Achieving a High-Performance Health Care System with Universal Access: What the United States Can Learn from Other Countries

American College of Physicians*

This position paper concerns improving health care in the United States. Unlike previous highly focused policy papers by the American College of Physicians, this article takes a comprehensive approach to improving access, quality, and efficiency of care. The first part describes health care in the United States. The second compares it with health care in other countries. The concluding section proposes lessons that the United States can learn from these countries and recommendations for achieving a high-performance health care system in the United States. The articles are based on a position paper developed by the American College of Physicians’ Health and Public Policy Committee. This policy paper (not included in this article) also provides a detailed analysis of health care systems in 12 other industrialized countries.

Although we can learn much from other health systems, the College recognizes that our political and social culture, demographics, and form of government will shape any solution for the United States. This caution notwithstanding, we have identified several approaches that have worked well for countries like ours and could probably be adapted to the unique circumstances in the United States.


HEALTH CARE IN THE UNITED STATES

For most Americans, high-quality care generally is readily accessible without long waits but at high cost. However, the uninsured and, increasingly, the underinsured—the poor, and members of underserved minorities—often have poor access to health care and poor health outcomes—in some cases worse than that of residents of developing countries. The health workforce is well trained, yet the United States faces a severe shortage of primary care physicians.

Most Americans—250 million (84.2%)—have some form of health insurance coverage. But an estimated 47 million Americans (15.8%) were uninsured for a year, as reported for 2006 by the U.S. Bureau of the Census (1). A survey by the Centers for Disease Control and Prevention found that 43.6 million people (14.8%) of all ages were uninsured at the time of the National Health Expenditure Survey interview in 2006 (2). However, as many as 89.5 million people under the age of 65 years lacked health insurance for at least 1 month or more during 2006–2007, according to a study by Lewin and associates published by Families USA (3). In addition, another 16 million people can be considered underinsured (4). People without health insurance are much less likely than those with insurance to receive recommended preventive services and medications, are less likely to have access to regular care by a personal physician, and are less able to obtain needed health care services. Consequently, the uninsured are more likely to succumb to preventable illnesses, more likely to suffer complications from those illnesses, and more likely to die prematurely (5, 6).

Even among those with health insurance coverage, wide variations exist within the United States concerning cost, utilization, quality, and access to health care services (7, 8). For example, Medicare spending per capita in 1996 was $8414 per enrollee in the Miami, Florida, region compared with $3341 in the Minneapolis, Minnesota, region (8). Most of the variations among geographic areas are due to differences in the volume and intensity of practice (that is, differences in the quantity of services provided per capita) (7, 8). Yet, patients in high-intensity areas on average have outcomes that are no better, and perhaps worse, than those in geographic areas with lower rates of utilization (9, 10). Americans receive appropriate preventive, short-term, and long-term health care as recommended by professional guidelines only about 55% of the instances in which those recommendations would apply (11). The Institute of Medicine has documented high levels of medical errors and inappropriate and unnecessary care, indicating system-wide problems with delivering consistently high-quality care (12, 13).

Approximately 45% of the U.S. population has a chronic medical condition, and about 60 million people, half of these, have multiple chronic conditions (14). For

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83% of beneficiaries have 1 or more chronic medical conditions and 23% have 5 or more chronic medical conditions (15). By 2015, an estimated 150 million Americans will have at least 1 chronic medical condition (14).

The U.S. health care system has much potential for improvement. Disparities related to race, ethnicity, and socioeconomic status pervade the U.S. health care system (16). In addition to the large numbers of Americans who lack adequate health insurance, the cost, quality, and utilization of health care services vary widely. Meanwhile, the need for long-term care services and care coordination is increasing. Preventive care, cross-discipline coordination, and proactive management of long-term care might reduce the cost of care, but these services often are uncovered or poorly reimbursed.

The Cost of Health Care in the United States

Spending on health care in the United States has been rising at a faster pace than spending in the rest of the economy since the 1960s (Figure 1 [17]). In 2005, national health care spending amounted to approximately $2.0 trillion, or $6697 per person and 16% of the gross domestic product (GDP). By 2015, health care spending is expected to reach $4.0 trillion and amount to 20% of the GDP (18).

A minority of the population generate most health care costs. In every age group in the United States, approximately 8% of the population generates more than 50% of health care spending. The elderly population is particularly vulnerable to increased health care spending (19). Preventive care, cross-discipline coordination, and proactive management of long-term care might reduce the cost of care, but these services often are uncovered or poorly reimbursed.

The Cost of Health Care in the United States

Figure 1. U.S. national health expenditure (NHE) as a share of gross domestic product (GDP) and private and public shares of NHE, selected years 1965–2015.

<table>
<thead>
<tr>
<th>Variable</th>
<th>United States</th>
<th>Australia</th>
<th>Belgium</th>
<th>Canada</th>
<th>Denmark</th>
<th>France</th>
<th>Germany</th>
<th>Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant mortality per 1000 births (2004)</td>
<td>6.8†</td>
<td>5</td>
<td>3.7</td>
<td>5.3†</td>
<td>4.4</td>
<td>3.6</td>
<td>3.9</td>
<td>2.8</td>
</tr>
<tr>
<td>Life expectancy at birth (2004)</td>
<td>77.8†</td>
<td>80.9</td>
<td>79.4†</td>
<td>80.2†</td>
<td>77.9</td>
<td>80.3</td>
<td>79</td>
<td>82</td>
</tr>
<tr>
<td>Population age &gt;65 y (2007), %‡</td>
<td>12.5</td>
<td>13.1</td>
<td>17.4</td>
<td>13.3</td>
<td>15.2</td>
<td>16.4</td>
<td>19.4</td>
<td>20.0</td>
</tr>
<tr>
<td>Obesity rate</td>
<td>32.2†</td>
<td>20.4†</td>
<td>12.7†</td>
<td>18</td>
<td>11.4</td>
<td>9.5†</td>
<td>13.6</td>
<td>3†</td>
</tr>
<tr>
<td>Adult smoking rate</td>
<td>16.9</td>
<td>17.7†</td>
<td>20</td>
<td>17.3</td>
<td>26†</td>
<td>23†</td>
<td>24.3§</td>
<td>26.3 (2006)</td>
</tr>
<tr>
<td>Practicing physicians per 1000 persons</td>
<td>2.4</td>
<td>2.7†</td>
<td>4</td>
<td>2.2†</td>
<td>3.6</td>
<td>3.4</td>
<td>3.4†</td>
<td>2</td>
</tr>
<tr>
<td>Generalists of practicing physicians (2000), %¶</td>
<td>43.6</td>
<td>51.9</td>
<td>NA</td>
<td>47.5</td>
<td>19.1**</td>
<td>48.8</td>
<td>32.7</td>
<td>NA</td>
</tr>
<tr>
<td>Inpatient beds per 1000 persons</td>
<td>2.7</td>
<td>3.6†</td>
<td>4.4</td>
<td>2.9†</td>
<td>3.1†</td>
<td>3.7</td>
<td>6.4</td>
<td>8.2</td>
</tr>
<tr>
<td>MRI units per 1 million persons</td>
<td>26.6†</td>
<td>4.2</td>
<td>6.8</td>
<td>5.5</td>
<td>10.2†</td>
<td>3.2</td>
<td>7.1</td>
<td>40.1</td>
</tr>
<tr>
<td>Per capita health spending, $</td>
<td>6401</td>
<td>3128†</td>
<td>3389</td>
<td>3326</td>
<td>3108</td>
<td>3374</td>
<td>3287</td>
<td>2358†</td>
</tr>
<tr>
<td>Prescription drug spending per capita, $</td>
<td>792</td>
<td>383</td>
<td>344</td>
<td>559</td>
<td>270</td>
<td>NA</td>
<td>438</td>
<td>425</td>
</tr>
<tr>
<td>Drug spending as % of total health, $</td>
<td>12.4</td>
<td>13.3</td>
<td>11.3</td>
<td>17.8 (2006)</td>
<td>8.9</td>
<td>16.4</td>
<td>15.2</td>
<td>19†</td>
</tr>
</tbody>
</table>

† Latest available data: 2004.
§ Latest available data: 2003.
** The low percentages of generalist physicians reported for Denmark and the Netherlands compared with other countries may be due to different methods for collecting and reporting workforce data. Further research is needed to better understand these apparent discrepancies.
health insurance protection rose to almost 16% (23). The average annual premium for employer-sponsored family health insurance increased from $6772 to $10,728 (58%) between 2000 and 2005. During the same period, the average annual premium cost for single-person coverage increased from $2655 to $3991 (50%). Premiums increased 60% for employees over the 5-year period, from $1614 to $2585 (24). As health insurance premiums have risen, employers have reduced their costs by decreasing or dropping coverage or benefits, shifting to managed care plans, adopting pharmacy benefit management plans, and increasing the extent of cost sharing between employer and employee.

From 1999 to 2003, the percentage of workers enrolled in employer-sponsored health plans that required cost-sharing of hospital bills increased from 33.8% to 54.7%, an increase of more than 60%, and the proportion of workers subject to copayments greater than $10 for physician visits more than doubled (25). In 2005, 76.7% of nonfederal employees enrolled in employer-sponsored health insurance paid a copayment for doctor visits. The average copayment was $18.20 (26). Copayments deter some insured people from obtaining needed care (27). In addition, high health insurance costs deter employers who do not provide health insurance from buying coverage for their employees and make it nearly impossible for most uninsured people to buy more expensive individual policies on their own (28).

Despite the growing need for coordination of health care services, government and private insurers pay for health care services primarily on an episodic, visit-related basis with few, if any, incentives for providing comprehensive, coordinated, and continuous care for the prevention and management of chronic illness. Primary care physicians now spend about 20% of their time in unreimbursed coordination of care tasks using the telephone or e-mail (29). Unless changes are made in payment policy to compensate for these services, disincentives for care coordination will continue while the need will increase.

### Government Programs

Government pays 46% of all U.S. health care costs through public programs. Medicare pays 17%, Medicaid and the State Children’s Health Insurance Program (SCHIP) account for 16%, and other public programs (such as Veterans Health Administration, Department of Defense, workers’ compensation, and public health) pay 13%. Despite repeated attempts to rein in federal expenditures for Medicare and Medicaid, federal expenditures have continued to increase much faster than inflation in the entire economy (30).

**Medicare**

Currently, approximately 42.5 million Americans are covered by the Medicare program: 35.6 million because of eligibility based on age and 6.7 million because of disability, including those being treated for end-stage renal dis-

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**Table 1—Continued**

<table>
<thead>
<tr>
<th>Country</th>
<th>Netherlands</th>
<th>New Zealand</th>
<th>Switzerland</th>
<th>United Kingdom</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.9</td>
<td>5.1</td>
<td>4.2</td>
<td>5.1</td>
<td></td>
</tr>
<tr>
<td>79.4</td>
<td>79</td>
<td>81.3</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>14.2</td>
<td>11.8</td>
<td>15.6</td>
<td>15.8</td>
<td></td>
</tr>
<tr>
<td>10.7</td>
<td>20.96</td>
<td>7.7</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>22.5</td>
<td>26.8</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>3.7†</td>
<td>2.2</td>
<td>3.8</td>
<td>2.4†</td>
<td></td>
</tr>
<tr>
<td>14.3**</td>
<td>69.2</td>
<td>50.7</td>
<td>31.8</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>61</td>
<td>3.6</td>
<td>3.1</td>
<td></td>
</tr>
<tr>
<td>5.6</td>
<td>3.7§</td>
<td>14.4</td>
<td>5.4</td>
<td></td>
</tr>
<tr>
<td>3094†</td>
<td>2343</td>
<td>4177</td>
<td>2724</td>
<td></td>
</tr>
<tr>
<td>318</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>11.5†</td>
<td>12.4</td>
<td>10.4</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

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immediately 10% of the population incurs 60% to 70% of the costs. People with large medical care costs are often chronically ill, disabled, or poor. Our society’s inability to provide continuous, coherent patient-centered care for this group of individuals is one cause of the high aggregate cost of health care and contributes to the cost of public insurance programs. Patients who enter Medicare without previous insurance but with chronic illness will be sicker and more disabled and therefore more costly to that government program (5, 19).

### Paying for Health Care in the United States

While private funds accounted for approximately 50% ($1085.0 billion) of the aggregate U.S. national health care expenditures ($1987.7 billion) in 2005, private insurance paid for only 35% ($694.4 billion). Likewise, private insurance paid 35% ($596.7 billion) of personal health care expenses ($1661.4 billion), the costs of therapeutic goods or services rendered to treat or prevent specific diseases or conditions of individuals (20).

Health insurance premiums increased 8.8% in 2005, declining from a peak yearly rate of increase of 13.7% in 2002. From 2000 to 2005, premiums for family coverage decreased by 73%, compared with inflation growth of 14% and wage growth of 15%. The average annual premiums for employer-sponsored coverage rose to $4024 for single-person coverage and $10,880 for family coverage (21).

The major components of U.S. health care spending (Figure 2) are hospitals (30%), physician and clinical services (21%), pharmaceuticals (10%), and other spending (25%) (22). Table 1 shows comparable data for some of these key components for other countries.

Employer-based health insurance has been the basis for paying for health services since 1940, but it is fast eroding under the pressure of relentlessly rising costs of care. The proportion of people with employer-based health insurance coverage dropped from 63.6% in 2000 to 59.7% in 2006. Correspondingly, the percentage of people with government insurance, including Medicare, Medicaid, and military health care, increased from 24.7% in 2000 to 27.0% in 2006, and the percentage of people without any...
Part D drug coverage. These plans receive capitated payments from Medicare and often restrict covered services to provider networks, such as preferred-provider organizations, health maintenance organizations, and private fee-for-service plans.

Under the traditional Medicare program, doctors, other providers, and suppliers receive payments according to schedules that set the maximum fees that Medicare will reimburse. Beneficiaries in the original program—still by far the largest component of Medicare—must pay annual deductibles and co-insurance or copayments for covered services and supplies.

In 2006, Medicare prescription drug coverage became available as Medicare Part D. All Medicare beneficiaries are eligible to enroll in Part D. Coverage is provided through private insurance companies, and enrollment is voluntary. Beneficiaries must pay monthly premiums. Previously, many Medicare beneficiaries purchased private supplemental insurance (Medigap) to obtain coverage for prescription drugs. However, following implementation of Medicare Part D, insurers are not offering new Medigap policies covering prescription drugs (32).

**Medicaid**

The Medicaid program provides medical benefits to over 52 million people who meet categorical eligibility standards. It covers about 25% of U.S. children (21 million), and supplements Medicare coverage for 7 million elderly and disabled people. Children account for almost half of the enrollees, but 70% of the expenditures are for care of elderly (25%) and disabled (45%) adults (33).

The federal government and the states share responsibility for funding Medicaid. In 2005, Medicaid spending, exclusive of SCHIP, amounted to $313 billion, with federal funds accounting for about $179 billion (57%) and state funds accounting for approximately $134 billion (43%). The federal share for each state ranged from 50% to 77%, depending on average personal income in each state (34).

SCHIP was enacted in 1997 to expand health coverage for children in families with incomes that are low but above the level for Medicaid eligibility. By 2005, about 4.2 million children were covered by the program. SCHIP is jointly financed by the federal and state governments but is administered by the states. In 2005, total expenditures for SCHIP were $5.5 billion, with the federal government providing $3.8 billion (69%) and state governments funding $1.7 billion (31%) (31). Legislative authorization for SCHIP expired on 30 September 2007. Disagreement between President Bush and Congress on funding and eligibility has led the President to veto legislation to reauthorize the program, and to date there have been insufficient votes in the House of Representatives to override a veto. In the
The Veterans Administration (VA) provides a range of benefits and services to about 5.5 million eligible veterans and their dependents, primarily by salaried physicians working in government-owned facilities. The VA is a single-payer system that may provide some important lessons for the rest of the U.S. health care system.

The VA operates 156 hospitals, 135 nursing homes, 43 residential rehabilitation treatment centers, and 711 community-based outpatient clinics. It is the nation’s largest integrated direct health care delivery system. The VA facilities are affiliated with 107 of the nation’s 126 medical schools and 1200 other health professions schools. Veterans who are disabled because of a service-related injury or illness have first priority for access to VA health care. Other veterans have access depending on annual discretionary appropriations by Congress. Funds are allocated to geographic regions that typically contain several hospitals. If funding runs out before the end of a fiscal year, services are curtailed.

In the mid-1990s, the VA responded to criticism of deficiencies in VA health care by adopting a system-wide reorganization. Reforms included modernization of facilities, reorganization and decentralization, reduction of inpatient capacity, and reallocation of greater resources to ambulatory care. The VA developed patient data registries, an electronic medical record (EMR) system, and a commitment to improving quality and patient safety. Reforms included adoption of a performance-based incentive system and other measures to improve quality, and increased emphasis on primary care, preventive services, and case management for long-term care. As a result, the VA has become a leader in developing a coordinated system of care and health care quality improvement. Comparisons of VA patients with a national sample show that VA patients receive higher quality of care, with highest quality in areas where the VA actively monitors performance. The VA patients received higher-quality long-term and preventive care than Medicare patients, particularly for such diseases as diabetes. The VA’s reorganization and placement of greater emphasis on outpatient primary care has resulted in better access to care for veterans who have had trouble accessing care in the private sector. The VA is also a leader in providing comprehensive rehabilitation services for spinal cord injuries, for which it integrates vocational, psychological, and social services within a continuum of care that involves a team-based approach.

The VA has managed prescription drug costs astutely. The VA relies on a formulary that encourages the use of generic and lower-cost drugs. Costs are also reduced by combining purchasing power with the Department of Defense to jointly purchase drugs and by using a highly automated mail order system that dispenses more than three fourths of all VA prescriptions. One recent study found that the prices paid for drugs most often used by seniors under the Medicare Part D drug plan are 60% higher than prices paid for the same drugs by the VA. However, critics contend that comparing drug costs in the VA and Medicare is unfair because the VA is a closed system, with drugs restricted to a formulary and dispensed only through the mail or at government-owned pharmacies. They also note that the drugs approved for the formulary are typically older than those generally available. The VA formulary contains only 38% of drugs approved by the U.S. Food and Drug Administration in the 1990s and 19% of drugs approved since 2000. One study indicates that using older drugs is associated with a 2-month shorter life expectancy worth $25,000 in economic value.

The success of the VA system in dramatically restructuring itself indicates that major gains can be achieved in the United States in improving health care access and quality while reducing costs. Although reforms may be more readily achievable in a closed single-payer system, such as the VA, the VA experience provides some key lessons for improving health care system performance. These lessons include shifting services to outpatient care, placing greater emphasis on primary and preventive care, facilitating case management for long-term care, adopting information technology and a system-wide EMR, use of performance measurement, and controlling prescription drug costs.

Out-of-Pocket Spending

Individuals in the United States pay 13% of all health care costs out of pocket. Rising costs create an especially severe financial burden for individuals who must pay health care costs out of pocket. Rising health care costs also contribute to increased personal debt and bankruptcy rates. In 2001–2002, nearly 1 in 6 families (27 million) spent 10% or more of their income (5% or more if low-income) on out-of-pocket medical costs. One response to rising health care costs has been the adoption of consumer-directed health plans in which the individual takes greater responsibility for paying for care out of pocket, rather than the employer or government. Increased cost sharing is one means to encourage patients to be more cost conscious and to use health services more judiciously. Unfortunately, for those with modest incomes, cost sharing has reduced medically necessary care, such as taking medicines for hypertension.

Physician Workforce

The United States is in the midst of a primary health care workforce crisis that is expected to worsen precipitously in the next decade. The population is aging, and baby boomers, the largest subcohort of the population, will soon be over age 65 years and at greater risk for needing care for chronic conditions. Yet, the United States currently does not have national policies to guide the training, supply, and distribution of health care providers to...
meet future needs for particular specialties of medicine, such as primary care.

Primary care physicians are leaving practice sooner than other physician specialists at the same time that the numbers of medical students and residents choosing to pursue careers in primary care are declining rapidly. The U.S. primary care workforce is undergoing a gradual but inexorable contraction that will seriously affect access to care (48). The long-term result will be higher costs, lower quality, diminished access, and decreased patient satisfaction (49). The health care system will become increasingly fragmented, overspecialized, and costly.

Technology and Innovation

Technological innovation is a hallmark of U.S. medicine. Anyone in the United States with adequate insurance or the ability to pay has access to the latest clinically effective technology with little or no waiting time (49). The United States has no effective public policies to restrain the spread of technology, which often occurs before adequate evaluation of its effectiveness. Even when research shows that technology is ineffective for some groups of patients, translating these research findings into more selective decision making often proceeds slowly, requires educational efforts to promote best practices, and encounters resistance from practitioners.

Diffusion of new technology into practice is associated with greater per capita utilization and higher spending (50). Technological progress accounts for a large share of the rise in U.S. health care expenditures (51). Many new biotechnology products (for example, monoclonal antibodies against tumor necrosis factor) are very effective but also extremely expensive when taken regularly for chronic diseases, such as arthritis.

The United States also lacks centralized authority for coordinating assessments of the clinical effectiveness or cost-effectiveness of new technology. Instead, technology assessments are conducted by various public and private organizations, including the Agency for Healthcare Research and Quality (AHRQ), the Medicare Coverage Advisory Committee, Blue Cross/Blue Shield, and the VA. Evaluations of clinical effectiveness and determinations of best practices are also made by professional organizations, such as the American College of Physicians (ACP), the American College of Cardiology, the American Heart Association, and others. This pluralistic system leads to large-scale duplication of efforts to provide evidence-based guidance to good medical practice. This duplication of effort is not necessary. At least 45 agencies in 22 countries, including AHRQ for the United States, share technology assessment information through the International Network of Agencies for Health Technology Assessment.

The pluralistic health care system in the United States does not have effective ways of controlling the use of health technology. Health insurance plans and health maintenance organizations are free to base coverage decisions on any available evaluations, to make their own assessments or purchase them from private companies, or to ignore research findings. Likewise, physicians, hospitals, and patients are free to order or utilize health care technology regardless of whether it is clinically effective or cost-effective.

The Performance of the U.S. Health Care System Criteria for a Well-Functioning System

The Commonwealth Fund has developed a set of criteria for comparing and evaluating health care systems. In July 2005, it established an 18-member Commission on a High Performance Health System to chart a course for advancing promising strategies for health system improvement (52). The Commission identified 37 indicators of “high performance” for measuring health systems (Table 2). It aggregated performance indicators into broad categories to measure and monitor health care outcomes. The Commission used these indicators to identify top-performing health systems to use as benchmarks against which to compare health care systems.

The Commission then issued a national score card. The U.S. scores on 6 categories of system performance ranged from 51 to 71 on a scale in which systems with the best scores were used as benchmarks and were rated at 100. Overall, the U.S. health care system received a score of 66 (53).

The U.S. composite scores for each of the 6 categories are listed after each category: long, healthy, and productive lives: 69; quality: 71; access: 67; efficiency: 51; equity: 71; capacity to innovate and improve: not scored.

Commonwealth Fund Commission Key Indicators for Measuring Performance

Long, Healthy, and Productive Lives. The Commonwealth Fund Commission defined the overarching mission of a high-performance health care system as being “to help everyone, to the extent possible, lead long, healthy, and productive lives.” All performance indicators reflect on a system’s ability to achieve this goal. Specific measures of health outcomes for this indicator include high life expectancy, low preventable mortality, low infant mortality, and low proportions of adults with limitations on their activities. The United States ranked last overall on all 3 indicators of healthy lives. The U.S. infant mortality rate is 7.0 deaths per 1000 live births, compared with 2.7 in the top 3 countries.

Quality. A well-functioning, high-performance health care system would provide care that is necessary, appropriate, and of high quality. Care would be provided in accord with evidence of clinical effectiveness and with a minimum of avoidable errors. Indicators of high quality include provision of preventive care services, management of chronic diseases, care coordination, provision of patient-centered care, low nursing home admission and readmission rates, low instances of medical errors, and low preventable death rates. The United States scored well on the provision of...
### Table 2. National Scorecard on U.S. Health System Performance*

<table>
<thead>
<tr>
<th>Indicator</th>
<th>U.S. National Rate</th>
<th>Benchmark</th>
<th>Benchmark Rate</th>
<th>Score: United States Compared with Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mortality amenable to health care, deaths per 100 000 population</td>
<td>115</td>
<td>Top 3 of 19 countries</td>
<td>80</td>
<td>70</td>
</tr>
<tr>
<td>Infant mortality, deaths per 1000 live births</td>
<td>7.0</td>
<td>Top 3 of 23 countries</td>
<td>2.7</td>
<td>39</td>
</tr>
<tr>
<td>Healthy life expectancy at age 60 y</td>
<td>16.6</td>
<td>Top 3 of 23 countries</td>
<td>19.1</td>
<td>87</td>
</tr>
<tr>
<td>Adults &lt;65 y limited in any activities because of physical, mental, or emotional problems, %</td>
<td>14.9</td>
<td>Top 10% states</td>
<td>11.5</td>
<td>77</td>
</tr>
<tr>
<td>Children missed 11 or more school days due to illness or injury, %</td>
<td>5.2</td>
<td>Top 10% states</td>
<td>3.8</td>
<td>73</td>
</tr>
<tr>
<td>Adults received recommended screening and preventive care, %</td>
<td>49</td>
<td>Target</td>
<td>80</td>
<td>61</td>
</tr>
<tr>
<td>Children received recommended immunizations and preventive care†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>85</td>
</tr>
<tr>
<td>Needed mental health care and received treatment‡</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>66</td>
</tr>
<tr>
<td>Chronic disease under control</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>61</td>
</tr>
<tr>
<td>Hospitalized patients received recommended care for AMI, CHF, and pneumonia (composite), %</td>
<td>84</td>
<td>Top hospitals</td>
<td>100</td>
<td>84</td>
</tr>
<tr>
<td>Adults &lt;65 y with accessible primary care provider, %</td>
<td>66</td>
<td>65+y, high income</td>
<td>84</td>
<td>79</td>
</tr>
<tr>
<td>Children with a colorectal cancer, %</td>
<td>46</td>
<td>Top 10% states</td>
<td>60</td>
<td>77</td>
</tr>
<tr>
<td>Care coordination at hospital discharge†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>70</td>
</tr>
<tr>
<td>Nursing homes: hospital admissions and readmissions among residents†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>64</td>
</tr>
<tr>
<td>Home health: hospital admissions, %</td>
<td>28</td>
<td>Top 25% agencies</td>
<td>17</td>
<td>62</td>
</tr>
<tr>
<td>Patients reported medical, medication, or laboratory test error, %</td>
<td>34</td>
<td>Best of 6 countries</td>
<td>22</td>
<td>65</td>
</tr>
<tr>
<td>Unsafe drug use</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>60</td>
</tr>
<tr>
<td>Nursing home residents with pressure sores†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>67</td>
</tr>
<tr>
<td>Hospital-standardized mortality ratios, actual to expected deaths</td>
<td>101</td>
<td>Top 10% hospitals</td>
<td>85</td>
<td>84</td>
</tr>
<tr>
<td>Ability to see doctor on same/next day when sick or needed medical attention, %</td>
<td>47</td>
<td>Best of 6 countries</td>
<td>81</td>
<td>58</td>
</tr>
<tr>
<td>Very/somewhat easy to get care after hours without going to the emergency department, %</td>
<td>38</td>
<td>Best of 6 countries</td>
<td>72</td>
<td>53</td>
</tr>
<tr>
<td>Doctor–patient communication: always listened, explained, showed respect, spent enough time, %</td>
<td>54</td>
<td>90th percentile Medicare plans</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>Adults with chronic conditions given self-management plan, %</td>
<td>58</td>
<td>Best of 6 countries</td>
<td>65</td>
<td>89</td>
</tr>
<tr>
<td>Patient-centered hospital care†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>87</td>
</tr>
<tr>
<td>Adults &lt;65 y insured all year, not underinsured, %</td>
<td>65</td>
<td>Target</td>
<td>100</td>
<td>65</td>
</tr>
<tr>
<td>Adults with no access problem due to costs, %</td>
<td>60</td>
<td>Best of 5 countries</td>
<td>91</td>
<td>66</td>
</tr>
<tr>
<td>Families spending &lt;10% of income or &lt;5% of income, if low income, on out-of-pocket medical costs and premiums, %</td>
<td>83</td>
<td>Target</td>
<td>100</td>
<td>83</td>
</tr>
<tr>
<td>Population &lt;65 y living in states where premiums for employer-sponsored health coverage are &lt;15% of under-65 median household income, %</td>
<td>58</td>
<td>Target</td>
<td>100</td>
<td>58</td>
</tr>
<tr>
<td>Adults &lt;65 y with no medical bill problems or medical debt, %</td>
<td>66</td>
<td>Target</td>
<td>100</td>
<td>66</td>
</tr>
<tr>
<td>Potential overuse or waste†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>48</td>
</tr>
<tr>
<td>Went to emergency department for condition that could have been treated by regular doctor, %</td>
<td>26</td>
<td>Best of 6 countries</td>
<td>6</td>
<td>23</td>
</tr>
<tr>
<td>Hospital admissions for ambulatory care–sensitive conditions†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>57</td>
</tr>
<tr>
<td>Medicare hospital 30-day readmission rates, %</td>
<td>18</td>
<td>10th percentile regions</td>
<td>14</td>
<td>75</td>
</tr>
<tr>
<td>Medicare annual costs of care and mortality for AMI, hip fracture, and colon cancer, annual Medicare outlays in $, deaths per 100 beneficiaries</td>
<td>26 829; 30</td>
<td>10th percentile regions</td>
<td>23 314; 27</td>
<td>88</td>
</tr>
<tr>
<td>Medicare annual costs of care for chronic diseases: diabetes, CHF, COPD†</td>
<td>Various</td>
<td>Various</td>
<td>Various</td>
<td>68</td>
</tr>
<tr>
<td>Percentage of national health expenditures spent on health administration and insurance, %</td>
<td>7.3</td>
<td>Top 3 of 11 countries</td>
<td>2.0</td>
<td>28</td>
</tr>
<tr>
<td>Physicians using electronic medical records, %</td>
<td>17</td>
<td>Top 3 of 19 countries</td>
<td>80</td>
<td>21</td>
</tr>
<tr>
<td>Overall score</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>66</td>
</tr>
</tbody>
</table>


† “Various” denotes indications that make up ≥2 related measures. Scores average the individual ratios for each component. For detailed information on the national and benchmark rates for individual components, please refer to Schoen C, Davis K, How SK, Schoenbaum SC. U.S. health system performance: a national scorecard. Health Aff (Millwood). 2006;25:w457-75. Epub 2006 Sep 20. [PMID: 16987933].

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preventive care but received low scores on long-term care management, safe care, and patient-centered care. For overall quality, the United States ranked fifth and Canada ranked sixth.

Access. In a high-performance health care system, needed health care services would be readily accessible to all members of the population. Measures of access include health insurance coverage, ability to see a physician and obtain needed medical attention, families spending less than 10% of income on out-of-pocket medical costs and premiums (5% if low income), ease of obtaining after-hours care, short waiting times for doctor appointments, and a minimal number of patients with problems with medical bills or high medical debts. With 47 million uninsured, the United States ranked last on access. However, the report noted that insured patients in the United States have rapid access to specialized care. Overall, Germany ranked first on access.

Efficiency. A well-functioning system would have low rates of overuse, inappropriate use, or waste; minimal expenditures for administrative and regulatory cost; and use of information tools (for example, health information technology and EMRs) to support efficient care. Of the 6 countries compared, the United States ranked last in terms of efficiency. The Commonwealth Fund Commission found that the United States had poor performance in terms of measures of national health expenditures, administrative costs, the use of information technology, and the use of multidisciplinary teams. It noted that “the US lags well behind other nations in the in the use of electronic medical records: 17 percent of U.S. doctors compared with 80 percent in the top three countries” (53).

Equity. Measures of equity in the health care system reflect differences based on income, insurance status, and geography (urban versus rural), as well as differences among population groups based on age, sex, race, and ethnicity. A well-functioning system would have minimal differences among groups in terms of access to and quality of health care services. The United States also ranked last on measures of equity, particularly because of inequities in access and quality based on income. The Commonwealth Fund Commission noted that there is a wide gap between low-income or uninsured populations and those with higher incomes and insurance. It also considered disparities among racial and ethnic groups and concluded that “Overall, it would require a 24% or greater improvement in African-American mortality, quality, access and efficiency indicators to approach benchmark white rates” (53).

Capacity to Innovate and Improve. A system’s ability to innovate and improve is a crucial element for attaining high performance. The Commonwealth Fund Commission did not identify specific indicators or scores for this element. Measures could include investments in research (clinical, technological, pharmaceutical, and health services research) and having a health care infrastructure that fosters innovation. This indicator could also include having an infrastructure and workforce planning capacity to assure sufficient numbers of appropriately trained physicians and other health care professionals.

The Commonwealth Fund Commission’s data indicate that the U.S. health care system has much room for improvement. The Commission concluded that

The Scorecard results make a compelling case for change. Simply put, we fall far short of what is achievable on all major dimensions of health system performance. The overwhelming picture that emerges is one of missed opportunities—at every level of the system—to make American health care truly the best that money can buy (53).

The Commonwealth Fund Commission estimated that closing the gaps between actual and achievable performance as measured by its scorecard could save at least $50 billion to $100 billion per year in health care spending and could prevent 100,000 to 150,000 deaths per year (53). In addition, it cited the Institute of Medicine’s estimate that the nation could achieve economic savings of up to $130 billion per year from insuring the uninsured (54).

Clearly, the evaluations and comparisons by the Commonwealth Fund Commission indicate that the U.S. health care system must improve considerably to achieve the performance levels attained by health care systems in other countries. The next section of this article contains a detailed comparison of health care systems in the United States and other countries.

The U.S. Health Care System Compared with That in Other Countries

Difficulties with Comparing Health Care in Different Countries

Although many individuals in the United States receive exemplary health care, international comparisons on most key indicators of the public’s health have shown that the United States has poorer health outcomes in the aggregate than many other industrialized countries. However, comparing health data from different countries can be difficult because differences in health outcomes may also reflect economic, demographic, social, and cultural factors. International comparisons by definition involve national averages and fail to recognize wide variations within such countries as the United States, in which, for example, public spending on health varies from $59 per capita in Iowa to $499 per capita in Hawaii and infant mortality rates range from 4.7 deaths per 1000 births in Massachusetts to 10.1 in Mississippi (55). International comparisons are subject to error because of differences in the way countries define, report, and interpret data. Also, the growing practice of cross-national travel for health care—European Union (EU) citizens can now receive care anywhere within the EU—makes it difficult to attribute health outcomes to health care in one country. These caveats notwithstanding,
the ACP believes that the United States has much to learn by closely examining how other countries’ health care systems tried to solve the problems that underlie the United States’ low-ranking performance relative to its per capita national health care expenditures, which rank first among nations.

In the past, data for these comparisons generally were limited to such indicators of health status as life expectancy and infant mortality and national health expenditures. In 2001, the Organization for Economic Co-operation and Development (OECD) began a project to measure and compare health care quality among countries (56). In 2005, the OECD and the World Health Organization agreed to compile data on countries in the EU and other industrialized countries. This international benchmarking project uses international standards and definitions, verifies data, and develops uniform methodological guidelines. Valid comparative data will enable researchers to better understand how major changes to health care delivery affect health care quality (57). All nations stand to learn from the OECD health care project.

Expenditures for Health Care Services

The United States spends a greater share of its GDP on health care than any other country. Data for 2005 from the OECD for its 30 member countries show that although the United States spent 15.3% of its GDP on health care, other industrialized countries were spending 8% to 11%, with an average of 9.0% (58). Table 1 shows that the United States spent $6401 per capita on health in 2005, far more per person than any other country. Switzerland, with the next highest per capita health spending, spent only two thirds as much, $4177 per person. Other industrialized countries, including Canada, France, Germany, Japan, and the United Kingdom, spent about half as much per capita as the United States (59).

The reasons for these differences are not easily understood. Despite far greater expenditures, the volume of medical services (for example, physician and hospital visits) used by U.S. residents is roughly comparable to that of the other 29 OECD countries. In 1996, only 12% of the U.S. population was hospitalized per year, compared with 16% on average in OECD countries. The United States has fewer inpatient hospital beds per 1000 people, but hospital stays are generally shorter and less frequent in the United States. The differences in total and per capita expenditures appear to be due primarily to higher prices in the United States and greater intensity of services, including greater use and earlier dispersion of technology (60).

As a wealthy nation, the United States can devote a greater share of its national income on health care than can other countries. As wealth increases, individuals and society as a whole have greater means to purchase health care services, including services that in other countries might be considered discretionary or luxuries. Consequently, the United States adopts and disperses new medical technology, such as computed tomography, magnetic resonance imaging, neonatal intensive care units, cardiac and coronary artery bypass grafting, angioplasty, and positron emission tomography, more readily and more rapidly than other countries (50). Although the United States produces and consumes more goods and services than any other country, resources still are limited and greater spending on health care will mean that less is available for other high-priority items, such as housing, education, and national defense, or will contribute to the escalation of the public debt.

Administrative and Regulatory Costs

Differences in the definitions of administrative costs and methods for measuring them have resulted in widely differing estimates. For example, one study (61) estimated administrative and regulatory costs to be 31.0% of health care expenditures in the United States ($1059 per capita), as compared with Canada’s rate of 16.7% ($307 per capita). However, OECD data for 2003 (Figure 3 [62]) indicate that the United States spent 7.3% of total national health expenditures on health administration and insurance costs; Germany spent 5.6%, and Canada spent 2.6%.

Studies performed by the Centers for Medicare & Medicaid Services (CMS) show that gross administrative overhead for private U.S. health insurance was 14.3% in 2005 (18). The CMS data show that administrative costs for the 42 million enrollees covered by Medicare Part A (hospital insurance) were less than 1.6% of disbursements and were under 2.1% for the 40 million enrollees in Medicare Part B (supplemental medical insurance). The CMS reported that combined state and federal administrative costs for Medicaid were less than 1% of disbursements (18). While the estimates differ, they all show that administrative costs of private for-profit insurance plans in the United States are higher than those of Canada, other coun-

---

Table 1

<table>
<thead>
<tr>
<th>Country</th>
<th>Administrative Costs (% of GDP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>15.3</td>
</tr>
<tr>
<td>Other industrialized countries</td>
<td>8% to 11%</td>
</tr>
</tbody>
</table>

---

Figure 3. Percentage of national health expenditures spent on health administration and insurance, 2003.

---

Source: Commonwealth Fund National Scorecard on U.S. Health System Performance: Complete Chartpack (62) (www.commonwealthfund.org). *Data from 2002. †Data from 1999. ‡Data from 2001. $Includes claims administration, underwriting, marketing, profits, and other administrative costs; based on premiums minus claims expenses for private insurance.
tries, and nonprofit government programs in the United States. The differences reflect the added administrative costs incurred in the United States by private insurance companies for advertising, marketing, collecting premiums, and profits.

Out-of-Pocket Costs

In the United States, out-of-pocket spending by patients accounts for 13.2% of total health care spending, a figure that is less than the 14.9% share in Canada. Although the Canadian national health program does not have cost sharing for covered health care services, Canada does not cover prescription drugs provided outside of hospitals. Figure 4 shows that out-of-pocket spending in the United States also accounts for a smaller share of total health spending than in most other OECD countries, for which the average is 19.8. However, out-of-pocket expenditures in the United States are still higher in absolute terms compared with other countries. Differences in cost-sharing requirements and covered services in insurance plans account for much of these differences among countries (63).

Quality and Outcomes of Health Care in Different Countries

Recent surveys of patient care experiences and patient ratings of various dimensions of care in the United States and 5 other countries (Australia, Canada, New Zealand, the United Kingdom, and Germany) show that patients rank the U.S. health care system lower than health systems of other countries on several key measures. People in these countries, whose physician workforces have a larger proportion of primary care physicians than the United States, see less need for a complete rebuilding of their health care systems, find their regular physicians’ advice to be helpful, and feel that they receive coordinated care. As Figure 5 shows, the United States had the poorest overall ranking and poorest rating on safe care, access, efficiency, equity, and healthy lives (64). Of 51 indicators of quality of care, the United States ranked first on only 6 indicators, including effectiveness of care, but last or tied for last on 27 (65).

Table 1 compares some key health statistics for selected countries. Measures of health (life expectancy at birth, infant mortality, and deaths per 100 000 for diseases of the respiratory system and for diabetes) indicate that health in the United States is no better than in other industrialized countries, and in many cases is clearly worse, despite the higher level of U.S. expenditures (58).

Some Health System Characteristics That May Explain International Differences in Health System Performance

Commitment to Primary Care

Most strongly performing health care systems have strong primary care. Indeed, it is at the center of these countries’ systems. Strong primary care systems and practice characteristics are associated with improved population health. Systems that enhance the provision of primary health care are associated with better overall mortality rates, including premature death from asthma and bronchitis, emphysema and pneumonia, and cardiovascular disease (66). Access to primary care also is associated with a more equitable distribution of health in populations (67). Yet, the United States is in the midst of a primary health care workforce crisis and may not have a sufficient supply of primary care physicians to meet future needs.

Control over Workforce Supply

Control over the supply of different types of physicians is another characteristic of well-performing health care systems. In the United Kingdom and Canada, countries with single-payer systems, the government has leverage to manipulate the health care workforce supply, including controlling both training capacity and employment opportunities. In the United States, the federal government’s primary policy for influencing physician supply is through Medicare reimbursement of graduate medical education residency training positions. The United States also has limited funding to support primary care training programs (Title VII) and scholarship programs with service

Data are from a previous year for 2 countries: For the Slovak Republic, data are from 2003; for Japan, data are from 2002. Recent data are available only for 26 of the 30 Organization for Economic Co-operation and Development (OECD) countries. Source: Congressional Research Service based on OECD Health Data 2006 (October 2006).
obligations, such as the National Health Service Corps, Uniformed Services, and Indian Health Service.

**Widespread Implementation of Electronic Medical Records**

Compared with countries with well-performing health care systems, the United States lags seriously in the implementation of EMR systems in office practice. Compared with primary care doctors in 6 other countries, U.S. physicians are among the least likely to have extensive clinical information systems. In 2006, nearly all primary care doctors in the Netherlands (98%), and 79% to 92% of doctors in Australia, New Zealand, and the United Kingdom, have EMR systems, while the rate was only 28% in the United States and 23% in Canada. Most doctors in countries with high rates of EMR systems routinely use them to electronically order tests, prescribe medications, and access patients’ test results. Compared with doctors in the United States, doctors in these countries are more likely to receive computerized alerts about potential problems concerning drug dosages and interactions, have reminder systems to notify patients about preventive or follow-up care, and (except for the Netherlands) receive prompts to provide patients with test results. More than 60% of the doctors in the 4 countries with high EMR use, as well as those in Germany (where 42% have EMR systems), say it is easy to generate lists of patients by diagnosis or health risk; in contrast, only 37% of U.S. doctors say it is easy, and 60% say it is somewhat difficult or worse to generate such lists. Likewise, doctors in countries with high rates of EMR systems are 2 to 4 times as likely to say it is easy to generate lists of patients who are due or overdue for tests or preventive care; only 20% of doctors in the United States report that it is easy (68).

**Figure 5. Commonwealth Fund overall rankings of 6 countries, according to key indicators of performance.**

<table>
<thead>
<tr>
<th>Country Rankings</th>
<th>Australia</th>
<th>Canada</th>
<th>Germany</th>
<th>New Zealand</th>
<th>United Kingdom</th>
<th>United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Ranking (2007)</td>
<td>3.5</td>
<td>5</td>
<td>2</td>
<td>3.5</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Quality Care</td>
<td>4</td>
<td>6</td>
<td>2.5</td>
<td>2.5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Right Care</td>
<td>5</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Safe Care</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Coordinated Care</td>
<td>3</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Patient-Centered Care</td>
<td>3</td>
<td>6</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Access</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Efficiency</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Equity</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Healthy Lives</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>4.5</td>
<td>4.5</td>
<td>6.10</td>
</tr>
<tr>
<td>Health Expenditures per Capita, 2004</td>
<td>$2876*</td>
<td>$3165</td>
<td>$3005*</td>
<td>$2083</td>
<td>$2546</td>
<td>$6102</td>
</tr>
</tbody>
</table>

Source: Calculated by the Commonwealth Fund based on the Commonwealth Fund 2004 International Health Policy Survey; the Commonwealth Fund 2005 International Health Policy Survey of Sicker Adults; the 2006 Commonwealth Fund International Health Policy Survey of Primary Care Physicians; and the Commonwealth Fund Commission on a High Performance Health System National Scorecard (65) (www.commonwealthfund.org).

*Data from 2003.

**Lessons from Other Countries and ACP Recommendations for Redesigning the U.S. Health Care System**

Analysis by the ACP of health care in 12 other industrialized countries illustrates various approaches to assuring universal access to high-quality health care. Each system has provided comparable or better health care at less cost than in the United States. The United States has much to learn from these countries. The following section describes key lessons from these countries and recommendations that build on these lessons. **Figure 6** summarizes the lessons learned and the recommendations that flow from them.

**Paying for Health Care**

**Lesson 1:** Well-functioning health systems all guarantee that all residents will have access to affordable health coverage for a defined set of benefits (that is, universal coverage). Countries have used different strategies to achieve universal coverage. Some have opted for a system funded solely by the national or provincial governments (single-payer systems, as in Canada, United Kingdom, Japan, and Taiwan), while others have a mix of public and private sources of funding (pluralistic systems, as in Australia, Belgium, Denmark, France, Germany, the Netherlands, New Zealand, and Switzerland).

**Lesson 2:** Global budgets (Canada, Germany, New Zealand, Taiwan, the United Kingdom, and the U.S. Veterans Administration) can help restrain health care costs but do not provide effective incentives for improved efficiency unless the annual expense budget is reasonable and the target region is small enough to motivate individual providers to avoid overutilization of services.

**Lesson 3:** Cost savings can be achieved through the use
Lesson | Recommendation
--- | ---
Well-functioning health systems guarantee that all residents have access to affordable health care. Countries differ in how they have chosen to achieve universal coverage; some have opted for a system funded solely by the national or provincial governments, whereas most others have opted for models that include a mix of public and private sources of funding. | Provide universal health insurance coverage to ensure that all people within the United States have equitable access to appropriate health care. Federal and state governments should consider adopting one of the following pathways:

- Single-payer systems, which generally have the advantage of being more equitable, with lower administrative costs than systems using private health insurance, lower per capita health care expenditures, high levels of consumer/patient satisfaction, and high performance on measures of quality and access. Such systems typically rely on global budgets and price negotiation to help restrain health care expenditures, which may result in shortages of services and delays in obtaining elective procedures and limit individuals’ freedom to make their own health care choices.
- Pluralistic systems, which can be designed to assure universal access while allowing individuals the freedom to purchase private supplemental coverage. Such systems are more likely to result in inequities in coverage and higher administrative costs.

Global budgets can help restrain health care costs, but do not provide incentives for improved efficiency unless they are set reasonably and targeted to small enough groups. | In countries with shared authority between national and regional governments, universal coverage can be achieved by providing financial support from the national government to efforts by regional governments to establish their own programs.

Cost savings can be achieved through the use of government power to negotiate prices but may result in shortages of services subject to price controls, delays in obtaining elective procedures, cost-shifting, and creation of parallel private sector markets. | Cost-sharing, designed so that low-income individuals pay no or nominal amounts, can help restrain costs while assuring that poorer individuals are still able to access services.

Congress should encourage state innovation by providing dedicated federal funds to support state-based programs to cover all uninsured persons within the state.

Societal investment in medical and other health professional education can help achieve a health care workforce that is balanced, well-trained, and in sufficient supply. Investment in primary and preventive care can result in better health outcomes, reduce costs, and may better assure an adequate supply of primary care physicians. | Societal investment in medical and other health professional education can help achieve a health care workforce that is balanced, well-trained, and in sufficient supply. Investment in primary and preventive care can result in better health outcomes, reduce costs, and may better assure an adequate supply of primary care physicians.

Effective physician payment systems include support for the role of primary care physicians, incentives for quality improvement and reporting, and incentives for care coordination. Higher quality of care can be encouraged through establishment of performance measures, financial incentives, and active monitoring of performance. | Effective physician payment systems include support for the role of primary care physicians, incentives for quality improvement and reporting, and incentives for care coordination. Higher quality of care can be encouraged through establishment of performance measures, financial incentives, and active monitoring of performance.

Support initiatives that provide financial incentives to physicians for the voluntary achievement of evidence-based performance standards, to encourage quality improvement and reduction of avoidable medical errors, and incentives for systems performance that encourage comprehensive and continuous care coordination and prudent stewardship of health care resources. | Uniform billing systems and electronic processing of claims improve efficiency and reduce administrative expenses.

Redistribute administrative and regulatory burdens, such as multiple and duplicative physician credentialing forms and multiplicity of types of insurance forms, and their attendant costs. | In countries with shared authority between national and regional governments, universal coverage can be achieved by providing financial support from the national government to efforts by regional governments to establish their own programs.

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Cost-sharing, designed so that low-income individuals pay no or nominal amounts, can help restrain costs while assuring that poorer individuals are still able to access services. | Cost-sharing provisions should encourage patient cost-consciousness without deterring patients from receiving needed and appropriate services.

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Societal investment in medical and other health professional education can help achieve a health care workforce that is balanced, well-trained, and in sufficient supply. Investment in primary and preventive care can result in better health outcomes, reduce costs, and may better assure an adequate supply of primary care physicians.

Effective physician payment systems include support for the role of primary care physicians, incentives for quality improvement and reporting, and incentives for care coordination. Higher quality of care can be encouraged through establishment of performance measures, financial incentives, and active monitoring of performance.

Uniform billing systems and electronic processing of claims improve efficiency and reduce administrative expenses. | Support initiatives that provide financial incentives to physicians for the voluntary achievement of evidence-based performance standards, to encourage quality improvement and reduction of avoidable medical errors, and incentives for systems performance that encourage comprehensive and continuous care coordination and prudent stewardship of health care resources.

Support an interoperable health information technology infrastructure with federal funds to assist physicians in acquiring technology that will enhance delivery of evidence-based patient-centered care.

Reduce administrative and regulatory burdens, such as multiple and duplicative physician credentialing forms and multiplicity of types of insurance forms, and their attendant costs. | Insufficient investments in research and medical technology result in reliance on outdated technologies and medical equipment and delay patients’ access to advances in medical science.

Encourage public and private investments in all kinds of medical research, including research on the comparative effectiveness of different treatments, to foster continued innovation and improvements in health care. | Insufficient investments in research and medical technology result in reliance on outdated technologies and medical equipment and delay patients’ access to advances in medical science.

Encourage public and private investments in all kinds of medical research, including research on the comparative effectiveness of different treatments, to foster continued innovation and improvements in health care.

Lesson 4: Countries that have federal systems in which national and regional governments share authority can achieve universal coverage by establishing a system in which regional governments receive substantial financial support from the national government but are free to establish their own programs. In Canada, federal support is subject to federal requirements for provinces to assure cross-border consistency in benefits and out-of-pocket costs and access to services across regional borders.

Recommendation 1a: Provide universal health insurance coverage to assure that all people within the United States have equitable access to appropriate health care with-
out unreasonable financial barriers. Health insurance coverage and benefits should be continuous and not dependent on place of residence or employment status. The ACP further recommends that the federal and state governments consider adopting one or the other of the following pathways to achieving universal coverage:

1. Single-payer financing models, in which one government entity is the sole third-party payer of health care costs, can achieve universal access to health care without barriers based on ability to pay. Single-payer systems generally have the advantage of being more equitable, with lower administrative costs than systems using private health insurance, lower per capita health care expenditures, high levels of consumer and patient satisfaction, and high performance on measures of quality and access. They may require a higher tax burden to support and maintain such systems, particularly as demographic changes reduce the number of younger workers paying into the system. Such systems typically rely on global budgets and price negotiation to help restrain health care expenditures, which may result in shortages of services and delays in obtaining elective procedures and limit individuals’ freedom to make their own health care choices.

2. Pluralistic systems, which involve government entities as well as multiple for-profit or not-for-profit private organizations, can assure universal access, while allowing individuals the freedom to purchase private supplemental coverage, but are more likely to result in inequities in coverage and higher administrative costs (Australia and New Zealand). Pluralistic financing models must provide 1) a legal guarantee that all individuals have access to coverage and 2) sufficient government subsidies and funded coverage for those who cannot afford to purchase coverage through the private sector. (See the ACP’s proposal for expanding access to health insurance as an example of how a pluralistic system can achieve universal coverage [69].)

Recommendation 1b: Provide everyone access to affordable coverage—whether provided through a single-payer or pluralistic financing model—that includes coverage for a core package of benefits, including preventive services, primary care services—including but not limited to chronic illness management—and protection from catastrophic health care expenses.

Recommendation 1c: Until there is political consensus for achieving universal coverage at a federal level, Congress should encourage state innovation by providing dedicated federal funds to support state-based programs with an explicit goal of covering all uninsured persons within the state. (See the ACP position paper, “State Experimentation with Reforms to Expand Access to Health Care” [70].)

Comment: Universal health care insurance is necessary to ensure that everyone within the United States has access to needed health care services of high quality. The federal government should assure that all persons within the borders of the United States also have access to health care services without undue financial barriers and that health care services provided are adequately reimbursed. The ACP recommends 2 alternatives: a system funded solely or principally by government (federal and state), commonly known as a single-payer system, or a pluralistic system that incorporates existing public and private programs with additional guarantees of coverage and with sufficient subsidies and other protections to assure that coverage is available and affordable for all. The ACP has proposed a step-by-step plan that would achieve universal coverage while maintaining a pluralistic system of mixed public and private sector funding (69).

Controlling Health Care Costs

Lesson 5: The best systems ensure access to health care without financial barriers. Cost sharing with co-payment schedules based on income, so that low-income individuals pay no or nominal amounts (Belgium, France, Japan, New Zealand, and Switzerland), can help restrain costs while assuring that poorer individuals can access services.

Lesson 6: Incentives to encourage personal responsibility for health (Australia, Belgium, Japan, New Zealand, the Netherlands, Switzerland, and Taiwan) can lead to healthy behaviors, improved health outcomes, and responsible utilization of health care services. These countries restrain costs without punishing people who fail to adopt recommended behaviors or lifestyles.

Recommendation 2: Create incentives to encourage patients to be prudent purchasers and to participate in their health care. Patients should have ready access to health information necessary for informed decision making. Cost-sharing provisions should be designed to encourage patient cost-consciousness without deterring patients from receiving needed and appropriate services or participating in their care.

Comment: Consumer-directed health care—in which patients are actively involved in medical decision making and are prudent purchasers of health care—is one strategy for reducing health care costs and improving the efficiency of the health care system. However, for patients to make informed decisions, they must have access to pertinent, accurate, and understandable information. Health systems should provide easy access to information about the actual prices of medical services and available treatment options and patient education about health, diet and nutrition, and preventive health care. Patients should have access not only to information about their own health and treatment options but also to information that compares the effectiveness and costs of drugs, tests, and medical procedures. Public access to information about the qualifications and performance of physicians, hospitals, and other providers of health care services would also inform patient decision making. Achieving a transparent and interactive health information system that facilitates ready access to valid and reliable data will require collaboration between the public and private sectors (71).

Greater cost sharing is one means to encourage pa-
tients to be more prudent purchasers of health care. However, merely imposing greater cost-sharing requirements can reduce appropriate use of health care services. Increasing cost sharing can also create greater financial burdens and barriers to obtaining needed health care services. Increased cost sharing can increase inequities because it raises out-of-pocket costs. It can create financial burdens that especially affect low-income people. Out-of-pocket costs may cause patients to skip preventive health care services that could prevent more serious health problems and that ultimately would be cost-effective. Nevertheless, as their health care costs continue to rise, other countries are increasingly resorting to requiring patient cost sharing (France, Japan, New Zealand, and Switzerland). As yet, the impact of these measures on health is unknown.

Another approach is to create positive incentives for patients to seek increased value for their health care dollar. Congress sought to achieve this objective by permitting individuals and their employers to make tax-free contributions to health savings accounts. The individual owns and controls these accounts and can use them to pay for “qualified medical expenses.” Unused funds in a health savings account grow year-to-year tax free, thereby creating further incentives for the individual to be prudent purchasers of health care services (72).

Assuring a Health Care Workforce to Meet the Nation’s Health Care Needs

Lesson 7: Societal investment in health professional education, which would reduce the cost to students, can help achieve a health care workforce that has the right proportion of primary care physicians and subspecialists, is well trained, and is large enough to assure access to care (France, Germany, the United Kingdom, and the U.S. Veterans Administration).

Lesson 8: Investment in primary and preventive care can result in better health outcomes, reduce costs, and may better assure an adequate supply of primary care physicians. These efforts can be further enhanced by assuring that all residents have equitable access to primary care physicians (Australia, Canada, Denmark, France, the Netherlands, New Zealand, Switzerland, and the United Kingdom) and utilizing the patient-centered primary care model (Denmark).

Recommendation 3: Develop a national health care workforce policy that includes sufficient support to educate and train a supply of health professionals that meets the nation’s health care needs. To meet this goal, the nation’s workforce policy must focus on ensuring an adequate supply of primary and principal care physicians trained to manage care for the whole patient. The federal government must intervene to avert the impending catastrophic shortage of primary care physicians. A key element of workforce policy is setting specific targets for producing generalists and specialists and enacting policy to achieve those targets.

Comment: All stakeholders must be involved in coordi-
good that benefits all of society. Undergraduate, graduate, and continuing medical education must have adequate funding. Most other countries finance medical school education with public funds, so that students pay little (the Netherlands) or no (Australia, Canada, France, Germany, Japan, and Switzerland) tuition and typically are responsible only for the cost of books and fees (86).

In contrast, the average tuition in the United States in 2005 was $20 370 for public medical schools and $38 190 at private medical schools. Students and their families pay most of this cost. As a result, 85% of graduating medical students begin their careers with substantial educational debts. The average debt in 2005 was $105 000 for graduates of public medical institutions and $135 000 for graduates of private medical schools (87). Rising educational debt influences physician career choices and is one of the factors that discourage medical students from choosing a career in primary care (88). The long pipeline of medical education and training, the impending crisis in primary care, and the retirement and career changes of older physicians require the United States to take action to assure a constant influx of new students embarking on medical careers, particularly in primary care.

Physician workforce planning should determine the nation’s current and future needs for appropriate numbers of physicians by specialty and among geographic areas. A national commission should provide a blueprint for action at the federal level to accomplish this task. Such planning would involve a systematic determination of residency training needs and guidance for allocation of federal funding support. Immediate and comprehensive reforms are needed to assure that the United States has enough primary care physicians to care for an aging population that will suffer from chronic diseases.

A more detailed presentation of ACP recommendations concerning a national health workforce policy can be found in the position papers “Creating a New National Workforce for Internal Medicine” (89) and “The Impending Collapse of Primary Care Medicine and Its Implications for the State of the Nation’s Health Care” (48).

## Policies That Promote Patient-Centered Care

**Lesson 9:** Effective physician payment systems include adequate payment for primary care services, incentives for quality improvement and reporting (Belgium and the United Kingdom), recognizing geographic or local payment differences (Canada, Denmark, Germany, and the United Kingdom), and incentives for care coordination (Denmark and the Netherlands).

**Recommendation 4:** Redirect federal health care policy toward supporting patient-centered health care that builds on the relationship between patients and their primary and principal care physicians and financially supports the patient-centered medical home, a practice system that the evidence suggests has the potential to improve health outcomes, achieve more efficient use of resources, and reduce health care disparities.

*Comment:* Principal care physicians provide the predominant source of care for a patient. Primary care physicians are principal care physicians, but so are other medical specialists and subspecialists when they are the patient’s principal source of care. In the position paper “A System in Need of Change: Restructuring Payment Policies to Support Patient-Centered Care” (90), the ACP proposes that the federal government take the lead in restructuring payment policies to achieve patient-centered health care. (The advanced medical home is a model — described in previous ACP position papers — that offers the benefits of a whole person–oriented personal physician who accepts overall responsibility for the care of the patient and leads a team that provides enhanced access to care, improved coordinated and integrated care, and increased efforts to ensure safety and quality. The American Academy of Family Physicians has proposed a similar model called the *personal medical home*. The ACP, American Academy of Family Physicians, American Academy of Pediatrics, and American Osteopathic Association have adopted a joint statement of principles that uses the patient-centered medical home as a common descriptor for both models. We will use the term *patient-centered medical home*, which is interchangeable with the term *advanced medical home* as described in other ACP position papers.)

A patient-centered medical home is a medical practice in which:

1. Each patient has an ongoing relationship with a personal physician trained to provide first contact, continuous, and comprehensive care.

2. A personal physician leads a team of individuals at the practice level who collectively take responsibility for treating and managing care for the whole patient, rather than limiting practice to a single disease condition, organ system, or procedure.

3. Care is coordinated and/or integrated across all elements of the health care system (for example, subspecialty care, hospitals, home health agencies, nursing homes) and the patient’s community (for example, family, public, and private community-based services).

4. The practice consistently uses evidence-based medicine, clinical decision-support tools, health information exchange, and other means to guide decision making and to assure that patients get the indicated care when and where they need and want it in a culturally and linguistically appropriate manner.

5. Patients are involved in planning, decision making, and accountability for ongoing medical care.

6. Patients have enhanced access to care through such systems as open scheduling, expanded hours, and new options for communication between patients, their personal physician, and practice staff.

7. Practices go through a voluntary recognition process by an appropriate nongovernment entity to demonstrate...
that they have the capabilities to provide patient-centered services consistent with the medical home model.

8. Practices receive payments that appropriately recognize the added value provided to patients (91).

The ACP has previously proposed a series of fundamental changes to improve the delivery of health care services. Patients should be encouraged or provided incentives to enroll in a medical home. Medical homes should meet standards of accessibility and care coordination. Position papers from the ACP provide greater detail on each of the following proposals:

1. Change payment policies to provide physician case management fees for care coordination services (92).
2. Encourage the use of EMRs (93).
3. Encourage the use of and exchange of electronic health care information (94).
4. Provide incentives for coordinated, patient-centered care (advanced medical home) (95).
5. Use evidence-based performance measures to improve the quality of care and providing incentives, including financial incentives, to reward physicians who meet or exceed standards (96).
6. Pay physicians for computer-based consultations (97).
7. Pay physicians for telephone consultations (98).
8. Promote professionalism and the patient–physician relationship, including physician responsibility to be prudent managers of resources (99).

Measuring the Quality of Health Care

Lesson 10: Performance measures, financial incentives, and active monitoring of performance are key elements of health systems that provide high-quality care (Australia, New Zealand, the United Kingdom, and the U.S. Veterans Administration).

Recommendation 5: Provide financial incentives for physicians to achieve evidence-based performance standards. The United States should consider revising existing volume-based payment systems used by Medicare and most private insurers to 1) better support physician–patient relationships by creating care coordination payments and other incentives for physicians working with health care teams to provide patient care management that includes comprehensive ongoing care and 2) maintain a fee-for-service component for separately identifiable visits and procedures, such as the bundled and hybrid payment structure used in Denmark and the Netherlands.

Comment: The current physician payment system in the United States provides incentives for increasing the volume of physician services but few financial incentives for cost-effective or efficient care. It also better rewards physicians for the use of technological procedures as opposed to time-intensive services. Physician payment methods in the United States also provide little incentive for physicians to assume responsibility for being prudent managers of health care resources. A better payment model is the blended approach as used in Denmark, where primary care physicians receive a capitated payment for providing care coordination and case management—by telephone or e-mail—as in a medical home, in addition to receiving fee-for-service payments for office visits.

Achieving a well-functioning health care system that encourages quality improvement will require incentives to encourage change. Performance measurement, the objective assessment of how well physicians adhere to evidence-based standards to achieve desired outcomes, is increasingly being applied in the health care sector to improve the quality, safety, and accountability of medical care. Pay-for-performance programs utilize performance measures to enhance the quality of health care by rewarding physicians for adhering to evidence-based standards of care. The ACP policy and its analysis of performance measurement and pay-for-performance is presented in greater detail in 2 position papers, “The Use of Performance Measurements to Improve Physician Quality of Care” (96) and “Linking Physician Payments to Quality Care” (100).

In these papers, the ACP warns that:

Performance measures—if done right—have potential to assess physician performance, improve the quality of patient care, enhance the coordination and management of care, and reward physicians who meet or exceed the benchmarks set by performance measures. However, if applied in a bureaucratic, arbitrary, or punitive manner, performance measurement can hinder quality and harm patient care, undermine the physician–patient relationship, and cause physician frustration and career dissatisfaction (96).

Pay-for-performance systems should be evidence-based, transparent, fair, and equitable for practicing physicians. The ACP believes that the primary goal of such programs must be to promote continuously improving quality care across the health care delivery system. Accordingly, pay-for-performance programs should focus on the following:

1. Demonstrating that they lead to patient care that is safer and more effective as the result of program implementation.
2. Provide incentives for all physicians to perform better, continually raising the bar on quality.
3. Establishing or linking to technical assistance efforts and learning collaboratives so that all providers are motivated and helped to improve their performance.

Major changes are needed to the current physician payment system in the United States to achieve a system that truly rewards quality improvement on evidence-based measures of care. Adding reimbursement tied to physician performance on top of the current payment system, unless substantial, will be inadequate to materially change the current level of physician performance. Instead, physician payment methods need fundamental redesign (as outlined...
in recommendation 5), so that physician reimbursement would no longer be based on volume and episodes of acute illnesses but on patient-centered, physician-guided care coordination and quality performance based on evidence-based clinical measures.

Practice-based electronic health information systems (see recommendation 6 below) will facilitate the collection and reporting of patient data for measurement purposes, so that physicians can easily report and share information without further adding to administrative and paperwork burdens. Performance measures will not lead to quality improvement if physicians in practice lack the ability to incorporate proven quality improvement measures into their practices.

Electronic Billing and Medical Records

**Lesson 11:** Adoption of a uniform billing system and electronic processing of claims improves efficiency and reduces administrative expenses (Germany, Canada, Taiwan, the United Kingdom, and most others, including the U.S. Veterans Administration).

**Recommendation 6:** Reduce the costs of health care administration and the attendant burdens they place on patients and their physicians by creating uniform billing and credentialing systems across all payers.

**Recommendation 7:** Support with federal funds an interoperable health information technology infrastructure that assists physicians in delivering evidence-based patient-centered care.

**Comment:** Reducing paperwork, claims processing, and regulatory requirements could yield large savings. The ACP has long advocated measures to reduce administrative burdens and regulatory hassles (101). In a 1998 policy paper on the topic of hassles created by insurers (102), the American Society of Internal Medicine found the following:

1. Physicians are spending more time on insurance paperwork and less time seeing patients.
2. Physicians believe that insurers question their professional judgment too often.
3. Physicians have been forced to hire additional personnel to keep up with the abundant paperwork that insurance hassles create.

The ACP continues to advocate the following long-held positions:

1. All health insurance industry forms should be uniform, with one form per task rather than a different form for the same task from every insurer (for example, a single durable medical equipment approval form and a single referral form).
2. All health care plans and hospitals should use one standard physician credentialing and recredentialing form.

**Comment:** Electronic technology will allow automating payment and health insurance transactions without reliance on paper processing. Automated point-of-care transactions are made possible by using smart card technology (similar to automated teller machine cards) that will automatically verify the individual’s coverage status, benefits, and required copayments and co-insurance, and bill the appropriate payer for care rendered and the individual for their required cost sharing on a debit basis. Denmark uses this system.

Greater use of health information technology, use of EMRs, and implementation of systems to enable electronic prescribing can improve the quality of patient care, reduce medical errors, increase efficiency, reduce administrative costs, and achieve substantial cost savings. Coordination of patient care—which is the essence of the patient-centered primary care model recommended by the ACP—requires smooth transfer of information (with appropriate safeguards of patient privacy) among a team of providers. Use of interoperable health information technology systems in this model will help eliminate duplication of information gathering and testing and will promote care coordination.

Denmark, Taiwan, and the Netherlands have an interoperable health information infrastructure that incorporates decision-support tools. Systems like these will enable physicians to obtain instantaneous information at the point of medical decision making and will enhance electronic communications among physicians, hospitals, pharmacies, diagnostic testing laboratories, and patients. Health information technology would support patient registries, enhance monitoring of patient adherence, increase access to laboratory and test results, provide prompts for physician and patient reminders and alerts, recommend treatment plans, and enable longitudinal charting of risk factors, utilization of services, and health outcomes (68). Health information technology could also enable ongoing, routine feedback from patients to the practice, using low-cost, Internet-based, patient-centered care surveys. This feedback could lead to targeted plans for practice improvement.

However, physician practices in the United States lag far behind those in other developed countries in their capacity to access and share information electronically (68). Several barriers have slowed progress. The United States does not provide tax credits or incentives for implementing EMR systems and does not maintain an interoperable system for sharing health information. Medicare and other health care payers do not reimburse physicians for electronic consultations, even though they would cost much less than office visits. Barriers limiting physician adoption of systems of EMRs include not only the initial cost of required investments in the technology but also the disruption and possibly greater costs of time, training, and data entry involved in transferring paper to electronic records (103). Physicians are also hesitant to invest in systems that may not become the industry standard, that may not be able to communicate with other systems, and that may quickly become obsolete. Regulatory barriers and lack of interoperability also impede physicians from being able to transmit prescriptions electronically. Concerns about pro-
Dealing with New Medical Care Technology

Lesson 12: Insufficient investments in research and medical technology result in reliance on outdated technologies and medical equipment, and delay patients’ access to advances in medical science (Canada and the United Kingdom).

Recommendation 8: Encourage public and private investments in all kinds of medical research—including research on comparative effectiveness of different treatments—to foster continued innovation and improvements in health care.

Comment: Investments in basic health research are critical to advance medical knowledge. The nation’s investments, in basic research both privately and through the National Institutes of Health, have led to important advances in medicine. The public benefits from discoveries that advance medical science as well as from the development of new pharmaceuticals, medical equipment, processes, and procedures. Incentives to continually invest in basic and clinical research are essential to progress.

Another form of research has received less attention—and far less funding—but is necessary to properly evaluate the health consequences of advances in medical research: health services research and the scientific assessment of the safety, clinical effectiveness, and cost and benefits of health care technology. The United States must invest in health services research in order to determine the safety, effectiveness, and efficacy of medical tests and procedures, and to determine the comparative effectiveness—cost, value, and efficacy—of different treatment regimens and technologies. Information obtained from this research must be widely disseminated to guide health care providers to appropriately utilize new technologies and avoid inappropriate use.

According to the AHRQ, “Health services research examines how people get access to health care, how much care costs, and what happens to patients as a result of this care. The main goals of health services research are to identify the most effective ways to organize, manage, finance, and deliver high quality care; reduce medical errors; and improve patient safety” (104).

Many other countries that have national health insurance programs, such as the United Kingdom and Australia, perform evidence-based evaluations of new drugs and technology. Much of this information is shared through the Network of Agencies for Health Technology Assessment, of which the AHRQ is a member. To attain a well-functioning health care system, the United States should increase investment in technology assessments, comparative effectiveness, and health services research. The AHRQ must have adequate funding to support research, to disseminate the results of health services research and technology assessments, and to foster international cooperation in sharing information.

Summary and Conclusions

Health care in the United States has many positive features and in many respects is superb compared with health care anywhere else in the world. Those with adequate health insurance coverage or sufficient financial means have access to the latest technology and the best care. However, as this paper points out, the U.S. health care system is inefficient and inconsistent: Health care quality and access vary widely both geographically among populations, some services are overutilized, and costs are far in excess of those in other countries. Moreover, the United States ranks lower than other industrialized countries on many of the most important measures of health. Current international comparisons of measures of health (life expectancy at birth, infant mortality, and deaths per 100,000 for diseases of the respiratory system and for diabetes) indicate that population health in the United States is not better than in other industrialized countries despite the greater U.S. expenditures (58).

The experience and innovations of health care systems in other countries provide many lessons as the United States tries to improve its health system. Among these lessons are the value of an orientation and emphasis on patient-centered primary care and the importance of assuring a well-educated physician workforce that meets the country’s need for primary care physicians. The quality and accessibility of health care in the United States could be improved by adopting reimbursement programs like those in other countries that provide substantial rewards based on performance on quality metrics and care coordination rather than solely on the volume of services provided. These payment systems together with national workforce planning might also help address the impending primary health care workforce shortages in the United States. Universal and compulsory health insurance coverage could eliminate many of the disparities and inequities in the United States. Expanded use of health information technology and substantial governmental investments and support for a health information technology infrastructure with appropriate patient privacy protections could enhance health care decision making by physicians and patients and would bolster the growing movement for consumer-directed health care. These are some of the lessons we can learn from other industrialized countries.

Other lessons for a more efficiently functioning health care system include achieving lower administrative costs by standardizing coverage and insurance transactions; providing coverage through publicly funded programs rather than private insurance; and automating transactions among providers, patient, and insurers. This article does not address many other issues in depth. Topics for further in-depth analysis include the costs and impact of malpractice liabil-
ity insurance, determination of prescription drug prices, differences in medical education (including costs and student debt), financing long-term care, and physician earnings and income. The United States may also benefit by examining how other countries manage end-of-life care, determine the distribution of health care resources, and make decisions on coverage and benefits.

The ACP has offered a series of recommendations to achieve a well-functioning health care system. All Americans should have access to a primary care physician and should have a patient-centered medical home for their ongoing, continuous, comprehensive, and coordinated care. All Americans should have health insurance coverage that includes preventive and primary care services, as well as protection from catastrophic health care costs. Federal health policy should support the patient-centered primary care model. The United States lacks a national health care workforce policy. It should provide for sufficient support for the infrastructure required to educate and train an adequate supply of health professionals that would properly meet the nation’s health care needs, including primary and principal care physicians that are trained to manage care of the whole patient. Workforce planning should specify an appropriate mix of physicians between primary and specialty care and describe the policies required to achieve that goal. Public and private investments in research must continue to support advances in basic and clinical medical science as well as in health services research. Other ACP recommendations call for financial incentives to encourage quality improvement and reduction of avoidable medical errors, support for a health information technology infrastructure to assist patients and physicians in making informed decisions about the appropriate use of health care services, and use of technology to achieve a more efficient health care system.

The main lesson of this article is that many countries have better functioning, lower cost health care systems that outperform the United States. We must learn from them.


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