









The Importance of the Health Care Sector to the Kansas Economy

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- Executive Summary -

Economic impact arises directly from the sales, wages and employment generated by business activity. It also arises indirectly through the "ripple" effect of businesses purchasing goods and services from other local businesses, and through health care workers spending wages and other income for household goods and services. These linkages tend to distribute the impact of an activity or event very broadly throughout the economy.

This report estimates the economic contribution associated with the health care sector to the State of Kansas. The estimates presented represent the annual contribution to the state's economy renewed each year by the continuing activity in the sector.

Estimated Total Economic Contribution of the Health Care System to the Kansas Economy, 2013 (2013\$)

	Total	Total Income	Retail Sales
Sector	Employment	(millions)	(millions)
Health and Personal Care Stores	15,810	\$603	\$190
Veterinary Services	7,235	\$221	\$70
Offices of Physicians	44,746	\$3,216	\$1,014
Offices of Dentists	14,717	\$792	\$250
Offices of Other Health Practitioners	13,003	\$581	\$183
Outpatient Care Centers	13,501	\$630	\$199
Medical and Diagnostic Laboratories	6,643	\$393	\$124
Home Health Care Services	11,743	\$464	\$146
Other Ambulatory Health Care Services	3,094	\$153	\$48
Hospitals	152,172	\$8,116	\$2,559
Nursing and Residential Care	60,793	\$2,002	\$631
Residential Treatment Facilities	6,408	\$205	\$65
Fitness and Recreational Sports Centers	7,543	\$132	\$42
Health Services	357,408	\$17,508	\$5,520

Although the connections between health care services and local economic development are often overlooked, there are at least three important linkages to be recognized. A strong health care system can (1) help attract and maintain business and industry growth, (2) attract and retain retirees, and (3) create jobs in the local area. A vigorous and sustainable health care system is essential not only for the health and welfare of community residents, but to enhance economic opportunity as well.

While industry trends related to health care are generally positive, significant challenges remain for many communities. If a community wants to maintain the benefits associated with accessible and affordable health care, it must actively work to meet these challenges. The challenges cannot be met by those directly responsible for health care administration alone. They require a community-wide response involving government, business and civic leaders. It also requires supportive state- and federal-level policies and programs to assist communities that may not have the wherewithal to respond to all of the needs that may exist.

Introduction

Though the connections between health care services and local economic development are often overlooked, there are at least three important relationships to be recognized. A strong health care system can help attract and maintain business and industry growth, attract and retain retirees, and also create jobs in the local area.

Studies have found that quality of life factors play a dramatic role in business and industry location decisions. Health care services represent some of the most significant quality of life factors for at least three reasons. First, good health and education services are imperative to industrial and business leaders as they select a community for location. Employees and participating management may offer strong resistance if they are asked to move into a community with substandard or inconvenient health services. Secondly, when a business or industry makes a location decision, it wants to ensure that the local labor force will be productive, and a key productivity factor is good health. Thus, investments in health care services can be expected to yield dividends in the form of increased labor productivity.

The third factor that business and industry consider in location decisions is cost of health care services. A 1990 site selection survey concluded that corporations looked carefully at health care costs, and sites that provided health care services at a low cost sometimes received priority. In fact, 17 percent of the respondents indicated that their companies used health care costs as a tie-breaking factor between comparable sites.

A strong and convenient health care system is important to retirees, a special group of residents whose spending and purchasing can provide a significant source of income for the local economy. Retirees represent a substantial amount of spending, including the purchasing power associated with pensions, investments, Social Security, Medicare and other transfer payments. Additionally, middle and upper income retirees often have substantial net worth. Although the data are limited, several studies suggest health services may be a critical variable that influences the location decision of retirees. For example, one study found that four items were the best predictors of retirement locations: safety, recreational facilities, dwelling units, and health care. Another study found that nearly 60 percent of potential retirees said health services were in the "must have" category when considering a retirement community. Only protective services were mentioned more often than health services as a "must have" service.

Job creation represents an important goal for most local economic development programs. National employment in health care services increased by 75 percent from 1990 to 2010, and by approximately 350 percent since 1970. In rural areas, in particular, employment in health-related services often accounts for 10 to 15 percent of total employment. This reflects the fact that the hospital is often the second largest employer in a rural community (local government including schools typically being the largest employer).

Another important factor is the growth of the health sector. Health services, as a share of gross domestic product (GDP), have increased substantially over time. As shown in Table 1, Americans spent \$74.9 billion on health care in 1970, which accounted for 7.0 percent of the GDP. In 2012, health care costs increased to nearly \$2.82 trillion, or 17.2 percent of the GDP. If current trends continue, projections indicate that Americans will spend 19.3 percent of GDP on health care by 2023. Capturing a share of this economic growth can only help a community. This research considered the economic contribution of the health care system to the State of Kansas economy.

Table 1. United States Health Expenditure and Employment Data for 1970-2013; Projected for 2016, 2019 & 2023

	Total	Per Capita	Health	Health	Avg. Annual	
	Health	Health	as%	Sector	Increase in	
	-	Expenditures	of GDP	Employment	Employment	
Year	(\$ billions)	(\$)	(%)	(thousands)	(%)	
1970	\$75	\$356	7.0%	3,052		
1980	\$256	\$1,110	8.9%	5,278	7.3%	
1990	\$724	\$2,855	12.1%	7,814	4.8%	Employment
2000	\$1,378	\$4,881	13.4%	10,103	2.9%	Based on
2001	\$1,495	\$5,243	14.1%	10,381	2.8%	SIC ¹
2002	\$1,638	\$5,694	14.9%	10,673	2.8%	
2003	\$1,778	\$6,129	15.4%	11,816	N/A	
2004	\$1,906	\$6,508	15.5%	12,056	2.0%	
2005	\$2,035	\$6,887	15.5%	12,314	2.1%	
2006	\$2,167	\$7,265	15.6%	12,602	2.3%	
2007	\$2,304	\$7,652	15.9%	12,946	2.7%	Employment
2008	\$2,414	\$7,944	16.4%	13,289	2.6%	Based on
2009	\$2,506	\$8,175	17.4%	13,542	1.9%	NAICS ²
2010	\$2,604	\$8,428	17.4%	13,778	1.7%	
2011	\$2,705	\$8,698	17.3%	14,027	1.8%	
2012	\$2,817	\$8,996	17.2%	14,281	1.8%	
2013	\$2,919	\$9,255	17.6%	14,509	1.6%	
Projection	ıs					
2016	\$3,386	\$10,447	17.7%			
2019	\$4,042	\$12,131	18.1%			
2023	\$5,159	\$14,945	19.3%			

Sources: Bureau of Labor Statistics; U.S. Department of Labor; Employment, Hours, and Earnings

www.bls.gov/webapps/legacy/cesbtab1.htm

and the Center for Medicare & Medicaid Services,

National Health Expenditures 1970-2013 and National Health Expenditure Projections 2016-2023, website:

http://cms.hhs.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/

NationalHealthExpendData/index.html, updated 9/17/2014 and 12/9/14.

N/A - Not Available

Scope and Objectives

This report presents estimates of the "gross" contribution associated with the health care sector to economic activity in the State of Kansas. The economic contribution attributable to the health care sector in the state is measured in four different areas: 1) additional output (sales) 2) additional income 3) the number of jobs that the health care sector supports directly and indirectly and 4) the additional local and state tax revenue that the health sector generates.

¹ Based on Standard Industrial Classification (SIC) codes for health sector employment.

² Based on North American Industry Classification System (NAICS) for health sector employment.

Analysis Method

Social Accounting Matrix (SAM) analysis is a system of accounting for the economic transactions occurring in a state or regional economy over a period of one year. A SAM model creates a "computerized spreadsheet," charting the flow of dollars between local business sectors, households, government, and other non-local consumers of locally-produced goods and services. SAM analysis enables estimates of how spending in one area of the economy "ripples" through the economy to other sectors.

The SAM modeling system used for this analysis is the IMPLAN (Impact Analysis for Planning) system originally developed by the U.S. Forest Service (IMPLAN Group, LLC). The IMPLAN system consists of the software necessary to construct economic accounts, an impact analysis routine, and state- and county-level data files containing information related to economic activity. A 459 industry sector model was built for the State of Kansas and calibrated to 2013, the most recent year the necessary data were available. Health sector employment was updated to annual average from 3rd Quarter, 2013 through 2nd Quarter, 2014 levels using the Kansas Department of Labor's Quarterly Census of Employment and Wages.

Direct and Indirect, and Induced Economic Contributions

Economic impact arises directly from the sales, wages, and employment generated by business activity. It also arises indirectly through the "ripple" effect of businesses purchasing goods and services from other local businesses and through health care workers spending wages and other income for household goods and services. These linkages tend to distribute the impact of an activity or event very broadly throughout the economy.

The total economic contribution of the health care sector to the Kansas economy, also known as the multiplier effect, is equal to the sum of three components: the direct effect, the indirect effect, and the induced effect. The direct effect is the immediate upshot caused by consumer expenditures for health care products and services. Due to the interactions between firms, industries, and social institutions that naturally occur within the regional economy, the direct effect initiates a series of iterative rounds of income creation, spending and re-spending that result in indirect and induced effects. The indirect effects are changes in production, employment and income that result from the inter-industry purchases triggered by the direct effect. Finally, induced effects arise due to changes in household income and spending patterns caused by direct and indirect effects.

Since the total impact of the health care sector expenditures is a multiple of the initial expenditures, the total effect is expressed as a multiplier effect, that is, the sum of the direct, indirect and induced effects. Therefore, the total impact of the health care sector on the Kansas economy is larger than the initial expenditures. For example, an output multiplier of 1.5 indicates that for every million dollars spent (direct expenditure) an additional \$0.5 million is generated within the Kansas economy. Similarly, an employment multiplier of 1.6 indicates that for each job created by direct expenditure, an additional 0.6 jobs are created or supported due to business (indirect) and household (induced) spending.

In SAM analysis, the entire process is compressed into a one-year time frame. The impact analysis estimates the direct, indirect, and induced effects as though the entire process

occurred in that year. Each year the spending continues, the direct, indirect, and induced effects are replenished.

State Economic Overview

In 2013, the Kansas economy generated about \$327 billion in sales, the broadest measure of economic activity as shown in Table 2. Manufacturing was the largest economic sector in terms of total sales, accounting for 31.0 percent of total sales for the state. Services (including health care) was the next largest single sector with about 28.7 percent of the total sales. The service sector is generally the fastest growing economic sector.

The services sector (including health care) employed the largest number of workers at more than 950,000. This was over five times more than the number of workers employed by the manufacturing sector. One economic measure of efficiency is the output-per-worker ratio. Dividing sales by the number of full- and part-time employees, the manufacturing sector had the largest output per worker ratio at nearly \$598,000 per worker. The state average was about \$171,500 per worker while the health sector had about \$97,800 per worker. The relatively smaller ratio for health care suggests higher labor intensity needed to deliver these services. Health care services were separated from the service and retail trade sectors in Table 2 but not double counted in the totals.

Table 2. Direct Contributions to the Kansas Economy by Economic Sector, 2013 (2013\$)

		Total Sales	Labor Income	Total Income
Sector	Employment	(millions)	(millions)	(millions)
Agriculture	72,232	\$18,163.2	\$2,891.8	\$6,649.8
Mining	34,107	\$8,667.3	\$2,615.0	\$5,038.5
Construction	82,739	\$14,447.1	\$4,965.6	\$5,085.5
Manufacturing	169,884	\$101,563.3	\$13,159.0	\$23,830.0
TIPU	63,468	\$19,373.7	\$4,785.3	\$11,297.6
Trade	240,145	\$28,003.1	\$9,734.1	\$17,798.2
Services (Other than Health)	738,694	\$93,806.0	\$29,081.7	\$54,135.0
Health Services	221,501	\$21,663.8	\$11,930.0	\$12,523.2
Government	284,705	\$21,424.2	\$15,933.7	\$19,689.8
Total	1,907,476	\$327,111.7	\$95,096.1	\$156,047.6

TIPU is Transportation, Information and Public Utilities.

The health sector is detailed in Table 3. The numbers for each sector include not only the professionals in the sector (the doctors, dentists, etc.) but also support staff (assistants, clerks, receptionists, etc.) employed by the business. In the health sector, the Health and Personal Care Stores category includes pharmacies. For the first time, we are able to separately account for offices of physicians and dentists. Other Health Practitioners category includes chiropractors, optometrists, physical therapists, and other health care practitioners. Outpatient Care Centers include mental health, kidney dialysis, and other ambulatory surgical and emergency care centers. Other Ambulatory Health Care Services includes services such as ambulance services, blood banks, and other miscellaneous ambulatory health care services. We also are

now able to break out Residential Treatment Facilities (intellectual and developmental disabilities, inpatient mental health and substance abuse facilities) from Nursing and Residential Care. Also removed from Nursing and Residential Care are facilities that provide largely non-medical custodial care. What remains are nursing homes and assisted living facilities.

Focusing on the health care services sector, the combined health care sectors accounted for over \$21.7 billion in total sales, or about 6.6 percent of the state total.

Table 3. Direct Contributions to the Kansas Economy by Health Care Sector, 2013-14 (2013\$)

-		Total Sales	Labor Income	Total Income
Sector	Employment	(millions)	(millions)	(millions)
Health and Personal Care Stores	10,977	\$876.0	\$404.3	\$551.6
Veterinary Services	5,365	\$326.6	\$144.1	\$146.5
Offices of Physicians	23,787	\$2,972.4	\$2,364.8	\$2,028.3
Offices of Dentists	9,271	\$1,103.9	\$569.9	\$753.9
Offices of Other Health Practitioners	8,740	\$1,031.9	\$410.7	\$763.4
Outpatient Care Centers	7,682	\$987.9	\$396.1	\$481.7
Medical and Diagnostic Laboratories	4,097	\$395.5	\$285.9	\$257.8
Home Health Care Services	8,817	\$438.8	\$348.5	\$318.8
Other Ambulatory Health Care Services	2,018	\$187.5	\$107.7	\$112.7
Hospitals	84,210	\$10,379.2	\$5,272.1	\$5,380.8
Nursing and Residential Care	45,228	\$2,501.2	\$1,392.2	\$1,453.8
Residential Treatment Facilities	5,058	\$223.4	\$152.5	\$152.2
Fitness and Recreational Sports Centers	6,250	\$239.7	\$81.2	\$121.7
Health Services	221,501	\$21,663.8	\$11,930.0	\$12,523.2

Health care services employed about 221,500 people, or 11.6 percent of all job holders in the state. This compares to about 10.2 percent of all job holders in the United States working in health care services. Health care services were tied with retail trade as the third largest aggregate employer in the state (Figure 1). Health care generated \$12.5 billion in total income and over \$21.6 billion in total sales. As shown in Figures 2 and 3, the health care sector also was the fifth largest producer of total income (Figure 2) and the fourth largest producer of total sales (Figure 3). The health sector plays an important direct role in the state's economy.

Figure 1. Kansas Employment by Economic Sector, 2013

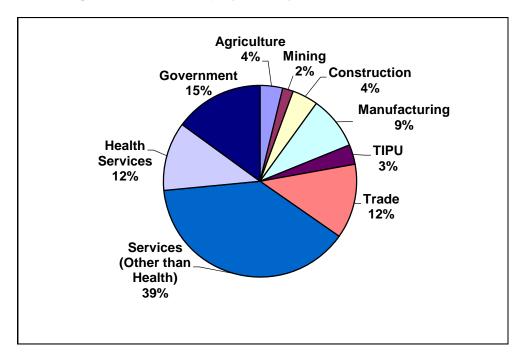
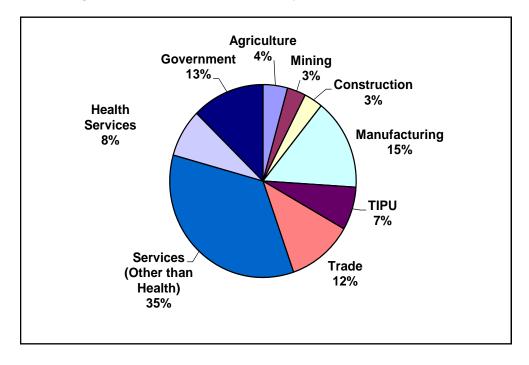


Figure 2. Kansas Total Income by Economic Sector, 2013



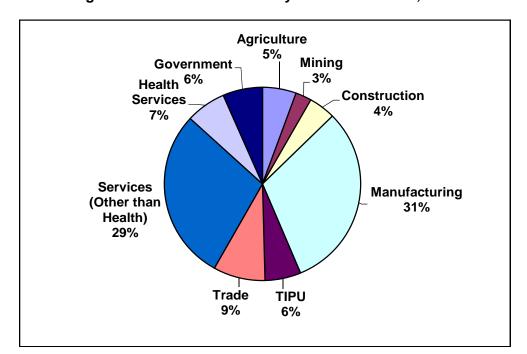


Figure 3. Kansas Total Sales by Economic Sector, 2013

Total Economic Contribution of Health Care

Tables 4 and 5 illustrate the ripple effect in the state. As an example, Table 4 shows that the hospital sector employed an average 84,210 people in 2013-14 and had an employment multiplier of 1.81 (rounded). This means that for each job created in the hospital sector, another 0.81 jobs were supported in other businesses and industries in the state's economy. The direct impact of the 84,210 hospital employees resulted in an indirect impact of 67,962 jobs throughout all businesses and industries in the state. Thus, the hospital sector employment had a total impact on state employment of 152,172 jobs (discrepancies due to rounding).

Similarly, multiplier analysis can estimate the total impact of the approximately \$5.3 billion direct income paid to hospital employees shown in Table 5. The hospital sector had an income multiplier of 1.54 which indicates that for every one dollar of income generated in the hospital sector, another \$0.54 was generated in other businesses and industries in the state's economy. Thus, the hospital sector had an estimated total impact on income throughout all businesses and industries of \$8.1 billion (discrepancies due to rounding).

Table 4. Kansas Health Sector Contribution to State Employment, 2013-14

	Direct	Employment	Total
Sector	Employment	Multiplier	Employment
Health and Personal Care Stores	10,977	1.44	15,810
Veterinary Services	5,365	1.35	7,235
Offices of Physicians	23,787	1.88	44,746
Offices of Dentists	9,271	1.59	14,717
Offices of Other Health Practitioners	8,740	1.49	13,003
Outpatient Care Centers	7,682	1.76	13,501
Medical and Diagnostic Laboratories	4,097	1.62	6,643
Home Health Care Services	8,817	1.33	11,743
Other Ambulatory Health Care Services	2,018	1.53	3,094
Hospitals	84,210	1.81	152,172
Nursing and Residential Care	45,228	1.34	60,793
Residential Treatment Facilities	5,058	1.27	6,408
Fitness and Recreational Sports Centers	6,250	1.21	7,543
Health Services	221,501		357,408

Table 5. Kansas Health Sector Contribution to State Income and Retail Sales, 2013-14 (2013\$)

	Direct	Labor	Total	Retail	6.15%
	Labor Income	Income	Income	Sales	Sales Tax
Sector	(millions)	Multiplier	(millions)	(millions)	(millions)
Health and Personal Care Stores	\$404.3	1.49	\$603.2	\$190.20	\$11.7
Veterinary Services	\$144.1	1.53	\$221.0	\$69.68	\$4.3
Offices of Physicians	\$2,364.8	1.36	\$3,216.3	\$1,014.12	\$62.4
Offices of Dentists	\$569.9	1.39	\$792.5	\$249.87	\$15.4
Offices of Other Health Practitioners	\$410.7	1.41	\$580.6	\$183.08	\$11.3
Outpatient Care Centers	\$396.1	1.59	\$630.0	\$198.65	\$12.2
Medical and Diagnostic Laboratories	\$285.9	1.37	\$392.8	\$123.86	\$7.6
Home Health Care Services	\$348.5	1.33	\$463.6	\$146.16	\$9.0
Other Ambulatory Health Care Services	\$107.7	1.42	\$152.5	\$48.10	\$3.0
Hospitals	\$5,272.1	1.54	\$8,115.8	\$2,558.98	\$157.4
Nursing and Residential Care	\$1,392.2	1.44	\$2,001.9	\$631.22	\$38.8
Residential Treatment Facilities	\$152.5	1.35	\$205.3	\$64.73	\$4.0
Fitness and Recreational Sports Centers	\$81.2	1.63	\$132.2	\$41.67	\$2.6
Health Services	\$11,930.0		\$17,507.7	\$5,520.3	\$339.5

In this manner, the total employment and income impacts of all the health care services sectors can be estimated. In Table 4, the total employment impact of the health services sector results in an estimated 357,408 jobs in the state economy. Referring back to Table 2, we can say that health care is directly or closely related to about 18.7 percent of all Kansas employment. In Table 5, the total income impact of health care services resulted in an estimated \$17.5 billion for the economy. Thus, health care is directly or closely related to about 11.2 percent of the state's total income.

The second to last column in Table 5 shows the retail sales that the health sector helps to generate. To estimate this, this study incorporated a retail sales capture ratio (retail sales to total personal income). Kansas had retail sales of about \$40.1 billion and \$127.1 billion total personal income in 2013. Thus, the estimated retail sales capture ratio equals 31.5 percent. This says that people spent 31.5 percent of their income on retail goods and services within the state. By taking all of the household income associated with health sector activities and multiplying by the retail sales capture ratio, we can estimate the impacts of the health sector on state retail sales. Thus, the total retail sales generated by the retail sector equaled \$5.5 billion (discrepancies due to rounding). This is a conservative estimate insofar as only retail sales associated with labor income is considered and not the impact of any local purchases made by the health services businesses.

The state of Kansas has an effective sales tax rate of 6.15%. Applying this rate to the retail sales, it was estimated that the health care sector generated \$340 million in sales tax revenue for the state. This does not include the additional revenue generated by local sales taxes. While it should be noted that prescription drugs and other medical supplies may be exempt from sales tax, the \$340 million in sales tax revenue is most likely a conservative estimate because it was calculated from the similarly conservative retail sales estimate.

Estimating Tax Impacts from the Social Accounting Matrix

The social accounting matrix is a comprehensive accounting system. It includes transactions occurring between production sectors as well as transactions occurring between government and households and between government and production sectors. In so doing, information related to tax transfers is available. This information can be used to estimate the tax impacts associated with industry sectors or economic events.

There are several important assumptions (limitations) in using a social accounting matrix to estimate tax impacts. The first is that the distribution of tax impacts associated with any given event will be the same as the average tax distribution as pictured in the base year of the accounts. This means that the distribution associated with small economic changes will be the same as large ones. The SAM cannot distinguish a tax that may have variable rates depending on the size of the change. For example, the SAM would overestimate the impact of a small change in a progressive tax and underestimate the impact of a large change.

A second important assumption is that the distribution of taxes as shown in the SAM will hold regardless of the industries affected. That is, the SAM represents an average for the state and will treat any change the same regardless of the industry affected. Thus, the tax impacts associated with tourism spending will be treated the same as the tax impacts associated with changes in gas and oil production, despite that very different taxes would be involved in either activity.

Finally, using a SAM to estimate tax impacts only considers the revenue side of the equation. There is no information related to the costs of providing government services to an industry sector or household group. A full tax analysis would consider government expenditures as well as revenues.

Given these limitations, it is appropriate to recognize that estimates of tax impacts are only approximations. Still, public finances are an important part of the economic picture when trying

to understand the impacts of industries, events or policies. And, having limited information is generally better than having none. A more comprehensive analysis of the public finance impacts associated with Kansas health care sector was beyond the scope of this research.

The procedure used to estimate tax revenues was to reduce all of the health care sectors in the model to a single job in each sector while maintaining the job-to-sales and job-to-income relationships earlier calculated. Then, employment in all the sectors was simultaneously increased to the estimated 2013-14 levels. The observed tax revenue generated was then reported.

Table 6 shows the combined federal and state/local tax revenues associated with the industry sector activity. It was estimated the federal government collected approximately \$3.75 billion in tax revenues, and that state and local governments garnered approximately \$1.55 billion from the varied activities associated with health care sector in 2013.

Summary and Conclusion

This report documented the relative importance of the health care sector to the Kansas economy. While the estimates of economic impact are substantial, they are only a partial accounting of the benefits to the state. Health care industries, especially in rural counties, help to preserve the population base, invigorating the communities and school systems. Similarly, many hospitals and nursing care facilities have active community outreach programs that enhance community services and the quality of life for community residents.

A vigorous and sustainable health care system is essential not only for the health and welfare of community residents, but to enhance economic opportunity as well. Health-related sectors are among the fastest growing in economy. Given demographic trends, this growth is likely to continue. The attraction and retention of new business and retirees also depends on access to adequate health care services.

While industry trends related to health care are positive overall, significant challenges remain for many areas. If a community wants to maintain the benefits associated with accessible and affordable health care, it must actively work to meet these challenges. The challenges cannot be met by those directly responsible for health care administration alone. They require a community-wide response involving government, business and civic leaders. Further, they require supportive state and federal policies and programs to meet all of the needs of individuals and communities.

Table 6. Estimated Federal, State and Local Tax Collections Associated with the Kansas Health Care Sector, 2013\$

		Employee	Proprietary Income	Indirect Business Tax	Household	Enterprises	Total (\$)
	Revenue Source	Compensation (millions)	(millions)	(millions)	Expenditures (millions)	(Corporations) (millions)	millions)
	Dividends	(11111110110)	(1111110110)		(IIIIIIOIIO)	\$1.3	\$1.3
	Social Insurance Tax- Employee Contribution	\$7.5				7	\$7.5
	Social Insurance Tax- Employer Contribution	\$14.5					\$14.5
	Indirect Business Tax: Sales Tax			\$560.0			\$560.0
	Indirect Business Tax: Property Tax			\$461.9			\$461.9
	Indirect Business Tax: Motor Vehicle License			\$10.4			\$10.4
State/Local	Indirect Business Tax: Severance Tax			\$16.7			\$16.7
Government	Indirect Business Tax: Other Taxes			\$21.3			\$21.3
Non-	Indirect Business Tax: State/Local Non-Taxes			\$10.1			\$10.1
Education	Corporate Profits Tax					\$20.3	\$20.3
	Personal Tax: Income Tax				\$333.7		\$333.7
	Personal Tax: NonTaxes (Fines-Fees)				\$56.0		\$56.0
	Personal Tax: Motor Vehicle License				\$17.1		\$17.1
	Personal Tax: Property Taxes				\$7.2		\$7.2
	Personal Tax: Other Tax (Fish/Hunt)				\$12.4		\$12.4
	Sub-total	\$22.0	\$0.0	\$1,080.3	\$426.4	\$21.6	\$1,550.3
	Social Insurance Tax- Employee Contribution	\$1,060.4	\$87.4				\$1,147.8
	Social Insurance Tax- Employer Contribution	\$1,053.0					\$1,053.0
Federal	Indirect Bus Tax: Excise Taxes			\$92.3			\$92.3
Government	Indirect Bus Tax: Custom Duty			\$38.2			\$38.2
Non-Defense	Indirect Bus Tax: Federal Non-Taxes			\$9.7			\$9.7
	Corporate Profits Tax					\$262.3	\$262.3
	Personal Tax: Income Tax				\$1,150.1		\$1,150.1
	Sub-total	\$2,113.4	\$87.4	\$140.3	\$1,150.1	\$262.3	\$3,753.6
	Total	\$2,135.4	\$87.4	\$1,220.6	\$1,576.5	\$283.9	\$5,303.9