EXECUTIVE SUMMARY

At the 2009 Annual Meeting, the House of Delegates adopted as amended Resolution 124, which calls for the American Medical Association (AMA) to undertake a careful examination of the reported cost estimates of the health care systems of comparable developed countries, clarify the services and attendant expenses which are included in such estimates, publicize any estimates which ignore costs shifted to other parts of national budgets, and use this information in our efforts to ensure that the true cost of all of the services provided by the United States health care system are appropriately figured into any system redesign. The House amended the resolution to request a report back at the 2009 Interim Meeting.

This report focuses on comparisons between the United States and the United Kingdom, Canada, Germany and Switzerland. The UK and Canada are classic examples of “single payer” health care systems. Germany and Switzerland have more market-based health care systems, although the government is still responsible for a large portion of health care expenditures.

As noted in the whereas clauses of Resolution 124 (A-09), there is a wide variation in the type and scope of data collected with respect to health system expenditures. In recognition of the need for consistent and comparable health care cost data, the Organization for Economic Cooperation and Development (OECD) proposed a standardized health system accounting framework that could be used by countries to facilitate data reporting and comparisons. The System of Health Accounts (SHA) is based on an International Classification for Health Accounts (ICHÀ), which highlights three specific dimensions of health care measurement: health care functions, health care service providers, and sources of funding of health care. Tracking and stratifying data along each of these dimensions allows policymakers to more closely examine the interrelationships between different components of health care systems, and to answer more detailed questions about how resources are distributed across services and functions.

OECD’s most recent expenditure data shows the US outpacing similar countries in health care expenditures, even after the reporting data is harmonized using the SHA methodology. It is important to note, however, that there is limited value in highlighting cost comparisons between countries without also considering the socioeconomic and cultural context in which a health care system operates. The Council believes that international comparisons of health system expenditures offer only limited value in terms of helping countries identify strengths, weaknesses, or potential efficiency improvements. Individual countries face unique realities shaped by history and culture that make it unlikely that large scale “successes” in one country could translate into similar successes in another. However, the Council is optimistic that improving the nature of health system accounting will improve the ability of health policy experts to carefully analyze health care systems and identify improvements that are appropriate in the overall context of health care system redesign.
Subject: Comparability of the Cost Estimates of Health Care Systems

Presented by: Barbara L. McAneny, MD, Chair

At the 2009 Annual Meeting, the House of Delegates adopted as amended Resolution 124 (Policy D-155.991, AMA Policy Database), which calls for the American Medical Association (AMA) to undertake a careful examination of the reported cost estimates of the health care systems of comparable developed countries, clarify the services and attendant expenses which are included in such estimates, publicize any estimates which ignore costs shifted to other parts of national budgets, and use this information in our efforts to ensure that the true cost of all of the services provided by the United States health care system are appropriately figured into any system redesign. The House amended the resolution to request a report back at the 2009 Interim Meeting.

BACKGROUND

Even before federal health system reform became a top priority for the nation, reports of rising health care costs in the United States and the number of uninsured Americans were frequent features in the news. Reports that US health care expenditures far exceed those of comparable countries, combined with some studies suggesting that the US gets relatively less for its health care dollar, have led some policymakers to speculate that the US health care system is less efficient than that of other countries. This has resulted in increased scrutiny of the decentralized, market based health care system in the US, with some arguing that centralized health care systems are more cost-effective and equitable.

At the 2006 Annual Meeting, the Council presented Council on Medical Service Report 5, “Comparison of Selected International Health Care Systems.” This informational report was intended to provide a snapshot of how some countries organize their health care infrastructures, and the challenges that arise from different funding structures and delivery systems. The report highlighted the health care systems of the United Kingdom (UK), Canada, Germany, and Switzerland, all of which have nearly universal health insurance coverage. The Council selected these countries because in addition to some fundamental similarities between their governmental structures and economies and those of the US, their health care systems represent a variety of frameworks that offer unique opportunities and challenges for meeting the needs of their populations.

Summary of Selected International Health Care Systems

The Council again focused on the UK, Canada, Germany and Switzerland in the development of this report. The UK and Canada are classic examples of “single payer” health care systems, and health insurance coverage is available to all residents free of charge. Health care expenditures are financed primarily through general tax revenues, and the private insurance market plays a relatively insignificant role in both systems. In the UK, health care financing and budgeting are controlled at the national level, although local service delivery is coordinated by more than 300 Primary Care Trusts, which together control approximately 80% of the National Health Service (NHS) budget.
The Canadian health care system was modeled after the NHS, but is more decentralized because of the strong, independent nature of the Canadian provinces. Funding responsibility is shared between the federal and provincial governments, and the provinces assume significant responsibility for directing and funding the health insurance plan in their regions.

Germany and Switzerland have more market-based health care systems, although the government is still responsible for a large portion of health care expenditures. Most health insurance in Germany is funded through taxes paid by employers and employees, who choose from a wide range of independently-operated health insurance plans. In Switzerland, individuals are responsible for obtaining private insurance from one of several private insurers who offer benefits mandated by the Swiss government. Individuals who cannot afford health insurance are eligible for means-tested subsidies provided by the government.

It is beyond the scope of this report to evaluate the merits of various health care systems, although Council on Medical Service Report 5-A-06 included a discussion of the tradeoffs associated with the various organizational structures represented by the US and the other countries. Council Report 5-A-06 concluded that, “it will be critical to maintain a pluralistic health care system that emphasizes patient choice…The Council believes it will continue to be in the best interests of patients and physicians to advocate for long-term health system reforms that are primarily based on consumer-driven and market-based principles.”

COMPARABILITY OF HEALTH CARE COST ESTIMATES

As noted in the Whereases of Resolution 124 (A-09), there is a wide variation in the type and scope of data collected with respect to health system expenditures. National health accounts maintained by some individual countries allow domestic policymakers to track funding sources and health expenditures, and provide a snapshot of the resources used to support the health care system. Depending on the level of detail of the accounts and the data sources available, countries can use information from their national health accounts to analyze spending or resource-use trends that reflect specific policy concerns, which are often influenced by the structure of the particular health care system. For example, the fragmented financing structure of the US health care system has resulted in a national health account structure that emphasizes the role of financing agents. In contrast, most European health care systems rely primarily on public financing, so the dominant policy issue for European nations has been how health care resources are used, rather than how they are funded (Orosz, 2005).

The content and structure of national health accounts is often dictated by the availability of relevant health accounting data. Countries rely on available administrative information (e.g., claims data from public and private insurers) and on surveys that may target specific information not otherwise available from administrative records (A System of Health Accounts [SHA], 2000). Examples of data that may need to be supplemented by surveys include private out-of-pocket health care spending or health care spending by charities. The extent to which countries collect and maintain accurate records of certain health expenditure data depends on the resources available and on the perceived relevance of the data for analytical purposes.

Even if all countries were collecting the same basic set of health care expenditure information, estimates of total health expenditures are dependent on what each country includes in its definition of “health expenditure.” Identifying the “boundaries” of health care expenditures is critical to establishing a degree of comparability among international health care cost data. From country to country, health care expenditure data may or may not include such categories as medical education
costs, research and development on health-related issues, environmental health, home health
services, long-term care, or administrative costs (Orosz and Morgan, 2004).

A particular source of variability among countries is the overlap between services that could be
classified as either social welfare or health care costs. For example, services for people with
physical or mental disabilities, or substance abuse problems often include medical and social
service components, and there is a lack of consistency about how these services are categorized.
The classification of long-term care expenditures is especially problematic and has a significant
effect on the comparability of health care expenditure data. In the US, a large portion of long-term
care costs are reported as health care expenditures (primarily through the Medicaid program),
whereas many other countries classify long-term care as a social welfare expenditure (i.e., it is not
included in health care cost estimates) (Orosz and Morgan, 2004). The distinctions between
medical support services and social support services in long-term care delivery are easily blurred,
and in the absence of a standardized reporting format, countries vary in how long-term care costs
are classified. It has been estimated that the lack of comparability in long-term care reporting may
affect total expenditure reporting by as much as 10% (Orosz and Morgan, 2004).

A SYSTEM OF HEALTH ACCOUNTS

Along with the US, the UK, Canada, Germany and Switzerland are among the 30 member
countries of the Organization for Economic Cooperation and Development (OECD) that “share a
commitment to democratic government and the market economy.” In 2007, OECD countries spent
an average of 8.9% of gross domestic product on health care expenditures, up from around 7% in
1990. Rising health care costs and the need to define and ensure adequate levels of health care
resources are pressing problems for most of the OECD member countries. Accordingly, OECD
has devoted significant resources to providing meaningful data on health system expenditures that
analysts can use to help identify appropriate and effective health policy solutions.

In recognition of the need for consistent and comparable health care cost data, the OECD proposed
a standardized health system accounting framework that could be used by countries to facilitate
data reporting and comparisons. In 2000, the OECD published A System of Health Accounts,
“designed to meet the needs of analysts of health care systems and policymakers. [The proposed
accounts] provide a common framework for enhancing the comparability of data over time and
across countries. They are intended for use in international comparisons that include a broad range
of countries with different ways of organizing health care and its financing” (SHA, 2000).

The SHA is based on an International Classification for Health Accounts (ICHA), which highlights
three specific dimensions of health care measurement: health care functions, health care service
providers, and sources of funding of health care. Tracking and stratifying data along each of these
dimensions allows policymakers to more closely examine the interrelationships between different
components of health care systems and to answer more detailed questions about how resources are
distributed across services and functions.

The concept of health care function is generally not captured in national health accounts, and
provides a basis for identifying clear, uniform boundaries for health care expenditure classifications
and sub-classifications. Standard boundaries are especially important for harmonizing international
cost reporting data, and also add an important informational dimension for domestic policy
analysis.
Under the ICHA framework, health care is divided into specific functional categories that are defined according to the goals and purposes of health care. Examples of functional categories include curative care, rehabilitative care, and services of prevention and public health. ICHA also defines a set of health care-related functions, which includes education and training of health personnel, and research and development. A complete list of the ICHA categories is available on the OECD Web site (OECD.org).

Under the SHA, total health expenditures – a figure commonly quoted in health policy literature – is defined by the sum of expenses related to core health care functions. SHA distinguishes between core health care functions that are provided directly to individuals (or collectively as in the case of public health), and health care-related functions. Although health care-related functions are “closely linked” to core health care functions, SHA recommends tracking them separately, since many of them (e.g., medical education, environmental health) represent separate “parameters under health policy” (SHA, 2000).

The SHA proposes the use of distinct ICHA classifications for providers (e.g., hospitals, providers of ambulatory care, nursing care facilities) and financing sources, as well as function. The ICHA classification system includes sub-categories to further refine health care system reporting. According to OECD, because implementation is ongoing, data comparability is likely to be more reliable for broader categories, rather than the sub-categories. However, the ultimate goal of SHA implementation is that the level described will enable “a multifaceted analysis of how financial resources in health care systems are raised…, and allocated among functions and service providers” (Orosz and Morgan, 2005).

OECD HEALTH DATA 2009

The most recent OECD Health Data edition was released in July 2009. The full database is available for purchase, but a limited amount of data and detailed information about the sources and methods of data collection are publicly available. According to OECD, “the overriding aim of the OECD Secretariat is to ensure that data presented in OECD Health Data 2009 is as comparable as possible, both across countries and over time…The structure and definition of the variables in OECD Health Data 2009 are consistent with the concepts presented in the SHA manual.” OECD notes that because countries are at “varying stages” of implementing the SHA, the comparability of the data is not exact. OECD data include individual notes on each member country that provide specific information about the consistency between the country data and SHA definition and boundaries.

The Council contacted the OECD for clarification regarding the comparability of cost data reported in the latest OECD publication. The US, Canada, Germany and Switzerland currently use SHA methodology to compile the data they submit to OECD for inclusion in the database, so that the format and content of the information in the OECD database for these countries is generally consistent. However, in some cases, lack of available data at the national level, or structural differences in reporting boundaries or sub-classifications, compromise the degree of comparability. These issues are noted in the OECD Health Data 2009’s explanatory notes for each country.

The UK has not yet adopted the SHA methodology and reports health expenditures based primarily on their national account structure. The implications of this departure from SHA methodology are noted in the OECD’s explanatory notes for the UK.

Data from OECD Health Data 2009 is publicly available for the following macro-level statistics (for survey year 2007): total health expenditures as a percentage of gross domestic product (GDP),
percentage of total health expenditure from public sources (defined as state, regional and local
government bodies and social security schemes), and per capita health expenditures in US dollars
adjusted for purchasing power parities (which helps standardize exchange rates and the relative
costs of goods or services). Based on the OECD explanatory notes, the overall comparability of
these macro-level statistics appears to be high.

**United States**

In 2007, health expenditures accounted for 16% of GDP; 45.4% of total health expenditure was
from public funds, and per capita spending was $7,260. Expenditures as a percent of GDP and per
capita spending were significantly higher than those of the other four countries. Percent of public
spending on health care was significantly lower.

The main data source for US data is the National Health Expenditure data, which are compiled by
the Centers for Medicare and Medicaid Services. OECD notes regarding data comparability
identify several differences in national data reporting that affect the comparability of some of the
sub-categories reported in the OECD database. For example, data estimates for some
classifications were not available (e.g., curative and rehabilitative care, separate state and local
spending figures), and hospital estimates include some nursing home and home health spending.
This results in an over-reporting of hospital spending, and an under-reporting of home health
spending according to the SHA framework.

**United Kingdom**

In 2007, health expenditures accounted for 8.4% of GDP; 81.7% of total health expenditure was
from public funds, and per capita spending was $2,992. Expenditures as a percent of GDP and per
capita spending were lower than those of the other four countries. Percent of public
spending on health care was higher.

As noted, the UK does not use SHA methodology to report its data. However, OECD indicates
that “total health expenditure data for the UK includes funds spent by health administrations,
prisons, the armed forces, households, and not-for-profit institutions and investment in medical
facilities by all sections of the economy. These figures are considered fit for the purposes of
analyzing health expenditure in the UK and for making international comparisons.” Of note,
however, is the fact that health expenditure data do not include non-National Health Service
spending on nursing care in nursing homes, occupational health care, and household production of
health care (i.e., home care delivered by lay people as a substitute for formal nursing care). These
spending categories are included in health care expenditures as defined by the SHA, therefore the
UK’s health expenditure figures may be underreported relative to the other countries whose
statistics include these costs.

**Canada**

In 2007, health expenditures accounted for 10.1% of GDP; 70.6% of total health expenditure was
from public funds, and per capita spending was $3,895.

Factors that may influence the comparability of Canadian health care expenditure reporting include
the inclusion of expenditures not included in SHA boundaries (e.g., care for non-Canadians in
Canadian hospitals; expenditure on in-patient facilities for drug/alcohol addiction [SHA notes that
residential drug/alcohol treatment facilities include a large social service component]; and
expenditures on personal health care items, such as toothbrushes, medicated shampoos and
deodorant), and the exclusion of expenditures that fall within SHA boundaries (e.g., spending on school health, private sector expenditure on occupational health, expenditures of voluntary health associations).

**Germany**

In 2007, health expenditures accounted for 10.4% of GDP; 76.9% of total health expenditure was from public funds, and per capita spending was $3,588.

The OECD notes on data comparability note that the German Health Accounts were revised in 2006 in order to better harmonize with SHA. Although some differences remain, OECD finds the definition of health expenditures consistent with the SHA definition.

**Switzerland**

In 2007, health expenditures accounted for 10.8% of GDP; 59.3% of total health expenditure was from public funds, and per capita spending was $4,417.

OECD notes on data comparability indicate that Switzerland’s expenditure on investment is likely to be under-estimated, and that data is unavailable for several categories, including health administration and health insurance, nursing and residential care, and health care-related goods and services.

**US HEALTH CARE EXPENDITURES IN CONTEXT**

OECD’s most recent expenditure data shows the US outpacing similar countries in health care expenditures. Although it is possible that the magnitude of the difference could be inflated as a result of persistent data comparability issues, it appears likely that US health care expenditures are generally higher than those of comparable countries. However, this observation in itself is insufficient to conclude that the US is spending an inappropriate amount on health care. There is limited value in highlighting cost comparisons between countries without also considering the socioeconomic and cultural context in which a health care system operates. The demand for health care in the US is uniquely affected by national assets such as a high gross domestic product per capita that indicates an overall “ability to pay” for health care services, and national liabilities such as high rates of homicide, suicide, and domestic violence. Economists note that labor-market dynamics also contribute to health care costs in the US. Health care professionals are paid relatively more in the US than in other countries, in part because the US health care sector is competing with other fields such as law, finance and engineering to attract the highest levels of talent (Reinhardt, 2004).

A March 2009 paper released by the National Center for Policy Analysis notes that comparisons based on tangible resources rather than monetary accounts offer a different perspective on comparative health care resource use. The US uses fewer physicians, nurses, hospital beds, physician visits and hospital stays than the median OECD country (Goodman, 2009). Similarly, an analysis of global health care spending by McKinsey & Company notes that the US has relatively higher levels of spending on outpatient care than similar countries, in part because the US health care system delivers a higher percentage of care on an outpatient basis (Farrell, 2008).

A final consideration often obscured by comparisons based exclusively on health system expenditures is the extent to which health care supply is limited by policies or practices in a particular country. Wait times for certain health care services are generally much higher in the UK.
and Canada than they are in the US, in part because the resources are not available to meet the
demand generated by the national insurance schemes operated in those two countries. Britain has
far fewer computed tomography scanners and magnetic resonance imaging scanners as the US, and
lower rates of heart surgery, hip replacements, and treatments for kidney failure (Goodman, 2009).
It is difficult to quantify these restrictions on supply in monetary terms, but it is appropriate to note
that expenditure levels will correlate with the level of services accessible to a country’s residents.

DISCUSSION

The US often compares unfavorably with other countries in terms of per capita expenditures and
total health care spending. Addressing methodological issues associated with the comparability of
health care data is important to ensure that expenditures in the US are not over-reported relative to
other countries. Although OECD efforts to promote the use of the SHA have resulted in significant
improvements in the comparability of international health care cost data, more work is necessary to
ensure maximum comparability. Importantly, OECD’s efforts have increased the transparency of
health care cost reporting data and methods and have raised awareness about the variability among
national health accounting systems.

The Council believes that international comparisons of health system expenditures offer only
limited value in terms of helping countries identify strengths, weaknesses, or potential efficiency
improvements. Individual countries face unique realities shaped by history and culture that make it
unlikely that large scale “successes” in one country could translate into similar successes in
another. However, the Council is optimistic that improving the nature of health system accounting
will improve the ability of health policy experts to carefully analyze health care systems and
identify improvements that are appropriate in the overall context of health care system redesign.

Council on Medical Service Report 1-A-06 studied health expenditures within the US and, in its
comparison of public and private health care expenditures, concluded that use of consistent,
detailed and relevant health care cost accounting methodologies across all payers and sectors of the
health care system is critical to efforts to meaningfully analyze US health care spending. After
studying the SHA framework, the Council believes that a key benefit of improving the
comparability of health care data is that it will enable analysts to examine multiple dimensions of
resource use and to identify patterns and relationships between the different elements of a health
care system. Regardless of the level of spending across countries, important policy decisions can
be guided by an increased knowledge of how countries use the resources they have.