 24 percent since 1968. Home health care reimbursements in fiscal 1984 were \$1.9 billion, compared with \$60 million spent for home health care in fiscal year 1968. Growth in Medicare home health services continued unabated into fiscal year 1984 at a rate of 23.2 percent, moderating slightly from the 32.2 percent rate in 1983. Most of Medicare payments for home health agency care are included in "other professional services." The remainder, which was used to reimburse care provided by hospital-based agencies, is reported under "hospital care."

Beginning in October 1983, Medicare expanded hospital insurance benefits to include coverage of hospice care for terminally ill Medicare beneficiaries. If no changes are made in the law, this benefit will expire in December 1986. Expenditures of \$2 million in fiscal year 1984 and an estimated \$15 million in fiscal year 1985 are categorized as "other professional services" within the national health expenditures.

In 1984, Medicaid venter payments—\$37 billion in combined Federal and State funds—provided benefits equal to 11 percent of personal health care spending. Hospital and nursing home care each accounted for approximately 38 percent of program benefit expenditures. Medicaid expenditures for personal health care were 8.0 percent higher than in 1983. This is the third consecutive year in which annual increases in the Medicaid program have been less than 10 percent, and it is the fourth consecutive year in which growth in the Medicaid program has been less than that in total personal health care. A survey of Medicaid agencies (Intergovernmental Health Policy Project and National Governors' Association, 1985) indicates that State officials attribute the more controlled growth, in part, to greater flexibility in running the program. This flexibility includes the use of waivers, the institution of a DRG reimbursement system, the contracting with hospitals to deliver services, and the broadening of types of providers (such as nurse practitioners and midwives) from whom services can be received. The moderate growth in Medicaid program expenditures continued despite mandated expansion of program eligibility to specific groups of young children and pregnant women.

During fiscal year 1984, Medicaid paid an average of \$1,600 in benefits for each of its 21.5 million recipients. Two-thirds of the recipients qualify for Medicaid through their eligibility as members of families with dependent children; these recipients consume over one-quarter of all Medicaid-financed services. Aged, blind, and disabled eligible recipients, accounting for one-quarter of the recipients, consume 72 percent of all Medicaid financed services.

Medicaid was established in 1966 by Title XIX of the Social Security Act as a joint Federal-State program to provide medical assistance to certain categories of low-income people. These include aged,

blind, and disabled people and members of families with dependent children. States may also choose to cover medical benefits for the "medically needy"—people in one of the categories listed earlier who have incomes too high to qualify for cash assistance but not adequate to pay their medical bills. The program is run by the State, but the Federal Government, through what are called "matching funds," contributes a portion of the cost of providing medical benefits to the categorically eligible. The basic Federal share of Medicaid payments to a State is based on a formula that incorporates the State's *per capita* personal income. The Federal formula match ratio currently ranges from 50 to 78 percent, 83 percent being the maximum payable by law.

Medicaid finances more long-term, nonacute, institutional care than Medicare does. Long-term care is provided by nursing facilities, psychiatric hospitals, and home health agencies. Long-term care benefit expenditures amounted to almost one-half of all 1984 Medicaid program spending. Nursing-facility expenditures include spending in skilled nursing facilities, intermediate care facilities for the mentally retarded (ICFMR), and all other intermediate care facilities.

Health care for veterans

The Veterans' Administration (VA) provides compensation and pensions for military veterans and their survivors, as well as medical care for veterans. More than 28 million people are eligible to receive some medical care from the VA, although not all of them apply for benefits. In fiscal year 1984, hospital and other medical care for veterans accounted for over 31 percent of the \$26 billion in outlays of the VA. In the 1984 National Health Accounts, VA expenditures for personal health care are estimated at \$8.2 billion. Of that amount, \$6.7 billion, or 81 percent, was spent to provide care in 172 VA hospitals and to finance care in other hospitals. VA medical centers provided care for 1.3 million inpatients and supplied care during 18.6 million outpatient visits in fiscal year 1984.

In fiscal year 1984, 23.6 million inpatient days of care were financed by the Veterans' Administration in VA and non-VA hospitals. An additional 9.9 million inpatient days were provided in VA nursing homes or financed by the VA in State or community operated nursing facilities.

Over the next 20 years, the total number of veterans will decline. However, the average age of veterans will increase, and the number of veterans 65 years of age or older will more than double between 1984 and 1995 (Veterans' Administration, 1983). Since the aged use more services and more expensive services per capita than the nonaged population, the growth in costs of medical care provided by the VA are expected to accelerate.

Health care for the military and dependents

The U.S. Department of Defense (DOD) assumes responsibility for the health care needs of the Nation's active and retired military forces and their dependents and survivors. Approximately \$6.9 billion (10 percent of DOD outlays for salaries and benefits) was spent for health care in fiscal year 1984, including care for more than 2.2 million active personnel. The DOD health care system includes 168 hospitals that provided 5.2 million inpatient days of care in fiscal year 1984. Civilian Health and Medical Program of the Uniformed Services (CHAMPUS), the program that finances care required outside the DOD facilities (primarily for dependents and retirees), financed another 2.1 million inpatient days of care.

Indian health service

The Indian Health Service provides personal health care and public health services to approximately 987,000 Indians and Alaskan natives. Services are delivered through 47 hospital, 80 health centers, and over 500 health stations and satellite clinics operated by the Federal Government. In addition, the Indian Health Service finances health care delivered by tribes who run their own health facilities and by individual practitioners. In 1984, \$607 million was spent by the Indian Health Service in the delivery of personal health care.

Health block grants

During fiscal year 1982, Federal block grants were introduced for maternal and child health; preventive health; and alcohol, drug abuse, and mental health. A fourth health block grant, primary care, was implemented in fiscal year 1984, furnishing grants for community health centers to provide care for the medically needy population. Only West Virginia and the Virgin Islands initially accepted this block grant as the other States opted to continue to receive funds under the original categorical programs. (By fiscal 1985, however, both West Virginia and the Virgin Islands opted out of the primary care block grant program.) The objective of these block grants was to reduce the levels of Federal funding and to decrease Federal regulatory involvement while offering States flexibility in responding to their diverse health needs and priorities.

The transition to reduced funding under block grants was eased because many of the funds obligated in the last years of the categorical programs were not expended until after the block grant programs took effect. In addition, States were able to increase their general revenue fundings to the block grant programs, permitting the preblock grant level of health service spending to be continued (General Accounting Office, 1985a).

Maternal and child health programs promote the health of medically underserved mothers and children and of crippled children. State and local governments spent \$981 million, including Federal block and special project grants of \$351 million, for a variety of physician and other clinical services and for infant intensive care.

Federal preventive health block grants are included in Federal public health expenditures, funding various prevention and detection programs. The Federal Government obligated \$88 million to this block grant in fiscal year 1984. This grant program requires a 20-percent match in funds by States, which is included in State and local public health activities.

The alcohol, drug abuse, and mental health block grants provide funds for prevention, treatment, and rehabilitative programs. Outlays for block grants and special projects, along with Federal funding for St. Elizabeth's Hospital in Washington, D.C., amounted to \$589 million in 1984.

A report to Congress (General Accounting Office, 1982) indicates that a few program changes occurred during the early part of fiscal year 1982 as a result of the health block grants. States relied on the same mechanisms to handle block grants that were used in the supplanted categorical programs, because States had little time or money to institute change. States began to reexamine their needs, prioritize expenditures, and shift funds within the health sector in response to reduced Federal funding and to increased State budget constraints.

Programs such as maternal and child health and crippled children's services that affected a broad segment of the population received continued high priority compared with more narrowly defined programs such as the one to prevent lead paint poisoning (also included in the maternal and child health block grant). Programs where State involvement was minimal under the old categorical grant setup received lower priority under block grants. Increased public participation in setting priorities for block grant funds has been noted (General Accounting Office, 1984).

Workers' compensation

The workers' compensation program is designed to provide income maintenance and medical benefits for work-related disability and death. In 1982, 77.8 million workers were covered by Federal and State workers' compensation programs. In 1982, almost 30 percent of the benefits paid by these programs were for medical care, with the remaining 70 percent of benefits representing income-loss payments to workers and survivors (Price, 1984). In 1984, health and medical benefits under this program are estimated to reach \$5.7 billion.

Almost all of the benefits paid under the Federal workers' compensation program cover Federal civilian employees and their survivors or individuals covered under the Black Lung program.

Almost 95 percent of all workers' compensation medical benefits are paid under independent, State-administered programs. States' workers' compensation programs can be insured through private insurance companies under State oversight, State-operated insurance funds, State-regulated self-insurance funds, or a combination of these.

State and local government hospitals

State and local governments traditionally have subsidized the cost of health care provided to their citizens through general revenue subsidies of their hospitals. That subsidy—total expenses of non-Federal Government hospitals less patient revenue and payments by public programs—amounted to \$8.4 billion in 1984, about one quarter of the total expenses.

Other State and local government programs

State spending for medical care for the poor who are not eligible for Medicaid and State spending that is not eligible for Federal matching funds are classified as "other public assistance payments for medical care." In 1984, this spending amounted to \$2.0 billion. Another \$.9 billion was spent in 1984 through temporary disability insurance, school health, and vocational rehabilitation programs.

Philanthropy and industrial inplant services

Some health care is provided to industrial employees through inplant health services. Expenditures for these services, classified as "other health services," are estimated at \$2.0 billion for 1984. Funds for personal health care from private philanthropic organizations are classified by type of care and totaled over \$2.0 billion in 1984. Administrative and fundraising expenses of private charities and philanthropic support of research and construction are included with the respective expenditure categories.

Direct patient payments

People must pay some of the cost of health care themselves, as third parties in general do not cover all the expenses of such care. These expenditures, called "direct patient payments" in the National Health Accounts, are concentrated more in some types of services than in others.

Direct patient payments include a variety of expenditures. They include the out-of-pocket costs paid entirely by individuals when they purchase medical goods and services. In addition, they include coinsurance and deductible amounts paid by individuals. Coinsurance and deductible amounts paid by public programs or by private supplementary insurance programs (like Medigap) are included with third-party payments. Direct patient payments also

include uncovered services and amounts paid to providers of care over and above the usual, customary, or reasonable charges reimbursed by such insurance. The category does not include health insurance premiums, because some or all of those premiums are returned in the form of benefits during the year.

Direct patient payments are calculated as a residual, and, thus, contain the net effect of data errors. In addition, they include items for which we do not have an estimate, specifically, nonpatient revenue of hospitals and nursing homes.

The proportion of personal health care services borne directly by patients and their families increased slightly in 1983 and 1984. Direct patient payments in 1984 financed 28 percent of all personal health care.

The shortened length of stay for hospital services for the population 65 years of age or over is projected to increase the proportion of out-of-pocket payments by the aged Medicare beneficiaries. Since the deductible is based on the average cost of a day of hospital care (which is increasing) and is applied to the first day of care per benefit period, it is projected that out-of-pocket payments will account for a larger proportion of the total hospital bill for Medicare beneficiaries.

Until 1983, the proportion of personal health care expenditures borne directly by patients and their families had declined. Much of this decline is attributable to growth of private health insurance coverage and to steady increases in public program expenditures, particularly for hospital care and physicians' services. One exception to this trend is nursing home care, where slower growth of Medicaid reimbursement resulted in a larger proportion of private-pay patients.

Direct patient payments of \$95 billion in 1984 accounted for 28 percent of total personal health care expenditures. The share of expenditures borne directly by the consumer varies by type of service (Table 10). In 1984, direct patient payments accounted for 9 percent of spending for hospital care and for 28 percent of spending for physicians' services. Almost one-half of nursing home care expenditures (49 percent) were paid directly by consumers. In contrast, the direct patient payments financed three-fourths of all spending for eyeglasses and appliances and for drugs and sundries in 1984.

Definitions, concepts, and data sources

This report is the latest update of the national health expenditure estimates from the National Health Accounts. Provisional estimates of spending for health care in the Nation are presented for calendar year 1984, with selected historical data extending back to 1929.

The National Health Accounts provide a framework to help understand the nature of spending for health care. The accounts employ a classification matrix with a consistent set of definitions to categorize health care goods and services and the

manner in which their purchase is financed.

The framework of the National Health Accounts provides a more definitive picture of health care spending than do other systems, such as the National Income and Product Accounts (source of the GNP). However, care is taken to assure that the classifications used, and the estimates of levels generated, are consistent with those underlying the GNP (Cooper, Gibson, and Rice, 1982).

Different aspects of the National Health Accounts are explored in other work performed in HCFA (Arnett and Trapnell, 1984; Arnett, et al., 1985; Waldo and Lazenby, 1984; Levit, 1985).

Hospital care

The estimates of expenditures for hospital care are based on data on hospital finances collected by the American Hospital Association (AHA) as part of the Annual Survey of Hospitals and the monthly National Hospital Panel Survey of Community Hospitals. The data from the monthly survey are used to estimate the percent change in community hospital expenditures for periods more recent than the latest annual survey and to adjust the annual survey data to a calendar year basis.

The composite estimate represents all spending for hospital services in the Nation for both inpatient and outpatient care, including spending for drugs and other supplies and all services by hospital staff, including physicians salaried by the hospital.

Services of self-employed physicians in hospitals (surgeons, for example) are not counted as hospital expenditures. Anesthesia and X-ray services sometimes will be classified as hospital care expenditures and sometimes as expenditures for physicians' services, depending on billing practices. Spending for hospital-based home health agency services is included in this estimate, as are nursing home units in hospitals.

This category measures outlays for hospital services, rather than the cost of providing service. Total revenue data are used for community hospitals; for other types of hospitals, total expenses are used. Certain adjustments are made in the AHA data: Additions are made to allow for a small number of hospitals not included in the national totals; and for Federal hospitals, estimates are based on figures obtained from the responsible agencies.

Nursing home care

Expenditures for nursing home care encompass spending in all nonhospital facilities, or parts of facilities that provide some level of nursing care. Included are all nursing homes certified by Medicare and/or Medicaid as skilled nursing facilities, those certified by Medicaid as intermediate care facilities for regular patients, as well as solely for the mentally retarded, and all other homes providing some level of nursing care, even though they are not certified under either program.

Table 10
Personal health care expenditures, by selected source of funds and type of expenditure:
Calendar years 1982-84

Source of payment	Total	Personal health care							
		Hospital care	Physicians' services	Dentists' services	Other professional services	Drugs and sundries	Eyeglasses and appliances	Nursing home care	Other personal care
Amount in billions									
1984 personal health care expenditures	\$341.8	\$157.9	\$75.4	\$25.1	\$8.8	\$25.8	\$7.4	\$32.0	\$9.4
Direct payments	95.4	13.7	21.0	16.3	3.5	19.7	5.5	15.8	—
Third-party payments	246.5	144.2	54.4	8.8	5.3	6.1	2.0	16.2	9.4
Private health insurance	107.2	58.2	33.5	8.3	2.4	3.8	.8	.3	—
Philanthropy and industrial inplant	3.9	1.6	.0	—	.1	—	—	.2	2.0
Government	135.4	84.3	20.9	.5	2.8	2.4	1.2	15.7	7.5
Federal	101.1	65.6	16.9	.3	2.2	1.2	1.1	8.8	5.1
Medicare ¹	63.1	44.4	14.6	—	1.7	—	1.0	.6	.9
Medicaid ²	19.7	7.4	1.7	.2	.5	1.2	—	7.5	1.2
Other	18.3	13.8	.7	.0	.1	.1	.1	.7	3.0
State and local	34.3	18.7	4.0	.3	.6	1.2	.1	6.9	2.4
Medicaid ²	17.0	6.7	1.4	.2	.4	.9	—	6.4	1.1
Other	17.3	12.1	2.6	.0	.2	.3	.1	.6	1.3
1983 personal health care expenditures	315.2	148.8	68.4	21.8	8.0	23.6	6.5	29.4	8.6
Direct payments	86.4	12.8	18.9	13.9	3.6	18.2	4.8	14.2	—
Third-party payments	228.8	136.1	49.5	7.9	4.5	5.4	1.7	15.2	8.6
Private health insurance	100.3	56.6	30.1	7.3	2.0	3.3	.7	.2	—
Philanthropy and industrial inplant	3.7	1.6	.0	—	.1	—	—	.2	1.8
Government	124.8	77.8	19.3	.6	2.4	2.1	1.0	14.8	6.7
Federal	92.9	60.6	15.6	.3	1.8	1.1	.9	8.1	4.5
Medicare ¹	57.4	40.5	13.4	—	1.4	—	.8	.5	.8
Medicaid ²	18.3	6.9	1.6	.3	.4	1.0	—	7.0	1.0
Other	17.2	13.1	.6	.0	.1	.1	.1	.5	2.7
State and local	31.9	17.2	3.8	.3	.5	1.1	.1	6.7	2.2
Medicaid ²	15.7	6.0	1.3	.2	.3	.9	—	6.0	1.0
Other	16.2	11.3	2.4	.0	.2	.2	.1	.7	1.3

Table 10—Continued
Personal health care expenditures, by selected source of funds and type of expenditure:
Calendar years 1982-84

Source of payment	Total	Personal health care							
		Hospital care	Physicians' services	Dentists' services	Other professional services	Drugs and sundries	Eyeglasses and appliances	Nursing home care	Other personal care
Amount in billions									
1982 personal health care expenditures	\$284.9	\$134.7	\$61.8	\$19.5	\$7.1	\$21.8	\$5.6	\$26.9	\$7.6
Direct payments	77.2	10.3	17.7	12.4	3.3	16.9	4.2	12.4	—
Third-party payments	207.7	124.4	44.1	7.1	3.8	4.9	1.4	14.5	7.6
Private health insurance	91.0	51.8	27.1	6.5	1.8	2.9	.6	.3	—
Philanthropy and industrial inplant	3.4	1.4	.0	—	.1	—	—	.2	1.7
Government	113.4	71.2	16.9	.6	2.0	2.0	.8	14.0	5.9
Federal	83.9	55.4	13.4	.3	1.5	1.0	.7	7.7	4.0
Medicare ¹	51.1	36.8	11.4	—	1.1	—	.6	.5	.7
Medicaid ²	17.0	6.4	1.5	.3	.4	.9	—	6.7	.9
Other	15.9	12.2	.5	.0	.1	.0	.1	.5	2.5
State and local	29.5	15.8	3.6	.3	.5	1.0	.1	6.4	1.9
Medicaid ²	14.3	5.4	1.3	.2	.3	.8	—	5.6	.7
Other	15.2	10.4	2.3	.1	.2	.2	.1	.7	1.2

¹ Total expenditures are from trust funds for benefits. Trust fund income includes premium payments paid by or on behalf of enrollees.

² Includes funds paid into Medicare trust funds by States under "buy-in" agreements to cover premiums for public assistance recipients and for persons who are medically indigent.

NOTE: Amounts shown as ".0" reflect expenditures of less than \$50 million.

SOURCE: Health Care Financing Administration, Office of the Actuary.

The estimates for total nursing home expenditures other than those intermediate care facilities serving the mentally retarded are derived from data on facilities, utilization, and costs. Sources for these data are the National Center for Health Statistics' National Nursing Home Survey and the Internal Revenue Service (IRS) statistical reports. In years for which no data are available, estimates are based on measures of utilization and indexes of prices paid by nursing homes for labor and nonlabor resources. The nonhospital portion of Medicaid expenditures for intermediate care facilities for the mentally retarded is added to regular nursing home expenditures.

Services of physicians, dentists, and other health professionals

Expenditures for the services of these practitioners are based primarily on statistics compiled by the Internal Revenue Service from business income tax returns and published in *Statistics of Income—Business Income Tax Returns*.

Business receipts, which exclude nonpractice income, are summed for sole proprietorships, partnerships, and incorporated practices to form the core of the physician component. To that sum is added a portion of spending for outpatient independent laboratory services that is assumed to be billed directly to patients and not included with physicians' business receipts. An estimate of fees paid to physicians for life insurance examinations is deducted, and an estimate of the expenses of nonprofit group practice prepayment plans is added. Utilization measures and prices are used to project IRS-based physician expenditures to current periods.

Expenditures for nonprofit group practice dental clinics are added to the IRS total estimate of dentists' business receipts. No separate adjustment is necessary for dental laboratories, because all billings are assumed to be made through dentists' offices. Utilization measures and prices are used to project IRS-based dental expenditures to current periods.

The Internal Revenue Service statistics provide estimates of the income of other health professionals in private practice. These include private-duty nurses, chiropractors, optometrists, and other health professionals. Estimates for home health agencies that are not hospital based are added to the private income of other unspecified health professionals. The portions of optometrists' receipts that represent the cost of eyeglasses are deducted, because they are included under spending for eyeglasses and appliances. Expenditures for home health agencies that are hospital based are included in the estimate for hospital care. Utilization measures and prices are used to project these IRS-based expenditures to current periods.

The incomes of salaried physicians, dentists, and other practitioners are included with the expenditures for the employing provider, such as hospitals or hospital outpatient facilities. If they are serving in the

field services of the Armed Forces, their salaries are included with "other health services." Whenever possible, expenditures for the education and training of medical personnel are considered as expenditures for education and excluded from health expenditures.

Drug and medical sundries, eyeglasses, and orthopedic appliances

Expenditures in these categories include only spending for outpatient drugs and appliances purchased from retail trade outlets by consumers. The category excludes spending for goods provided to patients in hospitals and in nursing homes, and for those dispensed through physicians' offices. The basic source of the estimates for drugs and drug sundries and for eyeglasses and appliances is the estimate of personal consumption expenditures compiled by the Bureau of Economic Analysis of the Department of Commerce as part of the National Income and Product Accounts (NIPA). Payments by workers' compensation programs, Medicare, and the temporary disability program are deducted from the NIPA series to derive a private spending figure for drugs and for appliances. Combined with expenditures by public programs for these products, the data yield an estimate of the total expenditures for the Nation.

Other personal health care

Personal health care expenditures that do not clearly fit into a category of spending, or that are for unspecified purposes, are aggregated here. Public expenditures aggregated here include school health services, identified but unclassified expenses such as ambulance services reimbursed by Medicare, and public spending for which no service category can be identified. A substantial portion of the total is for care provided in Federal units other than hospitals, a residual amount that reflects the cost of running field and shipboard medical stations and military outpatient facilities separate from hospitals. Grants to community health centers are included in this category. The only private expenditures in other personal health care are for operation of industrial, onsite health services.

Government public health activities

The Federal portion of government public health activities consists of outlays for the organization and delivery of health services, the prevention and control of health problems, and similar health activities administered by various Federal agencies, chiefly within the U.S. Department of Health and Human Services (DHHS). Expenditures by the Food and Drug Administration and the Center for Disease Control within DHHS represent the largest single agency expenditures in the Federal Government for public health activities.

The State and local portion represents expenditures of all State and local health departments, less intergovernment payments to the States and localities for public health activities. It excludes expenditures of other State and local government departments for air pollution and water pollution control, sanitation, water supplies, and sewage treatment. The source of these data is *Government Finances*, an annual statistical series of the U.S. Bureau of the Census, and the periodic *Census of Governments*.

Program administration and the net cost of insurance

The net cost of insurance is the difference between the earned premiums or subscription income of private health insurers and claims or benefit expenditures incurred (in the case of organizations that provide services directly, the expenditures to provide such services). In other words, it is the amount retained by health insurers for administrative expenses, additions to reserves, and profits.

Administrative expenses in the National Health Accounts include nonpersonal health expenditures of private charities for health education, lobbying, fundraising, and so on. In addition, it includes administrative expenses of the Medicare, Medicaid, Veterans' Administration, Department of Defense, Workers' Compensation, Indian Health Service, and maternal and child health programs.

Medical research

Expenditures for medical research include all spending for biomedical research and research in the delivery of health services by private organizations and public agencies whose primary objective is the advancement of human health. Research expenditures of drug and medical supply companies are excluded, because they are included in the producer price of the product.

The Federal amounts are derived from agency reports collected and compiled by the National Institutes of Health. The amounts shown for State and local governments and private expenditures are also based on estimates prepared by the National Institutes of Health (1984).

Construction of medical facilities

Expenditures for construction are the "value put in place" for hospitals, nursing homes, medical clinics, and medical research facilities, but not those for private office buildings providing office and laboratory facilities for private practitioners. Also excluded are amounts spent for construction of water treatment or sewage treatment plants and Federal grants for these purposes. The data for "value put in place" for construction of publicly and privately owned medical facilities in each year are taken from Department of Commerce reports.

Government program expenditures

All expenditures for health care that are channeled through any program established by public law are treated as a public expenditure in the National Health Accounts. For example, expenditures under Workers' Compensation programs are included with Government expenditures, even though they involve benefits paid by insurers from premiums that have been collected from private sources.

In order to be included, the primary focus of a program must be on the provision of care or the treatment of disease; nutrition and antipollution programs are not included. For example, a U.S. Department of Agriculture grant program (the Women, Infants and Children [WIC] program) provided \$1.4 billion to supplement the diets of low-income pregnant women and mothers and their infants and children in fiscal year 1984. WIC, along with "Meals on Wheels" and similar programs, is not included in the National Health Accounts, because it is viewed as a nutrition program rather than a health service program.

Coinsurance and deductibles in the Medicare program are included among patient direct payments, but premiums paid by enrollees in the Medicare supplementary medical insurance (SMI) program (\$5.2 billion in 1984) are not treated as private expenditures.

In 1984, \$490 million was spent by the Medicaid program to purchase Medicare SMI coverage for eligible Medicaid recipients. This "buy-in" amount is reported both as a Medicaid expenditure and as a Medicare expenditure.

Federal expenditures

Federal program expenditures are based, in part, on data reported by the budget offices of Federal agencies. Several significant differences exist from spending reported in the Federal budget, however, because of the conceptual framework on which the national health expenditures series is based. Expenditures for education and training of health professionals are excluded from national health expenditures. These expenditures include direct support of health professional schools and student assistance through loans and scholarships. Payments by agencies for health insurance for employees are included with other private health insurance expenditures, rather than as a Government expenditure.

Outlays of Federal programs by the type of health care provided are based on information obtained from the agencies that administer each program.

State and local expenditures

In general, all spending by State and local government units for health care that is not reimbursed by the Federal Government through

benefit payments or grants-in-aid, or by patients or their agents, is treated as State and local expenditures. State and local spending is net of Federal reimbursements and grants-in-aid for various programs.

As with Federal expenditures, payments for employee health insurance by State and local governments as employers are included under private health insurance expenditures.

Private health insurance

Estimates of the amount of health care expenditures financed by private health insurance are derived from the data series on the financial experience of private health insurance organizations compiled and analyzed by the Health Care Financing Administration (Arnett and Trapnell, 1984).

Population

Official social security area population estimates are used to calculate health care spending per capita. The Social Security Administration adjusts U.S. resident population estimates obtained from the Census Bureau to account for a net census undercount and for persons residing outside the 50 States and the District of Columbia who are covered by social security. Covered persons residing outside the United States include members of the Armed Forces, U.S. civilian residents of Puerto Rico, the Virgin Islands, Guam and American Samoa, Federal civilian employees, crew members of merchant vessels, and other U.S. citizens.

Health care outlays for persons residing outside the United States are included in data from both public and private funding sources.

Price indexes for personal health care

To quantify the effects of price inflation on the growth of spending for personal health care, it is necessary to construct a measure of inflation of medical care prices. A byproduct of that process is a timeseries of "constant-dollar" personal health care spending—expenditures from which the effects of price inflation are removed.

The measure of price inflation used in this article is a fixed-weight price index. This type of index, sometimes called a "market-basket" or "Laspeyres" index, is constructed in two steps. In the first step, a base period is chosen and the percent of total spending accounted for by each category of spending is calculated; these percentages are called "expenditure weights." In the second step, a price index for each category of spending is multiplied by the expenditure weight for the category; the sum of these products is the fixed-weight index. The index is called a "fixed-weight" index because it answers the question, "How much would it cost today to purchase the same mix of goods and services that was purchased in the base period?" The effects on

expenditures of shifts from inpatient to outpatient care, for example, are ignored.

The individual service prices used to construct the price index come from published data. The prices of professional services, drugs and sundries, and miscellaneous personal health care are components of the Consumer Price Index (CPI), scaled to equal 100 in 1977 rather than 1967. The price index for eyeglasses and appliances is a combination of the CPI elements for optometrists' fees and for dispensing of eyeglasses. The prices of hospital and nursing home care are approximated by the Health Care Financing Administration's input price indexes for hospital care (Freeland, Anderson, and Schendler, 1979) and skilled nursing facility care. The price index values for the individual components are shown in Table 11.

A byproduct of the calculation of a fixed-weight price index is an estimate of "real" or "constant-dollar" spending for personal health care. This measure allows calculation of the growth in spending had prices alone remained unchanged from the base period. It is derived by dividing spending for each category of expenditures by the appropriate price index and summing those quotients to a total. The ratio of "nominal" or "current-dollar" spending and real spending is called the "implicit price deflator" (Table 11).

Estimates of real spending and of an implicit price index allow a subtly different analysis of growth in spending than does an estimate of the fixed-weight price index. The implicit price deflator answers the question, "How much more did we pay for the health care goods and services we bought today than we would have paid in the base year?" The implicit price deflator incorporates not only changes in prices but changes in the composition of the health dollar as well, shifts from inpatient to outpatient care and so on. In that sense, the price deflator is not a true price inflation measure, because shifts from high-inflation to low-inflation services will lower the deflator even if inflation itself remains unchanged. On the other hand, the fixed-weight price index, while measuring the effects of price inflation alone, studiously ignores shifts in the composition of consumption. In the case of personal health care expenditures, there appears to be little practical difference between the implicit price deflator and the fixed-weight price index (Table 11).

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Table 11

Personal health care expenditures in current and constant dollars, and price indexes for personal health care expenditures, by type of service: Selected calendar years 1965-84

Type of service	1984	1983	1982	1980	1977	1975	1970	1965
Current dollars in billions								
Personal health care	\$341.8	\$315.2	\$284.9	\$219.1	\$149.1	\$117.1	\$65.4	\$35.9
Hospital care	157.9	148.8	134.7	101.3	68.1	52.4	28.0	14.0
Physicians' services	75.4	68.4	61.8	46.8	31.9	24.9	14.3	8.5
Dentists' services	25.1	21.8	19.5	15.4	10.5	8.2	4.7	2.8
Other professional services	8.8	8.0	7.1	5.6	3.6	2.6	1.6	1.0
Drugs and sundries	25.8	23.6	21.8	18.5	14.1	11.9	8.0	5.2
Eyeglasses and appliances	7.4	6.5	5.6	5.1	3.7	3.2	1.9	1.2
Nursing home care	32.0	29.4	26.9	20.4	13.0	10.1	4.7	2.1
Other personal health care	9.4	8.6	7.6	5.9	4.2	3.8	2.1	1.1
Price indexes for components of personal health care								
Hospital care	185.90	175.40	164.80	133.50	100.00	85.00	58.60	42.30
Physicians' services	182.95	171.07	158.79	130.75	100.00	82.26	58.92	42.76
Dentists' services	176.81	163.52	153.23	129.78	100.00	87.47	64.47	49.78
Other professional services	178.33	166.46	155.35	129.86	100.00	84.78	61.69	45.39
Drugs and sundries	178.69	166.48	153.38	125.34	100.00	88.57	77.20	74.67
Eyeglasses and appliances	159.64	153.27	145.34	125.95	100.00	88.93	67.48	55.09
Nursing home care	172.30	164.50	155.50	130.40	100.00	86.90	59.90	42.30
Other personal health care	187.57	176.57	162.46	131.41	100.00	83.34	59.60	44.20
Constant 1977 dollars in billions								
Personal health care	\$188.0	\$184.2	\$178.0	\$166.9	\$149.1	\$137.6	\$106.6	\$77.3
Hospital care	84.9	84.9	81.7	75.9	68.1	61.7	47.7	33.0
Physicians' services	41.2	40.0	38.9	35.8	31.9	30.3	24.3	19.8
Dentists' services	14.2	13.3	12.7	11.9	10.5	9.4	7.4	5.6
Other professional services	4.9	4.8	4.6	4.3	3.6	3.1	2.6	2.3
Drugs and sundries	14.5	14.2	14.2	14.8	14.1	13.5	10.4	6.9
Eyeglasses and appliances	4.7	4.3	3.8	4.1	3.7	3.5	2.9	2.1
Nursing home care	18.6	17.9	17.3	15.6	13.0	11.6	7.8	4.9
Other personal health care	5.0	4.8	4.7	4.5	4.2	4.5	3.5	2.6
Price indexes for personal health care expenditures (1977 = 100)								
Implicit price deflator	181.86	171.14	160.12	131.30	100.00	85.12	61.33	46.37
Fixed-weight price index	181.97	171.11	160.03	131.28	100.00	85.14	61.27	46.43

SOURCE: Health Care Financing Administration, Office of the Actuary.

References

- American Medical Association: *The Environment of Medicine*. Chicago. American Medical Association, 1985.
- Arnett, R., Cowell, S., Davidoff, L., and Freeland, M.: Health spending trends in the 1980's: Adjusting to financial incentives. *Health Care Financing Review*. Vol. 6, No. 3. HCFA Pub. No. 03198. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Spring 1985.
- Arnett, R., and Trapnell, G.: Private health insurance: New measures of a complex and changing industry. *Health Care Financing Review*. Vol. 6, No. 2. HCFA Pub. No. 03195. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Winter 1984.
- Beebe, J., Lubitz, J., and Eggers, P.: Using prior utilization to determine payments for Medicare enrollees in health maintenance organizations. *Health Care Financing Review*. Vol. 6, No. 3. HCFA Pub. No. 03198. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Spring 1985.
- Baumol, W.: Macroeconomics of unbalanced growth. *American Economic Review*, June 1967.
- Business Week*. The corporate RX for medical costs. pp. 138-148, Oct. 15, 1984.
- Carroll, M., and Arnett, R.: Private health insurance plans in 1978 and 1979: A review of coverage, enrollment, and financial experience. *Health Care Financing Review*. Vol. 3, Issue 1. HCFA Pub. No. 03123. Office of Research, Demonstrations, and Statistics, Health Care Financing Administration. Washington. U.S. Government Printing Office, Sept. 1981.
- Cassak, D.: Hospitals in home healthcare, an industry in transition. *Health Industry Today* 47(7):16-28, July 1984.
- Chelimsky, E.: GAO study to identify issues pertaining to the impact of prospective payment system on long-term care. From letter to The Honorable John Heinz. U.S. General Accounting Office, Feb. 1985.
- Cooper, B., Gibson, R., and Rice, D.: U.S. national health accounts: Historical perspectives, current issues, and future projections, in E. Levy, ed., *Accounting for Health*. Paris, France. Economica, 1982.
- DesHarnais, S.: Enrollment in and disenrollment from health maintenance organizations by Medicaid recipients. *Health Care Financing Review*. Vol. 6, No. 3. HCFA Pub. No. 03198. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Spring 1985.
- Feder, J., and Scanlon, W.: *Medicare and Medicaid patients' access to skilled nursing facilities*. Washington, D.C. The Urban Institute, 1981.
- Freeland, M., Anderson, G., and Schendler, C.: National hospital input price index. *Health Care Financing Review*. Vol. 1, Issue 1. HCFA Pub. No. 03002. Office of Research, Demonstrations, and Statistics, Health Care Financing Administration. Washington. U.S. Government Printing Office, Summer 1979.
- Frost and Sullivan: *Home Healthcare Products and Services Markets in the U.S.* New York. Frost and Sullivan, 1983.
- Gable, J., and Ermann, D.: Preferred provider organizations: Performance, problems, and promise. *Health Affairs* 4(1):24-40, Spring 1985.
- General Accounting Office: *Report to Congress: Early Observations on Block Implementation*. GAO/GGO-82-79. Washington, D.C. U.S. General Accounting Office, Aug. 1982.
- General Accounting Office: *Report to Congress: Maternal and Child Health Block Grant: Program Changes Emerging Under State Administration*. GAO/HRD-84-35. Washington, D.C. U.S. General Accounting Office, May 1984.
- General Accounting Office: *Report to Congress: Block Grants Brought Funding Changes and Adjustment to Program Priorities*. GAO/HRD-85-33. Washington, D.C. U.S. General Accounting Office, Feb. 1985a.
- General Accounting Office: Statement by Michael Zimmerman, Associate Director, Human Resources Division, before the Committee on Ways and Means, Subcommittee on Health, United States House of Representatives, on Medicare payments to hospitals. Washington, D.C. May 14, 1985b.
- Ginzberg, E., Balinsky, W., and Ostow, M.: *Home Health Care, Its Role in the Changing Health Services Market*. Totowa, N.J. Rowman and Allanheld, 1984.
- Glenn, K.: Hospital continuing care arrangements. *Washington Report on Medicine and Health/Perspectives* 39(19) Washington, D.C. May 13, 1985a.
- Glenn, K.: Hospital advertising and marketing. *Washington Report on Medicine and Health/Perspectives*. 39(23) Washington, D.C. June 10, 1985b.
- Grimaldi, P., and Micheletti, J.: *Medicare's Prospective Payment Plan*. Chicago. Pluribus Press, Inc., 1984.
- Hilts, P.: Doctors are dramatically reducing prescriptions for drugs, all medicines. *The Washington Post*. Washington, D.C. July 29, 1982.
- Horwitz, S.: Walk-in centers transforming the business of medicine. *The Washington Post*. Business Section: 1,11. Washington, D.C. May 27, 1985.
- Hospital Data Center: Panel survey of community hospitals. Computer listings. American Hospital Association, Chicago. Mar. 16, 1985.
- Intergovernmental Health Policy Project and National Governors' Association: *Recent and Proposed Changes in State Medicaid Programs—A Fifty State Survey*. Washington, D.C. The George Washington University, 1985.
- InterStudy: *InterStudy Census Reports Record-breaking HMO Growth*. News release. Excelsior, Minn. May 10, 1985.
- Jaggar, F: *F.E.C. Factor II, A Statistical Report Concerning the ACC/FEC Industry*. Commissioned by the National Association for Ambulatory Care. Washington, D.C. Commerce International, June 1985.
- Levit, K.: Personal health care expenditures by State, selected years 1966-82. *Health Care Financing Review*. Vol. 6, No. 4. HCFA Pub. No. 03199. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Summer 1985.
- National Institutes of Health: *N.I.H. Data Book*. NIH Pub. No. 84-1261. Washington, D.C. U.S. Public Health Service, June 1984.

Office of Health Maintenance Organizations: *HMO Fact Sheet*. Public Health Service. Hyattsville, Md. Apr. 1985.

Parker, S.: The hospitals: More luxuries, services. *The Washington Post*, Health Section 1(22):12-13. June 5, 1985.

Price, D.: Workers' compensation: Coverage, benefits, and costs, 1982. *Social Security Bulletin*. SSA Pub. No. 13-11700. Office of Policy, Social Security Administration. Washington. U.S. Government Printing Office, Dec. 1984.

Reed, L., and Rice, D.: National health expenditures: Object of expenditures and source of funds, 1962. *Social Security Bulletin*. Aug. 1964.

Social Security Administration: Social security area population projections, 1985. Unpublished data. Office of the Actuary, Social Security Administration. Baltimore, MD 1985.

Veterans' Administration: *Veteran Population Projections, by Age and Period of Service, Selected Years 1984-2030*. Washington, D.C. Office of Reports and Statistics, Statistical Policy and Research Service. Apr. 1983.

Waldo, D., and Lazenby, H.: Demographic characteristics and health care use and expenditures by the aged in the United States: 1977-84. *Health Care Financing Review*. Vol. 6, No. 1. HCFA Pub. No. 03176. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Fall 1984.

Washington Hospital Center: *Washington Hospital Center's 6D—Suites for Medical Care in an Exclusive Personal Environment*. Promotional literature. Washington, D.C.

Weissert, W., Scanlon, W., Wan, T., and Skinner, D.: Care for the chronically ill: Nursing home incentive payment experiment. *Health Care Financing Review*. Vol. 5, No. 2. HCFA Pub. No. 03168. Office of Research and Demonstrations, Health Care Financing Administration. Washington. U.S. Government Printing Office, Feb. 1983.

Wennberg, J.: Dealing with medical practice variations: A proposal for action. *Health Affairs* 3(2):6-32, Summer 1984.

Williams, J., Gaumer, G., and Cella, M.: *Home Health Services: An Industry in Transition*. Contract No. 500-84-0021-HCFA. Washington, D.C. Abt Associates, 1984.