Delivering Health Care in America
A Systems Approach

SIXTH EDITION

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As of this writing, a few weeks after the health insurance exchanges were opened for enrollment on October 1, 2013, millions of Americans across the nation were beginning to get a first-hand experience with the Affordable Care Act (ACA), nicknamed Obamacare. In a country in which people have been divided almost in the middle on their views, there has been no dearth of speculations on both sides ever since the ACA became law. One side has claimed that the ACA is destined to fail, while the other side has reached the grandiose conclusion that, finally, most Americans will have access to affordable, high-quality health care. We think that such prophetic assertions on both sides are premature. The truth perhaps lies somewhere between the two extremes, but it will not be known for at least a year or two.

Some provisions of the ACA went into effect between 2010 and 2012. They included coverage of children and adults under the age of 26 as dependents under their parents’ health insurance plans, elimination of lifetime dollar limits in health plans, increases in annual caps on health care use, inclusion of preventive services with no out-of-pocket expenses, temporary credits to small employers to offset health insurance costs, certain discounts on drugs for Medicare beneficiaries, and a requirement that health plans spend no less than a certain proportion of the premiums on providing medical care. These mandates, mainly imposed on insurers, were implemented without much ado as most consumers benefited from them. The additional costs were, of course, borne by the insurers. Eventually, however, increased business costs are always passed on to the consumers.

The eventual success or failure of the ACA, or of any other health care reform efforts in the future, will hinge on several factors. Some critical unanswered questions are: Will a large number of young and healthy people enroll through the exchanges to prevent an upward spiral in premium costs, sometimes referred to as a “death spiral?” Will the employment-based health insurance system survive, and, if so, to what extent? Will private insurance companies continue to participate in the government exchanges, or will they hand over the reins to the government at some point? Will the number of providers be sufficient to care for a large influx of the newly insured population? Will Americans have at least the same level of access to health care services that the insured now have, or will access deteriorate for everyone? Will a heavily indebted nation be able to afford the rising levels of
spending without causing serious dislocations in the overall economy? Even though there is uncertainty in these areas, this book attempts to inform the readers on these and many other issues based on what is already known and what some of the trends may be pointing to. In most areas, however, we offer known facts so that the readers can apply their critical thinking skills and draw their own conclusions, pro or con.

Reforms under the new law contain several areas aimed at improving the current health care system. The main areas include a reinvigorated emphasis on prevention; incentives for care coordination; incentives for hospitals to improve quality; enhanced quality reporting requirements; federal assistance to improve the primary care infrastructure, although it is quite inadequate; federal support to authorize “generic” (biosimilar) versions of certain biologics; and insurance coverage for low-income citizens and certain vulnerable groups. These reforms have theoretical bases and precedents so that positive outcomes can be expected in the future.

On the flip side, the ACA has created much confusion, uncertainty, and controversy. For employers, even though the mandate to provide health insurance has been delayed until January 2015, complex reporting requirements will increase business costs. Both large and small businesses are juggling with various options in an effort to find optimum solutions. Eventually, many workers will be left with reduced work hours, unaffordable premiums, without family coverage altogether, or complete loss of a job because of how the ACA has been crafted. As an example of the burden many working Americans are likely to face, researchers at the Kaiser Family Foundation estimated that 3.9 million non-working dependents were in families in which the worker had employment-based coverage but the family did not. These family members would be excluded from getting federal tax credits to subsidize their purchase of health insurance through the government-run marketplaces. On another front, literally millions of Americans have experienced cancellation of their existing privately-purchased health insurance because the policies do not comply with ACA mandates. That these covered individuals were satisfied with their insurance is inconsequential as far as ACA compliance is concerned. The same individuals are finding premiums to be unaffordable when they sign up for coverage through the government-run marketplaces. A last-minute announcement by the Obama administration on November 14, 2013 to allow existing insurance policies to continue for another year under certain conditions seems to have done little to assuage the problem.

The US Supreme Court did not help matters when it upheld half of the law, but let states decide whether they wished to expand their Medicaid programs—as initially intended by the ACA—or opt out. About half the states have opted out, which leaves many vulnerable groups in those states in a state of uncertainty if they are not already covered under Medicaid.

Other issues associated with the ACA include the bulk of the previously uninsured people still to be left without health insurance (estimated to be around 25 to 30 million), uncertain health care costs, experimentation with untested care delivery models that could create dislocations in access and cost, and controversies and legal actions still in place even after the Supreme Court’s ruling that was handed down in June 2012. The latter category includes lawsuits brought by Catholic and other religious
groups based on objections to providing contraceptives mandated by the ACA. On December 31, 2013, US Supreme Court justice, Sonia Sotomayor, an Obama appointee, issued a temporary injunction that blocked the Obama administration from enforcing the birth control mandate for certain Catholic groups. Of course, the Obama administration has objected to Sotomayor’s injunction. According to one report, more than 90 legal challenges have been filed around the country, and the ACA could once again be reviewed by the Supreme Court. In addition, the forthcoming November 2014 congressional elections have some Democrats worried because they voted for the now unpopular ACA. They are trying their best to distance themselves from the ACA. No doubt, the ACA faces turbulent times ahead. Hence, confusion and uncertainty are likely to prevail for some time to come.

New to This Edition

This Sixth Edition has undergone some of the most extensive revisions we have ever undertaken. We have done this while maintaining the book’s basic structure and layout which, for more than 15 years, has served quite well in helping readers both at home and overseas understand the complexities of the US health care delivery system. Some basic elements of US health insurance and delivery are intentionally retained to assist the growing number of foreign students in US colleges and universities, as well as those residing in foreign countries.

The major updates reflect on two main areas: (1) Regardless of its future, the ACA will radically change health care delivery in the United States, for better or for worse. Because of its far-reaching scope, different aspects of the ACA are woven through all 14 chapters (see the Topical Reference Guide to the Affordable Care Act for easy reference). The reader will find a gradual unfolding of this complex and cumbersome law so it can be slowly digested. To aid in this process, every chapter ends with a new feature, “ACA Takeaway,” as an overview of what the reader would have encountered in the chapter. Details of the law are confined to the context and scope of this book. (2) US health care can no longer remain isolated from globalization. An integrative process in certain domains has been underway for some time. Hence, it has become increasingly important to provide global perspectives, which the readers will encounter in several chapters.

As in the past, this edition 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:
  - A basic overview of health care reform and the Affordable Care Act (ACA)
  - Critical global health issues
- Chapter 2:
  - Health insurance under the ACA
  - Measurement of Healthy People 2020 goals
  - Global health indicators
- Chapter 3:
  - E-health and its current applications for consumers
  - New expanded section: Era of Health Care Reform
Chapter 7:
- Primary Care Assessment Tool
- Medical home measurement
- Primary care providers in other countries
- Current developments in home health care
- Current developments in community health centers
- Current developments in alternative medicine
- Global trends in health care providers

Chapter 8:
- New section on hospital utilization and factors that affect hospital employment
- New section on hospital costs

Chapter 9:
- New section on pharmaceutical management as a cost-control mechanism in managed care
- Introduction to triple-option plans
- New section on managed care and health insurance exchanges under the ACA
- Expanded section on accountable care organizations
- New section on payer–provider integration

Chapter 10:
- Limited federal financial incentives to states for additional home- and community-based long-term care services under the ACA
- New model of continuing care at home

Chapter 11:
- The uninsured under the ACA
- Updated information on the homeless
- Updated information on mental health
- Updated information on the chronically ill
- New section on the migrant populations
As in the past, we invite comments from our readers. Communications can be directed to either or both authors:

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- Chapter 12:
  - Current issues in health care cost, access, and quality
  - CMS program related to quality
  - AHRQ quality report card/indicators
  - NCQA and quality measures

- Chapter 13:
  - Current critical policy issues
  - Future health policy issues/challenges in both the US and abroad

- Chapter 14:
  - Expansion of the framework: Forces of Future Change
  - Revised section on the future of health care reform
  - Perspectives on universal coverage and access vs. single-payer system

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.
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AALL—American Association of Labor Legislation
AAMC—Association of American Medical Colleges
AA/PIs—Asian American and Pacific Islanders
AAs—Asian Americans
ACA—Affordable Care Act
ACNM—American College of Nurse-Midwives
ACO—accountable care organization
ACPE—American Council on Pharmaceutical Education
ACS—American College of Surgeons
ADA—American Dental Association
ADA—Americans with Disabilities Act
ADC—adult day care
ADLs—activities of daily living
ADN—associate’s degree nurse
AFC—adult foster care
AFDC—Aid to Families with Dependent Children
AHA—American Hospital Association
AHRQ—Agency for Healthcare Research and Quality
AIANs—American Indians and Alaska Natives
AIDS—acquired immune deficiency syndrome
ALF—assisted living facility
ALOS—average length of stay
AMA—American Medical Association
AMDA—American Medical Directors Association
amfAR—Foundation for AIDS Research
ANA—American Nurses Association
APCs—ambulatory payment classifications
APN—advanced practice nurse
ARRA—American Recovery and Reinvestment Act
ASPR—Assistant Secretary for Preparedness

B
BBA—Balanced Budget Act of 1997
BPCI—bundled payments for care improvement
BPHC—Bureau of Primary Health Care
BSN—baccalaureate degree nurse
BWC—Biological Weapons Convention

C
CAH—critical access hospital
CAM—complementary and alternative medicine
CAT—computerized axial tomography
CBO—Congressional Budget Office
CCAH—continuing care at home
CCIP—Chronic Care Improvement Program
CCRC—continuing care retirement community
List of Abbreviations/Acronyms

CDC—Centers for Disease Control and Prevention
CDSS—clinical decision support systems
CEO—chief executive officer
CEPH—Council on Education for Public Health
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
CIA—Central Intelligence Agency
CMGs—case-mix groups
C/MHCs—Community and Migrant Health Centers
CMS—Centers for Medicare & Medicaid Services
CNA—certified nursing assistant
CNM—certified nurse-midwife
CNSs—clinical nurse specialists
COBRA—Consolidated Omnibus Budget Reconciliation Act of 1985
COGME—Council on Graduate Medical Education
CON—certificate-of-need
COPC—community-oriented primary care
COPD—chronic obstructive pulmonary disease
COTA—certified occupational therapy assistant
COTH—Council of Teaching Hospitals and Health Systems
CPI—consumer price index
CPOE—computerized physician order entry
CPT—current procedural terminology
CQI—continuous quality improvement
CRNA—certified registered nurse anesthetist
CT—computed tomography
CVA—cardiovascular accident

D
DC—doctor of chiropractic
DD—developmentally disabled
DDS—Doctor of Dental Surgery
DHHS—Department of Health and Human Services
DHS—Department of Homeland Security
DMD—doctor of dental medicine
DME—durable medical equipment
DoD—Department of Defense
DO—doctor of osteopathy
DPM—doctor of podiatric medicine
DRA—Deficit Reduction Act of 2005
DRGs—diagnostic-related groups
DSM-IV—Diagnosis and Statistical Manual of Mental Disorders
DTP—diphtheria-tetanus-pertussis

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 Labor Act
ENP—elderly nutrition program
EPA—Environmental Protection Agency
EPO—exclusive provider organization
ERISA—Employee Retirement Income Security Act
ESRD—end-stage renal disease

F
FBI—Federal Bureau of Investigation
FD&C—Federal Food, Drug, and Cosmetic Act
FDA—Food and Drug Administration
FMAP—Federal Medical Assistance Percentage
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<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>FPL</td>
<td>federal poverty level</td>
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<tr>
<td>FQHC</td>
<td>Federally Qualified Health Center</td>
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<tr>
<td>FTE</td>
<td>full-time equivalent</td>
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<tr>
<td>FY</td>
<td>fiscal year</td>
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<tr>
<td>G</td>
<td>General Accounting Office</td>
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<tr>
<td>GATS</td>
<td>General Agreement on Trade in Services</td>
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<tr>
<td>GDP</td>
<td>gross domestic product</td>
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<tr>
<td>GP</td>
<td>general practitioner</td>
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<tr>
<td>HAART</td>
<td>highly active antiretroviral therapy</td>
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<tr>
<td>HCBS</td>
<td>home- and community-based services</td>
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<tr>
<td>HCBW</td>
<td>home- and community-based waiver</td>
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<tr>
<td>HCH</td>
<td>Health Care for the Homeless</td>
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<tr>
<td>HDHP</td>
<td>high-deductible health plan</td>
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<tr>
<td>HEDIS</td>
<td>Health Plan Employer Data and Information Set</td>
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<tr>
<td>HHRG</td>
<td>home health resource group</td>
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<tr>
<td>HI</td>
<td>hospital insurance</td>
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<tr>
<td>HIAA</td>
<td>Health Insurance Association of America</td>
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<tr>
<td>Hib</td>
<td><em>Haemophilus influenzae</em> B</td>
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<tr>
<td>HIO</td>
<td>health information organization</td>
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<tr>
<td>HIPAA</td>
<td>Health Insurance Portability and Accountability Act</td>
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<tr>
<td>HIT</td>
<td>health information technology</td>
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<tr>
<td>HITECH</td>
<td>Health Information Technology for Economic and Clinical Health Act</td>
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<tr>
<td>HIV</td>
<td>human immunodeficiency virus</td>
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<tr>
<td>HMO</td>
<td>health maintenance organization</td>
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<tr>
<td>HMO Act</td>
<td>Health Maintenance Organization Act</td>
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<tr>
<td>HPSAs</td>
<td>health professional shortage areas</td>
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<tr>
<td>HPV</td>
<td>human papillomavirus</td>
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<tr>
<td>HRQL</td>
<td>health-related quality of life</td>
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<tr>
<td>HRSA</td>
<td>Health Resources and Services Administration</td>
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<td>HSA</td>
<td>health savings account</td>
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<td>HSAs</td>
<td>health system agencies</td>
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<td>HTA</td>
<td>health technology assessment</td>
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<td>HUD</td>
<td>Department of Housing and Urban Development</td>
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<tr>
<td>IADL</td>
<td>instrumental activities of daily living</td>
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<tr>
<td>ICD-9</td>
<td>International Classification of Diseases, version 9</td>
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<tr>
<td>ICF</td>
<td>intermediate care facility</td>
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<tr>
<td>ICF/IID</td>
<td>intermediate care facilities for individuals with intellectual disabilities</td>
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<tr>
<td>ICF/MR</td>
<td>intermediate care facilities for mentally retarded</td>
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<tr>
<td>ID</td>
<td>intellectual disability</td>
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<tr>
<td>IDD</td>
<td>intellectually/developmentally disabled</td>
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<tr>
<td>IDEA</td>
<td>Individuals with Disabilities Education Act</td>
</tr>
<tr>
<td>IDS</td>
<td>integrated delivery systems</td>
</tr>
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<td>IDU</td>
<td>injection drug use</td>
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<tr>
<td>IHR</td>
<td>International Health Regulations</td>
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<tr>
<td>IHS</td>
<td>Indian Health Service</td>
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<td>IMGs</td>
<td>international medical graduates</td>
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<tr>
<td>INS</td>
<td>Immigration and Naturalization Service</td>
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<tr>
<td>IOM</td>
<td>Institute of Medicine</td>
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<tr>
<td>IPA</td>
<td>independent practice association</td>
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<td>IPAB</td>
<td>Independent Payment Advisory Board</td>
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<tr>
<td>IRB</td>
<td>Institutional Review Board</td>
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<tr>
<td>IRF</td>
<td>inpatient rehabilitation facility</td>
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<tr>
<td>IRMAA</td>
<td>income related monthly adjustment amount</td>
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<tr>
<td>IRS</td>
<td>Internal Revenue Service</td>
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<td>IS</td>
<td>information systems</td>
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<tr>
<td>IT</td>
<td>information technology</td>
</tr>
<tr>
<td>IV</td>
<td>intravenous</td>
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List of Abbreviations/Acronyms

L
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 Program
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
MFS—Medicare Fee Schedule
MHA—master of health administration
MHS—multihospital system
MHSA—master of health services administration
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
MR/DD—mentally retarded, developmentally disabled
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
MUAs—medically underserved areas

N
NAB—National Association of Boards of Examiners of Long-Term Care Administrators
NADSA—National Adult Day Services Association
NAPBC—National Action Plan on Breast Cancer
NCCAM—National Center for Complementary and Alternative Medicine
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—British National Health Service
NHSC—National Health Service Corps
NIAAA—National Institute of Alcohol Abuse and Alcoholism
NICE—National Institute for Health and Clinical Excellence
NIDA—National Institute on Drug Abuse
NIH—National Institutes of Health
NIMH—National Institute of Mental Health
NP—nurse practitioner
NPC—nonphysician clinician
NPP—nonphysician practitioner
NRA—Nurse Reinvestment Act of 2002
NRP—National Response Plan

O
OAM—Office of Alternative Medicine
OBRA—Omnibus Budget Reconciliation Act
OD—doctor of optometry
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<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tr>
<td>OI</td>
<td>opportunistic infections</td>
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<tr>
<td>OMB</td>
<td>Office of Management and Budget</td>
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<td>OPPS</td>
<td>Outpatient Prospective Payment System</td>
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<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
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<tr>
<td>OT</td>
<td>occupational therapist</td>
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<tr>
<td>OWH</td>
<td>Office on Women’s Health</td>
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<tr>
<td>P</td>
<td>pay-for-performance</td>
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<tr>
<td>PA</td>
<td>physician assistant</td>
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<tr>
<td>PACE</td>
<td>Program of All-Inclusive Care for the Elderly</td>
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<tr>
<td>PAHP</td>
<td>Pandemic and All-Hazards Preparedness Act</td>
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<td>PASRR</td>
<td>Preadmission Screening and Resident Review</td>
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<tr>
<td>PBMs</td>
<td>pharmacy benefits management companies</td>
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<tr>
<td>PCCM</td>
<td>primary care case management</td>
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<tr>
<td>PCGs</td>
<td>primary care groups</td>
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<tr>
<td>PCIP</td>
<td>Pre-Existing Condition Insurance Plan</td>
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<tr>
<td>PCM</td>
<td>primary care manager</td>
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<tr>
<td>PCP</td>
<td>primary care physician</td>
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<tr>
<td>PDAs</td>
<td>personal digital assistants</td>
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<tr>
<td>PDP</td>
<td>stand-alone prescription drug plan</td>
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<tr>
<td>PERS</td>
<td>personal emergency response systems</td>
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<tr>
<td>PET</td>
<td>positron emission tomography</td>
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<tr>
<td>PFFS</td>
<td>private fee-for-service</td>
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<tr>
<td>PharmD</td>
<td>doctor of pharmacy</td>
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<tr>
<td>PhD</td>
<td>doctor of philosophy</td>
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<tr>
<td>PHI</td>
<td>personal health information</td>
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<tr>
<td>PHO</td>
<td>physician–hospital organization</td>
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<tr>
<td>PhRMA</td>
<td>Pharmaceutical Research and Manufacturers of America</td>
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<tr>
<td>PHS</td>
<td>public health service</td>
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<tr>
<td>PMPM</td>
<td>payment per member per month</td>
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<tr>
<td>POS</td>
<td>point-of-service plan</td>
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<tr>
<td>PPD</td>
<td>per-patient day rate</td>
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<td>PPM</td>
<td>physician practice management</td>
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<tr>
<td>PPOs</td>
<td>preferred provider organizations</td>
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<td>PPS</td>
<td>prospective payment system</td>
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<td>PROs</td>
<td>peer review organizations</td>
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<td>PSO</td>
<td>provider-sponsored organization</td>
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<tr>
<td>PSROs</td>
<td>professional standards review organizations</td>
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<tr>
<td>PsyD</td>
<td>doctor of psychology</td>
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<tr>
<td>PTA</td>
<td>physical therapy assistant</td>
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<tr>
<td>PTCA</td>
<td>percutaneous transluminal coronary angioplasty</td>
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<tr>
<td>PTs</td>
<td>physical therapists</td>
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<tr>
<td>Q</td>
<td>quality-adjusted life year</td>
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<tr>
<td>QI</td>
<td>quality indicator</td>
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<tr>
<td>QIOs</td>
<td>quality improvement organizations</td>
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<td>R</td>
<td>research and development</td>
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<tr>
<td>RAI</td>
<td>resident assessment instrument</td>
</tr>
<tr>
<td>RBRVS</td>
<td>resource-based relative value scales</td>
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<tr>
<td>RHIO</td>
<td>Regional Health Information Organization</td>
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<tr>
<td>RICs</td>
<td>rehabilitation impairment categories</td>
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<td>RN</td>
<td>registered nurse</td>
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<td>RUG-III</td>
<td>Resource Utilization Groups, version 3</td>
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<td>RUGs</td>
<td>resource utilization groups</td>
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<td>RVUs</td>
<td>relative value units</td>
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<td>RWJF</td>
<td>Robert Wood Johnson Foundation</td>
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<td>S</td>
<td>Substance Abuse and Mental Health Services Administration</td>
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<td>SARS</td>
<td>severe acute respiratory syndrome</td>
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<tr>
<td>SAV</td>
<td>small area variations</td>
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<td>SES</td>
<td>socioeconomic status</td>
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<td>SHI</td>
<td>socialized health insurance</td>
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<td>SHOP</td>
<td>small business health options program</td>
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<tr>
<td>SMI</td>
<td>supplementary medical insurance</td>
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</table>
List of Abbreviations/Acronyms

SNF—skilled nursing facility
SPECT—single-photon emission computed tomography
SSI—Supplemental Security Income
STDs—sexually transmitted diseases

T
TAH—total artificial heart
TANF—Temporary Assistance for Needy Families
TCU—transitional care unit
TEFRA—Tax Equity and Fiscal Responsibility Act
TFL—TriCare for Life
TPA—third-party administrator
TQM—total quality management

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

V
VA—Department of Veterans Affairs
VBP—value-based purchasing
VHA—Veterans Health Administration
VISN—Veterans Integrated Service Network
VNA—Visiting Nurses Association

W
WHO—World Health Organization
WIC—Special Supplemental Nutrition Program for Women, Infants, and Children
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   General overview of the ACA
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   Social justice orientation of the ACA and its limitations
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   Self-insured employers and HDHP plans
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   Coverage for pre-existing medical conditions
   Coverage for preventive services
   Limits on out-of-pocket costs
   Mandated minimum medical loss ratios
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