Delivering Health Care in America

A SYSTEMS APPROACH SEVENTH EDITION



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Preface

With this *Seventh Edition*, we celebrate 20 years of serving instructors, students, policymakers, and others, both at home and overseas, with up-to-date information on the dynamic U.S. health care delivery system. Much has changed, and much will continue to change in the future, as the nation grapples with critical issues of access, cost, and quality. Indeed, much of the developing and developed world will also be contending with similar issues.

People in the United States, in particular, have just gotten a taste of a far-reaching health care reform through President Barack Obama's signature Affordable Care Act (ACA), nicknamed "Obamacare." To date, this law has produced mixed results that are documented in this new edition.

At the time this edition went to press, we were left with promises of another reform under the slogan "Repeal and replace Obamacare," a move championed by President Donald Trump, who had made it one of the centerpieces of his presidential campaign. Much remains to be seen as to how this promise will play out.

On May 4, 2017, the U.S. House of Representatives passed the American Health Care Act (AHCA) by a vote of 217 to 213, with Republican support. The bill is likely to undergo significant changes in the U.S. Senate. Hence, what the new law may eventually look like was unknown at the time this manuscript went to press. As was the case with the ACA, for which the Democratic Party played an exclusive role in its passage, contentious debates, partisanship, and deal making among both Republicans and Democrats have marked

the progress in moving the new law through Congress.

Although we have chosen to sidestep any premature speculation about the fate of the ACA and the shape of its replacement, wherever possible, we have presented trends and facts that support certain conclusions. Mainly, experiences and outcomes under the ACA have been highlighted in this edition.

On his first day in office in January 2017, President Trump signed an executive order to "waive, defer, grant exemptions from, or delay the implementation of any provision or requirement of the [Affordable Care] Act that would impose a fiscal burden on any State or a cost, fee, tax, penalty, or regulatory burden on individuals, families, health care providers, health insurers, patients, recipients of health care services, purchasers of health insurance, or makers of medical devices, products, or medications." This executive order effectively repealed small portions of the ACA that deal with taxation and fees.

Going forward, the issues of universal coverage and affordability of insurance and health care will be critical. Under the ACA, approximately 27 million people remained uninsured, even though the uninsurance rate in the United States dropped from 13.3% to 10.9% between 2013 and 2016. The majority of the newly insured individuals were covered under Medicaid, the nation's safety net health insurance program for the poor.

Another thorny issue will be how to provide health care for the millions of illegal immigrants who obtain services mainly through hospital emergency departments, and through charitable sources to some extent. Is there a better, more cost-effective way to address their needs?

The affordability of health insurance in the non-employment-based private market was severely eroded under the ACA, mainly for those who did not qualify for federal subsidies to buy insurance. The reason for the rate hikes in this segment was that few young and healthy people enrolled in health care plans under the ACA. Consequently, for many people, premium costs rose to unaffordable levels in 2016. People who really needed to use health care enrolled in much larger numbers than healthier individuals. Such an adverse selection prompted the chief executive of Aetna Insurance, Mark Bertolini, to remark that the marketplace for individual health insurance coverage was in a "death spiral." Some large insurance companies either pulled out of the government-sponsored health care exchanges or were planning to do so because of financial losses sustained under the ACA.

New to This Edition

This edition continues to reference some of the main features of the ACA wherever it was important to provide contextual discussions from historical and policy perspectives. Several chapters cover the main provisions of the 21st Century Cures Act, which, after a long delay, was finally passed by Congress and signed by President Obama in December 2016.

As in the past, this text has been updated throughout with the latest pertinent data, trends, and research findings available at the time the manuscript was prepared. Copious illustrations in the form of examples, facts, figures, tables, and exhibits continue to make the text come alive. Following is a list of the main additions and revisions:

Chapter 1

 Updates the impact of the Affordable Care Act (ACA) Critical global health issues and health care reforms in other countries

Chapter 2

- Health insurance under the ACA
- Evaluation of progress made toward the Healthy People 2020 goals
- Information on global pandemics and infectious diseases

Chapter 3

- Expanded section: Reform of mental health care
- Complete revision of the section: Era of health care reform

Chapter 4

- Major issues related to the health care workforce
- Updated information on nonphysician providers

Chapter 5

- New section: Electronic health records and quality of care
- Global trends in biomedical research and a new table on R&D expenditures
- New section: Drugs from overseas
- New section: Health care reform and medical technology

Chapter 6

- New section: Private coverage and cost under the Affordable Care Act
- New section: Medicaid experiences under the ACA

- New section: Issues with Medicaid
- New section: Long-term care hospital payment systems
- New section: Value-based reimbursement (discusses the MACRA and Medicare Shared Savings Program)
- Updated current directions and issues in financing

Chapter 7

- Research findings using the Primary Care Assessment Tool
- Measurement and achievement of the patient-centered medical home
- The impact of community health centers

Chapter 8

- New section: Comparative data from the Organization for Economic Cooperation and Development on hospital access and utilization
- Comparative hospital prices in selected countries
- New section: Factors that affect hospital employment
- New section: Rise in bad debts
- New section: State mental health institutions
- Update on physician-owned specialty hospitals
- Medicare designations of sole community hospitals and Medicare-dependent hospitals
- Patient outcomes at Magnet hospitals
- New section: Hospital costs

Chapter 9

- "Any willing provider" and "freedom of choice" laws under managed care regulations
- The latest on accountable care organizations

Chapter 10

 New section: Recent policies for communitybased services

Chapter 11

- Updated information on vulnerable subpopulations
- Expanded coverage on chronically ill patients

Chapter 12

- Current issues in health care costs, access, and quality
- Pay-for-performance in health care
- Quality initiatives in both the public and private sectors

Chapter 13

- Current critical policy challenges
- Future health policy issues in both the United States and abroad

Chapter 14

- Almost all sections have been completely updated
- New section: No single payer
- New section: Reforming the reform
- New section: Universal coverage and access
- New section: Toward population health

As in the previous editions, our aim is to continue to meet the needs of both graduate and undergraduate students. We have attempted to make each chapter complete, without making it overwhelming for beginners. Instructors, of course, will choose the sections they decide are most appropriate for their courses.

x Preface

As in the past, we invite comments from our readers. Communications can be directed to either or both authors:

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We appreciate the work of Hailun Liang and Megha Parikh in providing assistance in the preparation of selected chapters of this text.



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List of Abbreviations/Acronyms

A

AALL—American Association of Labor Legislation

AAMC—Association of American Medical Colleges

AA/PIs—Asian Americans and Pacific Islanders

AAs—Asian Americans

ACA—Affordable Care Act

ACNM—American College of

Nurse-Midwives

ACO—accountable care organization

ACS—American College of Surgeons

ADA—American Dental Association

ADC—adult day care

ADLs—activities of daily living

ADN—associate's degree nurse

AFC—adult foster care

AHA—American Hospital Association

AHRQ—Agency for Healthcare Research and Quality

AIANs—American Indians and Alaska Natives

AIDS—acquired immunodeficiency syndrome

ALF—assisted living facility

ALOS—average length of stay

AMA—American Medical Association

AMDA—American Medical Directors

Association

ANA—American Nurses Association

APCs—ambulatory payment classifications

APN—advanced practice nurse

ARRA—American Recovery and

Reinvestment Act

ASPR—Assistant Secretary for Preparedness and Response

B

BBA—Balanced Budget Act

BPCI—bundled payments for care improvement

BSN—baccalaureate degree in nursing

BWC—Biological and Toxin Weapons Convention

CAH—critical access hospital

CAM—complementary and alternative medicine

CBO—Congressional Budget Office

CCAH—continuing care at home

CCRC—continuing care retirement center/community

CDC—Centers for Disease Control and Prevention

CDSS—clinical decision support system

CEO—chief executive officer

CEPH—Council on Education for Public Health

CER—comparative effectiveness research

CF—conversion factor

CHAMPVA—Civilian Health and Medical Program of the Department of Veterans Affairs

CHC—community health center

CHIP—Children's Health Insurance Program

CMGs—case-mix groups

C/MHCs—community and migrant health centers

CMS—Centers for Medicare and Medicaid Services

CNA—certified nursing assistant

CNM—certified nurse-midwife

CNS—clinical nurse specialist

COBRA—Consolidated Omnibus Budget Reconciliation Act

CON-certificate of need

COPC—community-oriented primary care

COTA—certified occupational therapy assistant

COTH—Council of Teaching Hospitals and Health Systems

CPI—consumer price index

CPOE—computerized provider order entry

CPT—Current Procedural Terminology

CQI—continuous quality improvement

CRNA—certified registered nurse anesthetist **CT**—computed tomography

DC—Doctor of Chiropractic

DD—developmental disability

DDS—Doctor of Dental Surgery

DGME—Direct Graduate Medical Education

DHHS—U.S. Department of Health and Human Services

DHS—Department of Homeland Security

DMD—Doctor of Dental Medicine

DME—durable medical equipment

DO—Doctor of Osteopathic Medicine

DoD—Department of Defense

DPM—Doctor of Podiatric Medicine

DRA—Deficit Reduction Act

DRGs—diagnosis-related groups

DSM-5—Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition

DTP—diphtheria/tetanus/pertussis (vaccine)

E

EBM—evidence-based medicine

EBRI—Employee Benefit Research Institute

ECG—electrocardiogram

ECU—extended care unit

ED—emergency department

EHRs—electronic health records

EMT—emergency medical technician

EMTALA—Emergency Medical Treatment and

Active Labor Act

ENP—Elderly Nutrition Program

ERISA—Employee Retirement Income

Security Act

ESRD—end-stage renal disease

F

FD&C Act—Federal Food, Drug, and

Cosmetic Act

FDA—Food and Drug Administration

FMAP—Federal Medical Assistance

Percentage

FPL—federal poverty level

FTE—full-time equivalent

FY—fiscal year

G

GAO—General Accounting Office

GDP—gross domestic product

GP—general practitioner

Н

HAART—highly active antiretroviral therapy

HCBS—home- and community-based services

HCBW—home- and community-based waiver

HCH—Health Care for the Homeless

HCPCS—Healthcare Common Procedures Coding System

HDHP—high-deductible health plan

HDHP/SO—high-deductible health plan with a savings option

HEDIS—Healthcare Effectiveness Data and Information Set

HHRG—home health resource group

HI—hospital insurance

HIAA—Health Insurance Association of America

Hib—Haemophilus influenzae serotype b

HIO—health information organization

HIPAA—Health Insurance Portability and Accountability Act

HIT—health information technology

HITECH— Health Information Technology for Economic and Clinical Health Act

HIV—human immunodeficiency virus

HMO—health maintenance organization

HMO Act—Health Maintenance Organization Act

HPSAs—health professional shortage areas

HPV—human papillomavirus

HRA—health reimbursement arrangement

HRQL—health-related quality of life

HRSA—Health Resources and Services Administration

HSA—health savings account

HTA—health technology assessment

HUD—U.S. Department of Housing and Urban Development



IADLs—instrumental activities of daily living

ICF—intermediate care facility

ICF/IID—intermediate care facilities for individuals with intellectual disabilities

ICF/MR—intermediate care facilities for the mentally retarded

ID—intellectual disability

IDD—intellectual/developmental disability

IDEA—Individuals with Disabilities

Education Act

IDS—integrated delivery systems

IDU—injection drug use

IHR—International Health Regulations

IHS—Indian Health Service

IME—Indirect Medical Education

IMGs—international medical graduates

IOM—Institute of Medicine

IPA—independent practice association

IRB—institutional review board

IRF—inpatient rehabilitation facility

IRMAA—Income-Related Monthly Adjustment Amount

IRS—Internal Revenue Service

IS—information systems

IT—information technology

IV—intravenous



LPN—licensed practical nurse

LTC—long-term care

LTCH—long-term care hospital

LVN—licensed vocational nurse

M

MA—Medicare Advantage

MA-PD—Medicare Advantage Prescription Drug Plan

MA-SNP—Medicare Advantage Special Needs Plan

MACPAC—Medicaid and CHIP Payment and Access Commission

MACRA—Medicare Access and CHIP Reauthorization Act

MBA—Master of Business Administration

MCOs—managed care organizations

MD—Doctor of Medicine

MDS—Minimum Data Set

MedPAC—Medicare Payment Advisory Commission

MEPS—Medical Expenditure Panel Survey

MERS—Middle East respiratory syndrome

MFP—Money Follows the Person

MHA—Master of Health Administration

MHS—multihospital system

MHSA—Master of Health Services

Administration

MIPS—Merit-based Incentive Payment System

MLP—midlevel provider

MLR—medical loss ratio

MMA—Medicare Prescription Drug, Improvement, and Modernization Act

MMR—measles/mumps/rubella vaccine

MPA—Master of Public Administration/Affairs

MPFS—Medicare Physician Fee Schedule

MPH—Master of Public Health

MRHFP—Medicare Rural Hospital Flexibility Program

MRI—magnetic resonance imaging

MSA—metropolitan statistical area

MS-DRGs—Medicare severity diagnosis-related groups

MSO—management services organization

MSSP—Medicare Shared Savings Program

MUAs—medically underserved areas

N

NAB—National Association of Boards of Examiners of Long-Term Care Administrators **NAPBC**—National Action Plan on Breast Cancer

NCCAM—National Center for Complementary and Alternative Medicine

NCCIH—National Center for Complementary and Integrative Health

NCHS—National Center for Health Statistics

NCQA—National Committee for Quality Assurance

NF—nursing facility

NGC—National Guideline Clearinghouse

NHC—neighborhood health center

NHE—national health expenditures

NHI—national health insurance

NHS—national health system

NHS—U.K. National Health Service

NHSC—National Health Service Corps

NICE—National Institute for Health and Clinical Excellence

NIH—National Institutes of Health

NIMH—National Institute of Mental Health

NP—nurse practitioner

NPP—nonphysician practitioner

NRP— National Response Plan



OAM—Office of Alternative Medicine

OBRA—Omnibus Budget Reconciliation Act

OD—Doctor of Optometry

OI—opportunistic infection

OPPS—Outpatient Prospective Payment System

OT—occupational therapist

OWH—Office on Women's Health

P

P4P—pay-for-performance

PA—physician assistant

PACE—Program of All-Inclusive Care for the Elderly

PAHPA—Pandemic and All-Hazards Preparedness Act

PASRR—Preadmission Screening and Resident Review

PBMs—pharmacy benefits managers

PCCM—primary care case management

PCGs—primary care groups

PCMH—patient-centered medical home

PCP—primary care physician

PDP—stand-alone prescription drug plan

PERS—personal emergency response system

PET—positron emission tomography

PFFS—private fee-for-service

PharmD—Doctor of Pharmacy

PhD—Doctor of Philosophy

PHI—personal health information

PHO—physician-hospital organization

PhRMA—Pharmaceutical Research and Manufacturers of America

PMPM—per member per month

POS—point-of-service (plan)

PPD—per-patient day (rate)

PPM—physician practice management

PPO—preferred provider organization

PPS—prospective payment system

PRO—peer review organization

PSO—provider-sponsored organization

PSRO—professional standards review organization

PsyD—Doctor of Psychology

PTA—physical therapy assistant

PTCA—percutaneous transluminal coronary angioplasty

PT-physical therapist

Q

QALY—quality-adjusted life year

QI—quality indicator

QIO—quality improvement organization

R

R&D—research and development

RBRVS—resource-based relative value scales

RN—registered nurse

RUGs—resource utilization groups

RVUs—relative value units

RWJF—Robert Wood Johnson Foundation

S

SAMHSA—Substance Abuse and Mental

Health Services Administration

SARS—severe acute respiratory syndrome

SAV—small area variations

SES—socioeconomic status

SGR—sustainable growth rate

SHI—socialized health insurance

SMI—supplementary medical insurance

SNF—skilled nursing facility

SPECT—single-photon emission computed tomography

SSI—Supplemental Security Income

STD—sexually transmitted disease

Т

TAH—total artificial heart

TANF—Temporary Assistance for Needy Families

TCU—transitional care unit

List of Abbreviations/Acronyms

TEFRA—Tax Equity and Fiscal Responsibility Act TPA—third-party administrator TQM—total quality management



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UCR—usual, customary, and reasonable UR—utilization review



VA—Department of Veterans Affairs **VBP**—Value-Based Purchasing

VHA—Veterans Health Administration **VISN**—Veterans Integrated Service Network



WHO—World Health Organization WIC—Special Supplemental Nutrition Program for Women, Infants, and Children



CHAPTER 1

An Overview of U.S. Health Care Delivery

LEARNING OBJECTIVES

- Understand the basic nature of the U.S. health care system.
- Outline the key functional components of a health care delivery system.
- Get a basic overview of the Affordable Care Act.
- Discuss the primary characteristics of the U.S. health care system.
- Emphasize why it is important for health care practitioners and managers to understand the intricacies of the health care delivery system.
- Get an overview of health care systems in selected countries.
- Point out global health challenges and reform efforts.
- Introduce the systems model as a framework for studying the health care system in the United States.



The U.S. health care delivery system is a behemoth that is almost impossible for any single entity to manage and control.

Introduction

The United States has a unique system of health care delivery that is unlike any other health care system in the world. Almost all other developed countries have national health insurance programs run by the government and financed through general taxes. Nearly all citizens in such countries are entitled to receive health care services. Such is not yet the case in the United States, where Americans are not automatically covered by health insurance.

Though U.S. health care is often called a system because is has various features, components, and services, it may be misleading to talk about the American health care delivery "system," because a true, cohesive system does not exist (Wolinsky, 1988). Indeed, a major feature of the U.S. health care system is its fragmented nature, as different people obtain health care through different means. The system has continued to undergo periodic changes, mainly in response to concerns regarding costs, access, and quality.

Describing health care delivery in the United States can be a daunting task. To facilitate an understanding of the structural and conceptual basis for the delivery of health care services, this text is organized according to the systems framework presented at the end of this chapter. Also, for the sake of simplicity, the mechanisms of health care delivery in the United States are collectively referred to as a system throughout this text.

The main objective of this chapter is to provide a broad understanding of how health care is delivered in the United States. Examples of how health care is delivered in other countries are also presented for the sake of comparison. The

overview presented here introduces the reader to several concepts discussed more extensively in later chapters.

An Overview of the Scope and Size of the System

TABLE 1-1 demonstrates the complexity of health care delivery in the United States. Many organizations and individuals are involved in health care. To name just a few: educational and research institutions, medical suppliers, insurers, payers, and claims processors to health care providers. A multitude of providers are involved in the delivery of preventive, primary, subacute, acute, auxiliary, rehabilitative, and continuing care. A large number of managed care organizations (MCOs) and integrated networks now provide a continuum of care, covering many of the service components.

The U.S. health care delivery system is massive, with total employment that exceeded 16.4 million people in 2010 in various health delivery settings. This number included more than 838,000 professionally active doctors of medicine (MDs), 70,480 osteopathic physicians (DOs), and 2.6 million active nurses (U.S. Census Bureau, 2012). The majority of health care and health services professionals (5.98 million) work in ambulatory health service settings, such as the offices of physicians, dentists, and other health practitioners, medical and diagnostic laboratories, and home health care service locations. Smaller proportions of these professionals are employed by hospitals (4.7 million) and nursing and residential

	TABLE 1-1 The Complexity of Health Care Delivery						
Education/Research	Suppliers	Insurers	Providers	Payers	Governmen		
Medical schools Dental schools Nursing programs Physician assistant programs Nurse practitioner programs Physical therapy, occupational therapy, speech therapy programs Research organizations Private foundations U.S. Public Health Service (Agency for Healthcare Research and Quality, Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Food and Drug Administration, Health Resources and Services Administration, Indian Health Service, National	Pharmaceutical companies Multipurpose suppliers Biotechnology companies	Managed care plans Blue Cross/ Blue Shield plans Commercial insurers Self-insured employers Medicare Medicaid Veterans Affairs Tricare	Preventive Care Health departments Primary Care Physician offices Community health centers Dentists Nonphysician providers Subacute Care Subacute care facilities Ambulatory surgery centers Acute Care Hospitals Auxiliary Services Pharmacists Diagnostic clinics X-ray units Suppliers of medical equipment Rehabilitative Services Home health agencies	Blue Cross/ Blue Shield plans Commercial insurers Employers Third-party admin- istrators State agencies	Public insurance financing Health regulations Health policy Research funding Public health		

Education/Research	Suppliers	Insurers	Providers	Payers	Government
Medical schools Dental schools Nursing programs Physician assistant programs Nurse practitioner programs Physical therapy, occupational therapy, speech therapy programs Research organizations Private foundations U.S. Public Health Service (Agency for Healthcare Research and Quality, Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Food and Drug Administration, Health Resources and Services Administration, Indian Health Service, National Institutes of Health, Substance Abuse and Mental Health Services Administration) Professional associations Trade associations	Pharmaceutical companies Multipurpose suppliers Biotechnology companies	Managed care plans Blue Cross/ Blue Shield plans Commercial insurers Self-insured employers Medicare Medicaid Veterans Affairs Tricare	Health departments Primary Care Physician offices Community health centers Dentists Nonphysician providers Subacute Care Subacute Care facilities Ambulatory surgery centers Acute Care Hospitals Auxiliary Services Pharmacists Diagnostic clinics X-ray units Suppliers of medical equipment Rehabilitative Services Home health agencies Rehabilitation centers Skilled nursing facilities Continuing Care Nursing homes End-of-Life Care Hospices Integrated Managed care organizations Integrated networks	Blue Cross/ Blue Shield plans Commercial insurers Employers Third-party admin- istrators State agencies	Public insurance financing Health regulations Health policy Research funding Public health

care facilities (3.13 million). The vast array of health care institutions in the United States includes approximately 5,795 hospitals, 15,700 nursing homes, and 13,337 substance abuse treatment facilities (U.S. Census Bureau, 2012).

In 2015, 1,375 federally qualified health center grantees, with 188,851 fulltime employees, provided preventive and primary care services to approximately 24.3 million people living in medically underserved rural and urban areas (Health Resources and Services Administration [HRSA], 2015). Various types of health care professionals are trained in 180 medical and osteopathic schools (Association of American Medical Colleges, 2017), 66 dental schools (American Dental Association, 2017), 136 schools of pharmacy (American Association of Colleges of Pharmacy, 2017), and more than 1,500 nursing programs located throughout the country. Multitudes of government agencies are involved with the financing of health care, medical research, and regulatory oversight of the various aspects of the health care delivery system.

A Broad Description of the System

U.S. health care delivery does not function as a rational and integrated network of components designed to work together coherently. To the contrary, it is a kaleidoscope of financing, insurance, delivery, and payment mechanisms that remain loosely coordinated. Each of these basic functional components represents an amalgam of public (government) and private sources. Government-run programs finance and insure health care for select

groups of people who meet each program's prescribed criteria for eligibility. To a lesser degree, government programs also deliver certain health care services directly to certain recipients, such as veterans, military personnel, American Indians/Alaska Natives, and some uninsured people. Nevertheless, the financing, insurance, payment, and delivery functions largely remain in private hands.

The market-oriented economy in the United States attracts a variety of private entrepreneurs that pursue profits by facilitating the key functions of health care delivery. Employers purchase health insurance for their employees through private sources, and employees receive health care services delivered by the private sector. The government finances public insurance through Medicare, Medicaid, and the Children's Health Insurance Program (CHIP) for a significant portion of the country's low-income, elderly, disabled, and pediatric populations. However, insurance arrangements for many publicly insured people are made through private entities, such as health maintenance organizations (HMOs), and health care services are rendered by private physicians and hospitals. This blend of public and private involvement in the delivery of health care has resulted in the following characteristics of the U.S. system:

- A multiplicity of financial arrangements for health care services
- Numerous insurance agencies or MCOs that employ various mechanisms for insuring against risk
- Multiple payers that make their own determinations regarding how much to pay for each type of service
- A diverse array of settings where medical services are delivered

 Numerous consulting firms offering expertise in planning, cost containment, electronic systems, quality, and restructuring of resources

There is little standardization in a system that is functionally fragmented, and in which the various system components fit together only loosely. Because a central agency such as the government does not oversee the overall coordination of such a system, problems of duplication, overlap, inadequacy, inconsistency, and waste occur. Lack of system-wide planning, direction, and coordination leads to a complex and inefficient system. Moreover, the system as a whole does not lend itself to standard budgetary methods of cost control. Individual and corporate entities within a predominantly private entrepreneurial system seek to manipulate financial incentives to their own advantage, without regard to their impact on the system as a whole. Hence, cost containment remains an elusive goal.

In short, the U.S. health care delivery system is like a behemoth that is almost impossible for any single entity to manage or control. The United States consumes more health care services as a proportion of its total economic output than any other country in the world. The U.S. economy is the largest in the world and, compared to other nations, consumption of health care services in the United States represents a greater proportion of the country's total economic output. Although the system can be credited for delivering some of the best clinical care in the world, it falls short of delivering equitable services to every American. It certainly fails in terms of providing cost-efficient services.

An acceptable health care delivery system should have two primary objectives:

(1) enable all citizens to obtain needed health care services; and (2) ensure that services are cost-effective and meet certain established standards of quality. While the U.S. health care delivery system falls short of both these basic ideals, the United States leads the world in providing the latest and the best in medical technology, training, and research. It offers some of the most sophisticated institutions, products, and processes of health care delivery.

Basic Components of a Health Care Delivery System

FIGURE 1-1 illustrates that a health care delivery system incorporates four functional components—financing, ance, delivery, and payment; hence, it is termed a quad-function model. Health care delivery systems differ depending on the arrangement of these components. The four functions generally overlap, but the degree of overlap varies between private and government-run systems, and between traditional health insurance and managed care-based systems. In a government-run system, the functions are more closely integrated and may be indistinguishable. Managed care arrangements also integrate the four functions to varying degrees.

Financing

Financing is necessary to obtain health insurance or to pay for health care services. For most privately insured Americans, health insurance is employment based; that is, the employers finance health care as a fringe benefit for their employees. A

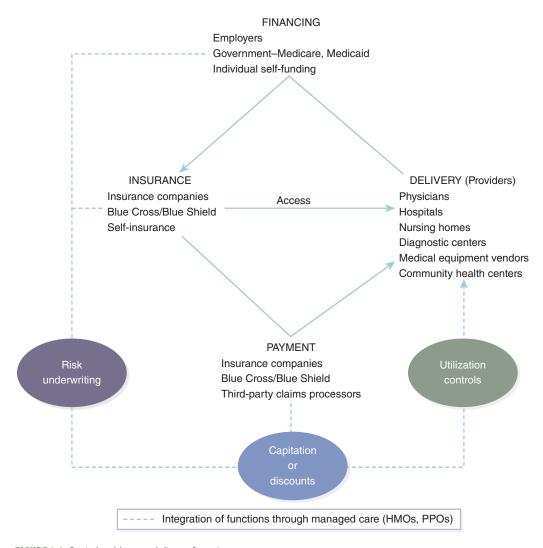


FIGURE 1-1 Basic health care delivery functions.

dependent spouse or children may also be covered by the working spouse's or working parent's employer. Most employers purchase health insurance for their employees through an MCO or an insurance company selected by the employer. Small employers may or may not be in a position to afford health insurance coverage for their employees. In public programs, the government functions as the financier; the insurance function may be carved out to an HMO.

Insurance

Insurance protects the insured against financial catastrophe by providing expensive health care services when needed. The insurance function determines the package of health services that the insured

individual is entitled to receive. It specifies how and where health care services may be received. The MCO or insurance company also functions as a claims processor and manages the disbursement of funds to the health care providers.

Delivery

The term "delivery" refers to the provision of health care services by various providers. The term **provider** refers to any entity that delivers health care services and either independently bills for those services or is supported through tax revenues. Common examples of providers include physicians, dentists, optometrists, and therapists in private practices, hospitals, and diagnostic and imaging clinics, and suppliers of medical equipment (e.g., wheelchairs, walkers, ostomy supplies, oxygen). With few exceptions, most providers render services to people who have health insurance and even those covered under public insurance programs receive health care services from private providers.

Payment

The payment function deals with **reimbursement** to providers for services delivered. The insurer determines how much is paid for a certain service. Funds for actual disbursement come from the premiums paid to the MCO or insurance company. At the time of service, the patient is usually required to pay an out-of-pocket amount, such as \$25 or \$30, to see a physician. The remainder is covered by the MCO or insurance company. In government insurance plans, such as Medicare and Medicaid, tax revenues are used to pay providers.

Insurance and Health Care Reform

The U.S. government finances health benefits for certain special populations, including government employees, the elderly (people ages 65 years and older), people with disabilities, some people with very low incomes, and children from low-income families. The program for the elderly and certain disabled individuals, which is administered by the federal government, is called Medicare. The program for the indigent, which is jointly administered by the federal government and state governments, is named Medicaid. The program for children from low-income families, another federal/state partnership, is called the Children's Health Insurance Program (CHIP).

However, the predominant employment-based financing system in the United States has left some employed individuals uninsured for two main reasons. First, some small businesses simply cannot get group insurance at affordable rates and, therefore, are not able to offer health insurance as a benefit to their employees. Second, in some work settings, participation in health insurance programs is voluntary, so employees are not required to join. Some employees choose not to sign up, mainly because they cannot afford the cost of health insurance premiums. Employers rarely pay 100% of the insurance premium; instead, most require their employees to pay a portion of the cost. This is called premium cost sharing. Self-employed people and other individuals who are not covered by employer-based plans have to obtain health insurance on their own. Individual rates are typically higher than