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The Concentration of Out-of-pocket Expenditures on Complementary and Alternative Medicine in the United States

Matthew A. Davis, DC, MPH and William B. Weeks, MD, MBA [Professor]

The Dartmouth Institute for Health Policy and Clinical Practice in Lebanon, NH

Abstract

Context—The most intense spenders on health services are considerably less healthy—49% report fair or poor health status compared to 15% of the general adult population— and are elderly. Such findings have important implications for addressing national health-care spending because interventions targeting those people who are in poor health could theoretically generate dramatic cost savings. Although the popularity of complementary and alternative medicine (CAM) in the US is well recognized, little is known about the distribution of out-of-pocket expenditures on CAM services.

Objective—This study examined the distribution of out-of-pocket expenditures on CAM health services in the US.

Design—The research team used data from the 2007 National Health Interview Survey to examine the distribution in the US of out-of-pocket expenditures on CAM services and the characteristics of adult (age ≥ 18 years) CAM users (n = 2972) according to spending.

Outcome Measures—Using complex survey-design methods, the research team generated national estimates of expenditures on CAM services and used linear regression adjusted for covariates to determine whether self-reported health status predicted CAM spending.

Results—According to our estimates, in 2007, over 30 million adults reported out-of-pocket expenditures on CAM services, and of these individuals, 7.2 million were heavy CAM spenders with a mean annual expenditure of \$1385. The highest quartile of CAM spenders accounted for \$10 billion of the \$13.9 billion spent nationally on CAM in 2007. Self-reported health status did not differ among groups with differing levels of CAM spending, $\hat{\beta} = 1.00$ (95% CI, 0.8–1.2).

Conclusions—Out-of-pocket spending on CAM is concentrated. Just a quarter of CAM users account for over 70% of all expenditures on CAM services, and health status does not appear to be associated with level of CAM spending.

Research has shown that a small fraction of the US population accounts for the bulk of expenditures on health services.^{1–3} Among noninstitutionalized US adults, only 30% of all adults account for 90% of all national health-care expenditures, a percentage that has remained relatively stable for the last several decades.³ The most intense spenders on health services are considerably less healthy—49% report fair or poor health status compared to 15% of the general adult population—and are elderly. Research has demonstrated this highly skewed distribution of spending on health services in many populations, such as those with chronic lower back pain,⁴ the Medicare population,⁵ and other groups.^{6,7} Such findings have

Corresponding Author: Matthew A. Davis, DC, MPH, matthew.a.davis@dartmouth.edu.

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important implications for addressing national health-care spending because interventions targeting those people who are in poor health could theoretically generate dramatic cost savings; however, whether these patterns exist among users of complementary and alternative medicine (CAM) is unknown.

CAM is a diverse collection of health services that a substantial number of Americans use and includes acupuncture, massage therapy, chiropractic care, natural products, and self-care therapies—such as yoga and herbal medicines and other natural dietary supplements. Conventionally, the definition of CAM does not include the use of vitamins or prayer therapy.⁸ In 2007 alone, individuals spent \$34 billion out-of-pocket on all forms of CAM, including all professional services as well as self-care measures.⁹ Of the total out-of-pocket expenditures on CAM, US adults spent approximately \$12 billion specifically on CAM professional services.

Despite the popularity of CAM and the numerous studies that have demonstrated high spending on CAM in the United States,^{10–13} little is known about the distribution of expenditures on CAM. Although a skewed distribution of expenditures on CAM may imply a smaller potential for cost containment through its use, information about this distribution would shed light on the market for CAM services and would be valuable for policymakers and payers to consider in determining whether public or private programs should cover CAM services.

Therefore, the research team used data from the 2007 National Health Interview Survey (NHIS) to examine the distribution of expenditures on CAM services.

METHODS

Design and Data Source

The research team used data from the 2007 National Health Interview Survey (NHIS), which is a nationally representative survey of the civilian, noninstitutionalized US population. In 2007, the NHIS included a supplemental questionnaire about adult respondents' use of 18 different CAM modalities. The 2007 CAM questionnaire is the most current and complete data source available on CAM use and spending in the United States.

The NHIS Adult Core, Family Core, and CAM questionnaires provided the data for this study. Dartmouth College's Committee for the Protection of Human Subjects determined the study to be exempt from institutional board review.

Sample

The research team examined the data from 23 393 adult (age ≥ 18 years) respondents to the Adult Core questionnaire in 2007 (response rate 78%) of whom 22 783 (97%) answered at least one question on the CAM questionnaire. The NHIS offered this questionnaire in both English and Spanish versions. The questionnaire asked respondents whether they had ever used 18 different CAM modalities, which the National Center for Complementary and Alternative Medicine has classified into five domains: (1) alternative medical systems, such as acupuncture, Ayurveda, or homeopathy; (2) biologically- based therapies, such as chelation therapy (removal of heavy metals from the body) herbals and nonvitamin supplements, and special diets; (3) manipulative- and body-based therapies, with the predominate CAM modalities being chiropractic care and massage therapy; (4) mind-body therapies, such as yoga, tai chi, and qigong; and (5) energy healing therapy. And if they had used these modalities, respondents were asked whether they had done so in the previous 12 months. The research team defined a CAM user as a respondent who reported using any CAM modality (excluding prayer and vitamins) in the previous 12 months.⁸ The team

examined the data for 2970 adult NHIS respondents who reported an expenditure on a CAM service (an expenditure on a visit to a CAM practitioner or a CAM class).

Measures

If respondents reported having seen a practitioner for a CAM modality, the NHIS asked them to estimate the number of visits they had made to CAM practitioners and the number of classes for CAM modalities that they had attended in the previous 12 months, as well as the approximate amount paid per visit or class. The research team used these variables to estimate the total out-of-pocket amount spent on CAM among NHIS respondents.⁹ The survey did not provide information about the amount that health insurance had covered for the few CAM services that are reimbursable in the United States, such as chiropractic care.

For CAM services, the 2007 NHIS collected information on the number of services consumed in the prior year, based on respondents' reported number of visits to CAM practitioners in the previous 12 months: 2 to 5 times, 6 to 10 times, 11 to 15 times, 16 to 20 times, and >20 times. As a previous report,⁹ the research team defined usage for each category to be the midpoint of the categories' intervals: 3.5, 8, 13, and 18 times, respectively, for the first four intervals. The team used an estimate of 21 visits for those respondents who reported visiting a CAM practitioner more than 20 times. For the estimated number of yoga, tai chi, or qi gong classes that a respondent had attended in the previous 12 months, the research team used the midpoint of the related options: 2 to 11 times per year, 2 to 3 times per month, 2 to 3 times per week, and 4 to 6 times per week. The team then converted the daily, weekly, and monthly values to annual estimates.

With regard to the amount paid per visit to a CAM professional or per class, the research team used each respondent's estimated amounts, from \$0 to \$499 (as a continuous measure), and used \$500 for reports of \$500 or more. The team multiplied this amount for each respective service by the number of visits or classes reported for the year to obtain the respondent's total expenditures on CAM services.

The research team restricted analyses to those respondents who spent between \$1 and \$10 000 per year on CAM. Twelve NHIS respondents spent more than \$10,000. The team separated the CAM-user population into quartiles based on population estimates. Of the 4114 respondents who reported using a CAM service in the previous 12 months, 1142 respondents had \$0 out-of-pocket expenditures (ie, they either received a free consultation or a third-party payer covered the service), and therefore the research team did not include them in the study. The expenditure quartiles were: (1) Quartile 1 (the lowest), with spending between \$1 and \$86; (2) Quartile 2, with spending between \$87 and \$209; (3) Quartile 3, with spending between \$210 and \$519; and (4) Quartile 4 (the highest), with spending between \$520 and \$10 000 on CAM.

Sociodemographic and Health Status Data

To determine whether CAM users differed based on their expenditure quartile, the research team compared the sociodemographic characteristics—age, sex, race/ethnicity, marital status, US region of residence, health-insurance type, education, and employment status—of low versus high CAM spenders. The team did not include personal earnings due to the large number of missing values in the NHIS data. The team aggregated race and ethnicity into the following categories: (1) Hispanic, (2) non-Hispanic white, (3) non-Hispanic black, and (3) other or multiple races.

Since research has shown that self-reported health status is a strong predictor of health and mortality,¹⁴ the research team used respondents' self-reports as the primary measure of health status and collapsed this variable into two categories: (1) excellent, very good, or

good, and (2) fair or poor. The team also reported the percentage of respondents who had any functional limitation (ie, any physical or cognitive limitation). The team used body mass index (BMI) of NHIS respondents in kg/m² to characterize respondents as obese (BMI ≥ 30) or nonobese.

OUTCOME MEASURES

To generate national estimates, the research team employed complex survey-design methods using the software Stata version 11.1 (College Station, Texas). These complex survey-design methods account for each respondent's probability of selection and for the NHIS' sampling methodology using application sampling strata, primary sampling units (PSUs), and person weight variables. The research team used χ^2 for categorical variables and a *t*-test for continuous variables to compare sociodemographic characteristics among quartiles and calculated the *P*-values comparing respondents with the lowest and highest expenditures on CAM.

Because differences in health status often explain variations in expenditures for health services, the research team used linear regression—adjusted for age, sex, education, marital status, and race/ethnicity—to determine if self-reported health status predicted CAM spending. The team transformed CAM spending into a logarithmic scale and used health status as a dichotomized variable in the linear regression model.

RESULTS

According to the current study's national estimates, just over 30 million US adults reported an out-of-pocket expenditure for at least one CAM service in 2007. The current study found that 7.4 million US adults were heavy CAM spenders (Table 1) with a mean annual expenditure of \$1385 compared to just \$45 for the lowest CAM expenditure quartile.

The total amount spent on all US CAM services was \$13.9 billion: (1) 60% of expenditures on manipulative and body-based therapies, (2) 24% on mind-body therapies, (3) 10% on alternative medical systems, and (4 and 5) 6.4% on biologically-based therapies and energy healing therapy.

Concentration of Expenditures

The research team found spending on CAM to be concentrated (Table 2). The highest expenditure quartile accounted for 72% of the nation's out-of-pocket expenditures on CAM (\$10 billion of the \$13.9 billion spent on CAM), while the lowest CAM expenditure quartile accounted for only 2.5%. Examining the distribution of CAM spending more closely, the research team found that the top 10% of CAM spenders accounted for nearly half of all CAM expenditures (\$6.6 billion of \$13.9 billion) and had a mean annual expenditure of \$2392 on CAM. The bottom 50% of CAM spenders accounted for only 10% of CAM expenditures (\$1.4 billion of \$13.9 billion) and had a mean annual expenditure of \$92 on CAM.

Spending Patterns by Expenditure Quartile

The highest quartile spent \$10 billion while the lowest spent \$348 million on CAM services (Table 3). Across all quartiles, over 50% of expenditures were on manipulative and body-based therapies (\$8.3 billion out of \$13.9 billion) with virtually all expenditures being on chiropractic or osteopathic manipulation and massage therapy, while biologically-based therapies comprised only 1% to 6% of CAM expenditures across quartiles. The highest quartile spent significantly more on mind-body therapies, with 29% of expenditures in the

highest quartile devoted to mind-body therapies compared to only 6% to 11% in the other three quartiles.

The lowest quartile spent \$283 million on manipulative- and body-based therapies, \$31.4 million on mind-body therapies, \$21.4 million on alternative medical systems, \$10.2 million on biologically-based therapies, and only \$2.8 million on energy healing therapy. The highest quartile spent \$5.2 billion on manipulative and body-based therapies, \$2.9 billion on mind-body therapies, \$1.1 billion on alternative medical systems, \$576 million on biologically-based therapies, and \$224 million on energy healing therapy (Figure 1 and Table 3). Expenditures on all specific CAM modalities increased from Quartile 1 to Quartile 4, except for special diets, biofeedback, and hypnosis, which decreased from Quartile 1 (lowest) to Quartile 2.

Characteristics of CAM Users by Quartile

Adults in the highest quartile were more likely to reside in the Northeast or the West and less likely to reside in the Midwest as compared to those in the other three quartiles, P -value $< .01$ (Table 1). Those in the highest quartile were more likely to be older, female, non-Hispanic white, unmarried, and more educated. The research team did not find statistically significant differences in employment status or health insurance across quartiles.

The team found little difference in health status and behavior measures across quartiles; for instance, 10.2% of the highest quartile reported a fair or poor health status compared to 11.6% in the lowest quartile (P -value = .42). Similarly, the research team found little difference in obesity status, in number of individuals with limitations, and in smoking status when comparing lowest and highest quartiles as well; however, those in the highest quartile were more likely to report consuming alcohol (P -value = .01).

In the team's multiple linear regression model, self-reported health status was not associated with CAM spending ($\hat{\beta} = 1.00$ (95% CI, 0.8–1.2) after adjustment for age, gender, education, marital status, and race/ethnicity.

DISCUSSION

The research team found that individuals in the highest quartile spent considerably more on CAM services than those in the lowest quartile: 72% of all out-of-pocket CAM expenditures were by the highest spenders, while the lowest CAM spenders accounted for just 2.5% of national expenditures. Considering that the 7.2 million adults in the highest quartile spent \$10 billion out-of-pocket on CAM, the team anticipated that these individuals might differ in health status when compared to lower spenders. Specifically, the team hypothesized that a lower health status might explain the larger consumption of CAM health services. The finding that health status did not differ based on CAM spending was unanticipated.

The team's finding that differences in health status did not account for a high concentration of expenditures on CAM services is somewhat divergent from previous studies of the distribution of spending on conventional medical services, such as studies that found that a poorer health status explained the larger expenditures of the high-spending groups.^{1–3} Therefore, consumer behaviors other than illness management, such as health promotion and illness prevention, may explain the very high CAM expenditures of a few individuals.^{15,16} Of course, another factor to consider is differences in access to CAM services, which likely vary geographically.

Many CAM users prefer CAM and some evidence exists that patient treatment preference alone may improve health outcomes.^{17,18} In addition, the current study suggests that CAM

users, as one collective group, are relatively homogenous, at least when it comes to health measures. Research has shown that CAM users, as compared to nonusers, are healthier and more active overall, and the current study adds the information by demonstrating that little variation in health status exists among CAM users according to level of spending.¹⁵

It is apparent that a sizeable group of Americans use these services, and the public demand for CAM continues to be strong. Although total expenditures on CAM are small when compared to the \$2.6 trillion spent on traditional medicine,¹⁹ it is impressive since these expenditures are out-of-pocket. The research team estimates that over 30 million US adults in 2007 had an out-of-pocket expenditure on a CAM service; this amount is lower than Nahin et al's previous report,⁹ because the current study's analyses did not include users with \$0 out-of-pocket expenditures; for example, free consultations or CAM services that third-party payers covered.

Limitations

This study has several limitations. First, the NHIS data are self-reported and collected retrospectively; these limitations are inherent to survey-based work. Therefore, errors may exist, especially in cases where the questionnaires asked respondents to recall their use of health-care services up to 12 months ago. The health-status measures were also self-reported, and therefore, medical or psychological conditions may affect them. Second, nonresponse is a potential limitation of the data that the current study used; however, in 2007, the adult response rate was excellent (78% for the Adult Core), and of these adult respondents, 97% completed the CAM supplemental questionnaire. Lastly, the research team based its estimates of CAM spending on the amount spent out-of-pocket on CAM services and neglects expenditures on CAM by private and governmental sources; nevertheless, with the exception of chiropractic care²⁰ and osteopathic medicine, most spending on CAM is out-of-pocket.⁹

CONCLUSION

As US health-care reform proceeds, important health-policy decisions pertaining to cost containment reside on the horizon. In light of the strong demand for US CAM services, the field needs to develop a better understanding of spending patterns on CAM services to inform policymakers' decisions in their consideration of CAM services during reform efforts regarding national health care. The current study has demonstrated that out-of-pocket expenditures on CAM are concentrated and that, among CAM spenders, expenditures are not associated with differences in health status. The field needs future studies to understand better the potential long-term impacts of CAM expenditures on population health.

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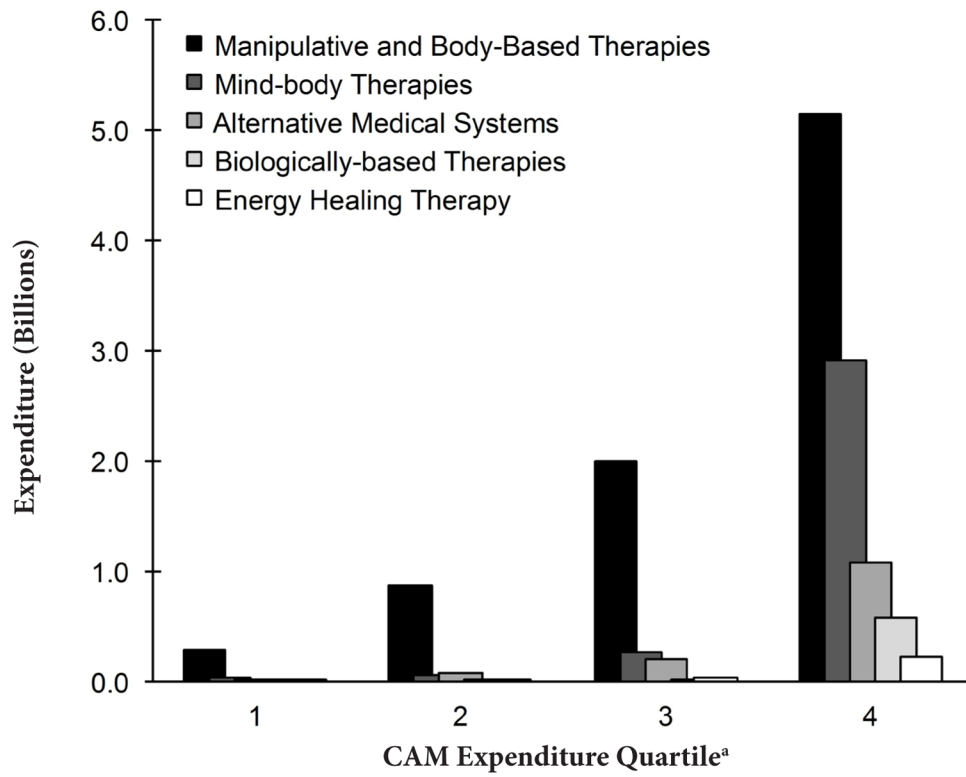


Figure 1. Out-of-pocket Expenditures on Complementary and Alternative Medicine Domains by Expenditure Quartile
^a>\$0 Q1 <\$87; \$87 Q2 <\$210; \$210 Q3 <\$520; \$520 Q4 \$10 000

Table 1
The Characteristics of US Adults that Used Complementary and Alternative Medicine Services by Out-of-pocket

	CAM Expenditure Quartile ^a				P-value for Difference between Lowest and Highest Quartile ^b
	1 (Lowest)	2	3 (highest)	4	
No. of NHHS Respondents (sample)	728	720	756	754	
Projected National Estimates					
No. of US adults (millions)	7.7	7.4	7.8	7.4	
% of US adult population	3.5	3.3	3.5	3.3	
US Region (%)					
Northeast	15.7	16.3	16.6	20.7	
Midwest	32.1	28.7	27.6	17.9	
South	25.3	26.8	31.0	28.1	< 0.01
West	26.9	28.1	24.9	33.3	
Sociodemographic Characteristics					
Age (mean)	43.4	44.3	44.9	46.4	0.02
% female	56.4	61.1	62.7	68.1	< 0.01
Race/Ethnicity (%)					
Hispanic	9.0	8.0	4.5	5.5	
Non-Hispanic White	80.4	82.0	84.5	85.6	
Non-Hispanic Black	4.5	3.4	5.0	2.6	0.03
Other or multiple races	6.1	6.5	6.0	6.2	
Marital status (%)					
married	62.9	62.4	64.5	55.2	
not married	37.1	37.6	35.5	44.8	0.01
Employment status (%)					
unemployed/retired	26.1	23.7	24.1	24.1	
employed	73.9	76.3	75.9	75.9	0.45
Education (%)					

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	CAM Expenditure Quartile ^d				P-value for Difference between Lowest and Highest Quartile ^b
	1 (Lowest)	2	3 (highest)	4	
less than high school	7.8	7.7	5.9	2.3	
high school graduate	23.8	21.5	15.4	14.9	
some college or associate's degree	35.5	34.5	30.6	31.4	< 0.01
bachelor's or graduate degree	32.9	36.3	48.1	51.4	
Health Insurance (%)					
private	37.8	32.4	32.4	35.2	
public	44.95	1.5	50.7	48.0	0.57
uninsured	17.2	16.1	16.9	16.9	
Health Status and Health Behaviors					
% Fair or Poor Self-reported Health Status	11.6	8.9	11.6	10.2	0.42
% Obese (body mass index ≥ 30.0kg/m ²)	25.3	25.5	25.6	23.2	0.39
% Any Functional or Cognitive Limitation	32.5	36.4	36.2	36.9	0.14
% Smokers	15.7	16.6	16.1	14.7	0.65
% Drinker	74.6	76.7	76.8	81.1	0.01

^aTotal annual expenditures on complementary and alternative medicine (CAM) by quartile: > \$0 Q1 < \$87; \$87 Q2 < \$210; \$210 Q3 < \$520; \$520 Q4 \$10 000

^bt-test used in comparison of means and #2 statistic used in comparison of proportions

Table 2

The Concentration of Out-of-pocket Expenditures on Complementary and Alternative Medicine (CAM)

Percentile of CAM User Population	Total Expenditures on CAM (billions of USD)	Percentage of National Expenditures on CAM	Mean Annual Expenditures on CAM (USD)
Top 1%	1.6	11	6685
Top 2%	3.5	25	5193
Top 5%	4.6	32	3432
Top 10%	6.6	48	2392
Top 25%	10.0	72	1385
Top 50%	12.5	90	839
Bottom 50%	1.4	10	92

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Table 3
Out-of-pocket Expenditures on Specific Complementary and Alternative Medicine (CAM) Modalities by Expenditure Quartile

	Total Out-of-Pocket Expenditures (millions of USD) by CAM Expenditure Quartile ^a					Total
	1 (Lowest)	2	3	4 (Highest)		
Alternative Medical Systems	21.4	70.1	199.0	1090.0	1380.5	
Acupuncture	11.9	48.3	132.0	631.0	823.2	
Ayurveda	0.0	0.5	3.0	15.1	18.6	
Herbal medicine	1.9	4.0	19.1	140.0	165.0	
Naturopathy	0.9	3.8	29.8	236.0	270.6	
Traditional Healers	6.7	13.4	14.6	68.3	103.0	
Biologically-Based Therapies	10.2	20.2	24.2	576.0	630.6	
Chelation Therapy	0.3	0.7	4.2	26.7	32.0	
Herbals and Non-vitamin Supplements	8.4	19.2	15.0	524.0	566.6	
Special Diets	1.5	0.4	5.0	25.1	32.0	