

NATIONAL PROFILE OF COMPLEMENTARY AND ALTERNATIVE MEDICINE (CAM) USE FOR CHILDREN WITH PAIN-RELATED CONDITIONS OR PROBLEMS (0-17 years)

Data Source: 2007 National Health Interview Survey (NHIS) – Family File, Person File, Sample Child File, Child Complementary and Alternative Medicine (CAM) File: 9,417 sample children age 0-17 years representing 73.7 million US children. NHIS linked to the 2008 Medical Expenditures Panel Survey (MEPS).

CAM use definition includes 39 CAM modalities asked about in the 2007 NHIS, including vitamins/minerals used to treat specific conditions in past 30 days (Figure 1.2). The CAM modalities were grouped by groupings set forth by NCCAM¹ (due to small sample size energy healing therapy was combined with alternative medical systems) and based on ease of accessibility and need for practitioners.

Condition groups: The 59 chronic and non-chronic conditions asked about in the 2007 NHIS Sample Child Core were grouped together into clinically relevant groupings (Table 2.2). CAM use prevalence ranged from 16.1% to 26.6% across condition groups. The highest prevalence of CAM use is reported among children with pain-related conditions or problems.

DEFINING PAIN-RELATED CONDITIONS/PROBLEMS

Six health conditions or problems asked about in the 2007 NHIS were grouped together to specify children with some type of pain-related conditions or problems: (a) parent has ever been told by a health professional that child has **arthritis** and (b) parent report that child experienced **frequent or severe headache including migraines, recurring headache other than migraine, back or neck pain, abdominal pain, other chronic pain** in the past 12 months.

- Over **8.9 million** children in the US are estimated to experience at least one pain-related condition or problem (as defined above), which represents **12.1%** of children 0-17 years old.
- Over one third (34.2%) of children with pain-related conditions or problems experience at least one other pain-related conditions or problems.

Table A. Population Estimate and Prevalence of Pain-Related Conditions or Problems Reported in Sample Child Core and Related Co-morbidity, Data: 2007 NHIS

Pain-related conditions or problems	Estimated child population	Weighted %	Among children with the condition/problem	
			% with other pain-related conditions/problems	% with other non-pain related chronic conditions
Frequent or severe headache including migraines (3-17 years)	3,260,624	5.3	63.2	87.0
Abdominal pain	3,659,102	5.0	40.4	86.3
Recurring headache other than migraine (3-17 years)	2,846,414	4.6	69.8	82.4
Back or neck pain	2,502,446	3.4	53.3	85.4
Other chronic pain	904,267	1.2	49.6	89.9
Arthritis	57,249	0.1	73.1	100

Non-pain related chronic conditions: anxiety, depression, DD/ADHD, phobia or fears, food or digestive allergies, frequent/repeated diarrhea or colitis, asthma, hay fever, respiratory allergies, lung or breathing problems other than asthma, allergies other than hay fever/respiratory/food/digestive/skin allergies, 3 or more ear infections, autism, cerebral palsy, Down syndrome, muscular dystrophy, mental retardation, speech problem, developmental delay, learning disability, seizure, other neurological problems, eczema or skin allergy, severe acne, cancer, congenital heart disease, cystic fibrosis, diabetes, other heart problems, fatigue or lack of energy, gum disease, anemia, sickle cell anemia, low birth weight, hearing problems, vision problems, recurring constipation, problem of being overweight, acid reflux or heartburn, menstrual problems, sleep problems, bed wetting.

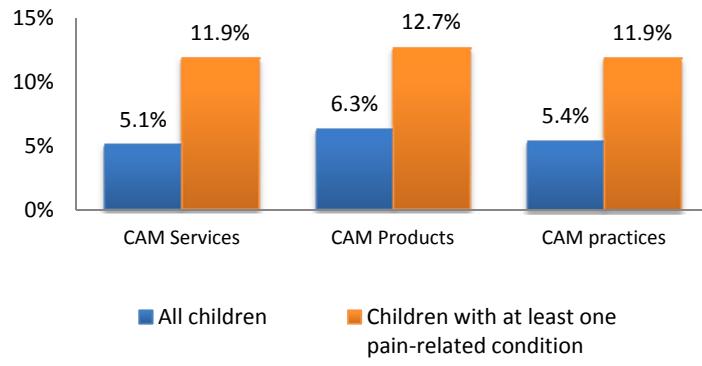
PART 1: CAM USE FOR CHILDREN WITH PAIN-RELATED CONDITIONS OR PROBLEMS

- Of the 12.1% children age 0-17 with **at least one** pain-related condition or problem, **26.6%** used any type of complementary and alternative medicine (CAM).
- Of the 12.9% of all children age 0-17 who used at least one type of CAM, 25.2% experienced one or more pain-related conditions or problems.

TYPES OF CAM MODALITIES USED BY CHILDREN

- Prevalence of CAM service, product and practice use is higher among children with pain-related conditions than all children (Figure 1.1). Over one-quarter (28.5%) of children who used one or more CAM service, 24.6% who used one or more CAM product and 26.8% who used one or more CAM practice experience at least one pain-related condition/problem in past 12 months/ever.

Figure 1.1. Use of CAM Types (Grouping A), All Children and Children with Pain-Related Conditions/Problems



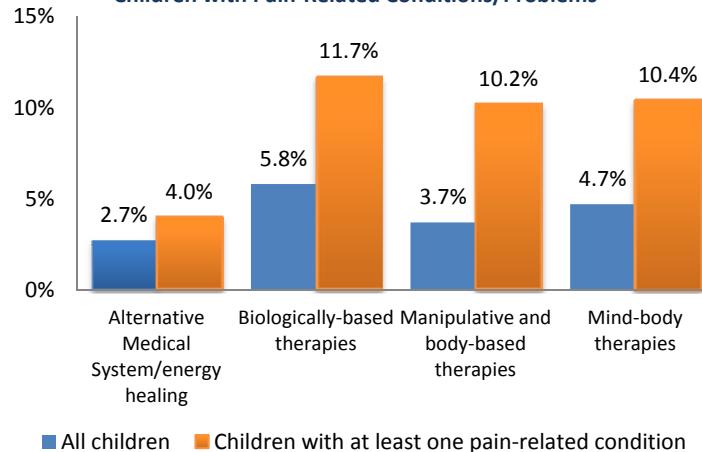
CAM services: acupuncture, Ayurveda, biofeedback, chelation, chiropractic or osteopathic manipulation, energy healing therapies, hypnosis, massage, naturopathy, traditional healers (Curandero, Espiritista, Hierbero or Yerbera, Shaman, Botanica, Native American Healer/Medicine Man, Sobador), movement therapies Feldenkrais, Alexander technique, Pilates, Trager psychophysical integration

CAM products: vitamins/minerals used to treat specific conditions in past 30 days, herbal supplements, homeopathy and 7 special diets (Vegetarian, Macrobiotic, Atkins, Pribkin, Omish, Zone, South beach)

CAM practices: movement therapies (Feldenkreis, Alexander technique, Pilates, Trager psychophysical integration), yoga, tai chi, qi gong, meditation, guided imagery, progressive relaxation, deep breathing exercises, 7 special diets, support group meetings, stress management class

- Prevalence of use of biologically-based and mind-body therapies is higher among children with EMB conditions than all children (Figure 1.2). Of the 18.0% children who used any Alternative Medical System or/and energy healing therapy, 24.5% who used any biologically-based therapy, 33.9% who used any manipulative and body-based therapy and 27.3% mind-body therapy users experienced at least one pain-related condition ever/in past 12 months.

Figure 1.2 Use of CAM Types (Grouping B), All Children and Children with Pain-Related Conditions/Problems



Alternative Medical System/Energy healing therapies: acupuncture, Ayurveda, homeopathic treatment, naturopathy, traditional healers (Curandero, Espiritista, Hierbero or Yerbera, Shaman, Botanica, Native American healer or Medicine man, Sobador) and energy healing therapies

Biologically-based therapies: chelation, herbal supplements, vitamins/minerals used to treat specific conditions in past 30 days, 7 special diets (Vegetarian, Macrobiotic, Atkins, Pribkin, Omish, Zone, South Beach)

Manipulative and body-based therapies: chiropractic or osteopathic manipulation, massage and movement therapies (Feldenkrais, Alexander technique, Pilates, Trager psychophysical integration)

Mind-body therapies: biofeedback, meditation, guided imagery, progressive relaxation, deep breathing exercises, hypnosis, yoga, tai chi, qi gong, support group meeting and stress management class

Table 1.1. Specific CAM Modalities Used, All Children and Children with Pain-Related Conditions/Problems, Data: 2007 NHIS

CAM modalities	All children who used the CAM modality (0-17 years)	Children with pain-related conditions/problems			Among CAM modality users, % of children with pain-related condition
		Children with pain-related conditions/problems who used the CAM modality	Pop. est.	W %	
Vitamins/minerals (past 12 m)	31,377,010	4,712,989	53.2	15.0	
Herbal supplements	2,850,194	722,190	8.2	25.3	
Chiropractic or osteopathic manipulation	2,019,779	689,661	7.8	34.1	
Deep breathing exercises	1,557,534	528,288	6.0	33.9	
Yoga	1,504,905	374,477	4.2	24.9	
Massage	742,854	278,607	3.1	37.5	
Meditation	724,648	244,676	2.8	33.8	
Support group meetings	439,022	183,921	2.1	41.9	
Homeopathy	907,235	175,417	2.0	19.3	
Special diets	564,684	136,530	1.5	24.2	
Stress management class	284,753	126,628	1.4	44.5	
Guided imagery	293,444	121,331	1.4	41.3	
Progressive relaxation	329,026	117,713	1.3	35.8	
Pilates	244,944	73,593	0.8	30.0	
Naturopathy	237,258	73,368	0.8	30.9	
Tai chi	112,633	45,748	0.5	40.6	
Energy healing	161,331	44,258	0.5	27.4	
Acupuncture	150,416	40,026	0.5	26.6	
Espiritista	509,893	39,101	0.4	7.7	
Biofeedback	119,398	34,492	0.4	28.9	
Alexander technique	53,568	24,791	0.3	46.3	
Medicine man	98,410	17,565	0.2	17.8	
Auyurveda	79,496	16,893	0.2	21.3	
Shaman	28,668	10,202	0.1	35.6	
Trager psychophysical integration	38,611	9,877	0.1	25.6	
Hierbero or Yerbera	39,717	9,840	0.1	24.8	
Feldenkreis	29,315	8,055	0.1	27.5	
Botanica	34,416	8,055	0.1	23.4	
Sobador	62,638	7,171	0.1	11.4	
Chelation	71,512	7,053	0.1	9.9	
Hypnosis	66,677	7,053	0.1	10.6	
Curandera	55,934	-	-	-	
Qi gong	50,419	-	-	-	

Note: Shaded cells do not meet standards of precision (relative standard error – RSE- is greater than 30%)

USE OF MULTIPLE CAM MODALITIES

- Of the 26.6% of children age 0-17 with pain-related conditions and who used any type of CAM, 38.6% used 2 or more CAM modalities (Figure 1.3).
- Of the 42.0% of children who experienced 2 or more pain-related conditions/problems and used CAM, 37.3% used 2 or more types of CAM modalities.
- The number of CAM modalities used by children increases when number of pain-related conditions child experiences increases (Figure 1.4)

Figure 1.3. Number of CAM Modalities Used by All Children and Children with Pain-Related Conditions/Problems, Data: 2007 NHIS

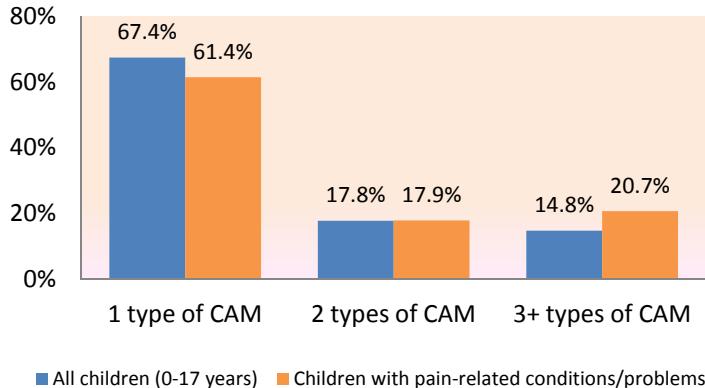


Figure 1.4. Number of Pain-Related (PR) Conditions Child Experiences, by Number of CAM Modalities Used, Data: 2007 NHIS

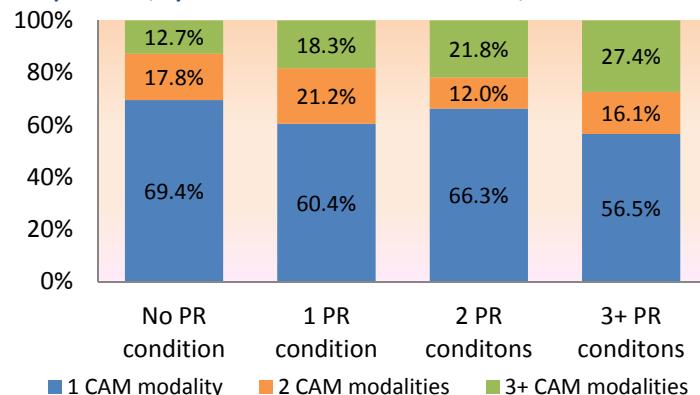


Table 1.2. Most Common Combinations of CAM Modalities among Children Who Experience Pain-Related Conditions/Problems

1 st Modality	2 nd Modality	Among children who used 1 st modality, % of children who used the 2 nd modality	Among children who used 2 nd modality, % of children who used the 1 st modality
Progressive relaxation	Deep breathing exercises	100	22.3
Guided imagery	Vitamins/minerals (past 12 months)	91.8	2.4
Guided imagery	Meditation	91.4	45.3
Energy healing therapy	Massage	89.6	14.2
Homeopathy	Vitamins/minerals (past 12 months)	86.8	3.2
Acupuncture	Vitamins/minerals (past 12 months)	85.1	0.7
Meditation	Vitamins/minerals (past 12 months)	82.5	4.3
Progressive relaxation	Meditation	82.3	39.6
Meditation	Deep breathing exercises	79.3	36.7
Naturopathy	Herbal supplements	79.1	8.0
Guided imagery	Deep breathing exercises	76.0	17.5
Herbal supplements	Vitamins/minerals (past 12 months)	75.7	11.6
Acupuncture	Massage	74.9	10.8
Biofeedback	Vitamins/minerals (past 12 months)	71.9	0.5
Energy healing therapy	Vitamins/minerals (past 12 months)	71.6	0.7
Progressive relaxation	Vitamins/minerals (past 12 months)	70.6	1.8
Deep breathing exercises	Vitamins/minerals (past 12 months)	69.7	7.8
Support group meetings	Deep breathing exercises	69.1	23.3
Stress management class	Vitamins/minerals (past 12 months)	68.4	1.8
Stress management class	Deep breathing exercises	66.9	16.0
Chiropractic/osteopathic manipulation	Vitamins/minerals (past 12 months)	65.0	9.5
Support group meetings	Vitamins/minerals (past 12 months)	64.6	2.5
Yoga	Vitamins/minerals (past 12 months)	62.8	5.0
Homeopathy	Chiropractic/Osteopathic manipulation	52.2	13.3
Massage	Chiropractic/Osteopathic manipulation	45.2	18.3
Homeopathy	Herbal supplements	44.5	10.8
Meditation	Yoga	41.7	27.3
Yoga	Deep breathing exercises	35.7	25.3
Chiropractic/osteopathic manipulation	Herbal supplements	27.6	26.3
Massage	Herbal supplements	25.6	9.6

Note: Shaded cells do not meet standards of precision (relative standard error – RSE- is greater than 30%)

PART 2: CHARACTERISTICS OF CHILDREN WITH PAIN-RELATED CONDITIONS/PROBLEMS

DEMOGRAPHIC CHARACTERISTICS

Table 2.1. Characteristics of All Children and Children with Pain-Related Conditions/Problems, Data: 2007 NHIS

Characteristics	All children (0-17 years)		Children with pain-related conditions/problems			
	Pop. est.	W %	Pop. est.	W %	CAM users ¹	Non-CAM users
All children	73,727,832	100	8,943,008	100	26.6	73.4
Age						
2-5 years	24,809,525	33.7	881,292	9.9	6.3	11.2
6-11 years	23,701,978	32.1	3,056,762	34.2	26.6	36.8
12-17 years	25,216,329	34.2	5,004,954	56.0	67.1	52.0
Sex						
Male	37,685,521	51.1	4,289,535	48.0	41.0	50.5
Female	36,042,311	48.9	4,653,473	52.0	59.0	49.5
Race/ethnicity						
Hispanic	15,349,523	20.8	1,803,720	20.2	14.7	22.0
White, non-Hispanic	41,810,558	56.7	5,532,474	61.9	72.8	58.2
African American, non-Hispanic	10,861,730	14.7	1,025,309	11.5	5.1	13.6
Asian, non-Hispanic	2,797,438	3.8	173,286	1.9	1.0	2.3
Multi/Other, non-Hispanic	2,908,583	3.9	408,219	4.6	6.5	3.9
Family income						
0-99% FPL	13,512,503	18.3	1,789,932	20.0	12.4	22.7
100-199% FPL	17,922,178	24.3	2,205,264	24.7	21.5	25.9
200-399% FPL	22,852,213	31.0	2,837,578	31.7	35.7	30.4
400% FPL or above	19,440,938	26.4	2,110,234	23.6	30.4	21.0
Birth place						
Born in US/US territory	70,643,250	95.9	8,423,840	94.2	95.7	93.6
Born outside of US	3,030,068	4.1	519,168	5.8	4.3	6.4
Geographic region						
Northeast	12,350,742	16.8	1,432,346	16.0	12.9	17.1
Midwest	17,447,893	23.7	2,216,193	24.8	27.7	23.9
South	27,199,661	36.9	3,331,926	37.3	28.3	40.4
West	16,729,536	22.7	1,962,543	21.9	31.2	18.6
Mother's education level						
Less than high school	20,680,659	16.1	1,225,396	14.7	7.7	17.3
High school diploma or GED	46,343,454	25.0	1,967,865	23.5	18.5	25.4
More than high school	6,410,419	58.9	5,168,227	61.8	73.8	57.4
Type of health insurance						
Public only	20,680,659	28.2	2,510,380	28.1	23.4	29.6
Any private	46,343,454	63.1	5,546,856	62.1	71.2	58.9
Uninsured	6,410,419	8.7	881,179	9.9	5.4	11.5

¹ CAM use includes vitamins/minerals used to treat specific conditions in past 30 days

Note: Shaded cells do not meet standards of precision (relative standard error – RSE- is greater than 30%)

CO-MORBIDITY OF CHILDREN WITH PAIN-RELATED CONDITIONS OR PROBLEMS

- Almost all (95.5%) children with pain-related conditions or problems experience at least one other chronic or non-chronic non-pain-related health condition or problem asked about in the 2007 NHIS.

Table 2.2. Conditions Types Reported for Children with Pain-Related Conditions/Problems, Data: 2007 NHIS

Condition Types Reported in Sample Child Core	Children with pain-related condition who also experience the condition type	Among children who experience the condition type, % of children with pain-related condition	Among children pain-related condition, % of children who experience the condition type
		Pop. est.	W %
Emotional, mental or behavioral	3,330,489	30.8	37.8
Gastroenterology	4,890,854	23.8	54.7
Respiratory/pulmonary	4,491,449	23.1	50.2
Common acute	7,678,120	16.9	85.9
Developmental	1,752,027	27.3	19.6
Other neurological	4,777,013	34.4	5.2
Sensory	908,299	21.0	10.2
Dermatological	2,837,229	23.9	31.7
Other	3,537,486	36.7	39.6

Note: Groups of conditions are not mutually exclusive; children may appear in more than one group

Emotional, mental or behavioral: anxiety or stress, depression, ADD/ADHD, phobia or fears, Insomnia/trouble sleeping, incontinence including bedwetting

Gastroenterology: food or digestive allergy, frequent diarrhea or colitis, acid reflux or heartburn, nausea/vomiting, recurring constipation

Respiratory/pulmonary: asthma with episode in past 12 months, hay fever, respiratory allergy, other lung or breathing problem, sinusitis, other allergies

Common acute: 3 or more ear infections, fever, head or chest cold, influenza or pneumonia, strep sore throat, other sore throat, urinary tract infection, nausea/vomiting

Developmental: autism, cerebral palsy (interviewing quartile 3 and 4), Down syndrome, muscular dystrophy, mental retardation, speech problem, other developmental delay, learning disability

Other neurological (not including migraines, non-migraine headache): seizure, other neurological problems

Sensory: hearing problem, vision problem

Dermatological: eczema or skin allergy, severe acne, warts, skin problems other than eczema, acne, warts

Other: cancer, congenital heart disease, chickenpox, cystic fibrosis, diabetes, other heart problems, problems with being overweight, menstrual problems, fatigue or lack of energy, gum disease, anemia, sickle cell anemia

- 83.0% of children with pain-related condition experienced at least one non-pain chronic condition or problem. There is a linear association between number of non-pain chronic conditions children with pain-related conditions experience and number of CAM use (Figure 1.5).

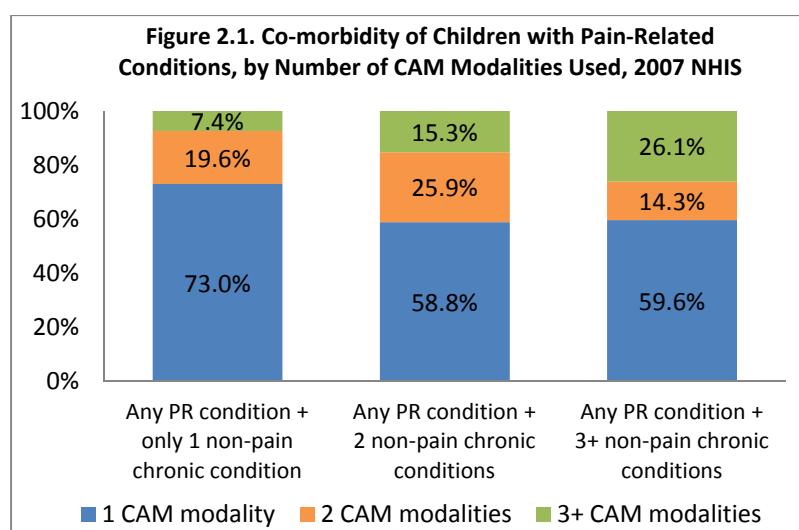


Table 2.3. Specific Conditions Reported for Children with Pain-Related Conditions/Problems, Data 2007 NHIS

Conditions Reported in Sample Child Core	Among children with at least one pain-related condition, % of children who experience the condition	Among children who experience the condition, % of children with at least one pain-related condition
Head or chest cold	69.1	16.9
Sore throat other than strep or tonsillitis	55.3	20.9
Fever	45.2	18.8
Nausea and/or vomiting	41.6	24.5
Menstrual problems (girls 10-17 years)	34.8	51.1
Strep throat or tonsillitis	24.4	24.6
Hay fever	23.2	27.8
Respiratory allergy	20.0	25.3
Fatigue or lack of energy	19.7	64.2
Sinusitis	19.1	32.0
Very low birth weight (0-2 years)	17.2	11.4
Learning disability (3-17 years)	15.9	29.5
Insomnia or trouble sleeping (3-17 years)	15.5	42.0
Eczema or skin allergy	14.9	20.3
Acid reflux or heartburn	14.9	42.3
Attention Deficit Hyperactivity Disorder or Attention Deficit Disorder (2-17 years)	13.3	26.3
Problems with being overweight	13.2	30.7
Influenza or pneumonia	12.8	24.4
Asthma with episode in past 12 months	12.5	29.1
Recurring constipation	11.6	29.8
3 or more ear infections	9.0	21.5
Severe acne	8.8	38.1
Food or digestive allergy	8.0	24.4
Other allergies	7.7	18.8
Other developmental delay	7.4	28.0
Warts	7.3	26.5
Skin problems other than eczema, acne, or warts	7.4	28.9
Phobia or fears (4-17 years)	6.4	36.3
Incontinence including bed wetting (4-17 years)	6.0	26.4
Hearing problem	5.9	19.6
Other lung and breathing problem	5.6	19.9
Vision problem	5.2	25.3
Frequent/repeated diarrhea or colitis	4.9	37.0
Speech problem (3-17 years)	4.4	39.9
Urinary tract infections	4.3	38.0
Other neurological problems	4.2	38.7
Anemia	4.2	40.6
Other heart condition	2.5	30.6
Autism	1.8	33.1
Gum disease	1.8	49.4
Seizures	1.6	25.8
Mental retardation	1.3	25.6
Chickenpox	0.7	11.1
Diabetes	0.7	51.5
Congenital heart disease	0.5	21.9
Down syndrome	0.3	27.3
Cancer	0.2	29.9
Cerebral palsy (Q3 and 4)*	0.1	4.3
Muscular dystrophy	0.05	22.8
Sickle cell anemia	0.04	2.9
Cystic fibrosis	-	-

Shaded cells do not meet standards of precision (relative standard error – RSE- is greater than 30)

Note: *Data for cerebral palsy includes only data from interviewing quartile of 3 and 4 due to survey instrument change error

PART 3: RELATIONSHIP BETWEEN CAM AND CONVENTIONAL MEDICAL CARE USE

- Children with pain-related conditions or problems who used CAM more likely to use conventional medical care (except hospitalization and emergency room visits) and experience access problems than children with pain-related conditions or problems who DID NOT use CAM.

Table 3.1. Utilization of Conventional Medical Care and Access Problems for Children with Pain-Related Conditions/Problems, by CAM use, Data: 2007 NHIS

Conventional Care Use and Access Problems	All children 0-17 years	Children with pain-related conditions/problems		
		All children	CAM users ³	Non-CAM users
		W %	W %	W %
Number of office visits to health professionals				
0-3 visits	69.2	51.8	37.8	56.8
4-7 visits	22.1	28.3	31.6	27.0
8 or more visits	8.7	19.9	30.6	16.2
Receive medical specialist care	13.2	27.1	36.0	23.8
Receive mental health care	6.8	15.7	28.0	11.2
1 or more emergency room (ER) visit	20.2	32.4	33.9	32.0
Hospitalization, not including birth	2.7	5.8	5.3	6.1
Receive special therapies such as physical therapist, speech therapist, respiratory therapist, audiologist, or occupational therapist due to health issue	5.4	11.3	16.7	9.3
Regularly taken prescription medications for at least 3 months	12.3	27.0	34.8	24.3
Receive Special Education or Early Intervention Services	6.5	12.8	16.0	11.7
At least one medical care access problem (unmet need ¹ or/and care delay ²)	16.1	32.0	36.0	30.8
Unmet need for medical health care due to cost	2.5	4.9	5.5	4.7
1 or more reasons of medical care delay ²	9.7	19.2	25.2	17.1

¹ unmet needs for Rx med, medical, mental, dental health care, eyeglasses due to cost

²due to logistics reasons: couldn't get through on the telephone, couldn't get appointment soon enough, wait too long, wasn't open when get there, didn't get transportation

³ CAM use includes vitamins/minerals used to treat specific conditions in past 30 days

Table 3.2. Combination of Specific CAM Modalities and Conventional Medical Care Experience among Children with Pain-Related Conditions/Problems

CAM modality vs. Specialist care	Among CAM modality users, % of children who received specialist care	Among children who received specialist care, % of children who used the CAM modality
Yoga	49.0	7.7
Massage	42.8	5.0
Deep breathing exercises	41.7	9.2
Meditation	41.6	4.3
Homeopathy	38.1	2.8
Herbal supplements	37.7	11.4
Chiropractic/osteopathic manipulation	29.5	8.5
Vitamins/minerals (past 12 months)	28.4	55.6
CAM modality vs. Mental health care (MHC)	Among CAM modality users, % of children who received MHC	Among children who received MHC, % of children who used the CAM modality
Stress management class	84.9	7.8
Support group meeting	75.5	9.8
Progressive relaxation	66.1	5.7
Deep breathing exercises	50.9	19.6
Vitamins/minerals (past 12 months)	14.7	49.8
Homeopathy	43.8	5.6
Meditation	43.0	7.7
Herbal supplements	33.4	17.5
Chiropractic/osteopathic manipulation	27.6	13.8
Yoga	27.2	7.4
CAM modality vs. Use of prescription medication regularly for at least 3 months (Rx meds)	Among CAM modality users, % of children who take Rx meds	Among children who take Rx meds, % of children who used the CAM modality
Stress management class	80.5	4.2
Support group meeting	61.5	4.7
Deep breathing exercises	51.2	11.2
Meditation	40.5	4.1
Yoga	34.3	5.3
Chiropractic/osteopathic manipulation	29.3	8.4
Herbal supplements	29.1	8.8
Vitamins/minerals (past 12 months)	28.5	55.7
Massage	27.6	3.2
CAM modality vs. Access problem (unmet or/and delay)	Among CAM modality users, % of children who have access problem	Among children who have access problem, % of children who used the CAM modality
Support group meeting	63.7	4.1
Stress management class	58.6	2.6
Deep breathing exercises	43.8	8.1
Homeopathy	42.4	2.6
Meditation	40.4	3.5
Chiropractic/osteopathic manipulation	33.5	8.1
Herbal supplements	37.0	9.3
Vitamins/minerals (past 12 months)	35.8	59.0
Yoga	36.3	4.8
Massage	26.8	2.6

Note: Shaded cells do not meet standards of precision (relative standard error – RSE- is greater than 30%)

- Conventional health care expenditures higher for children with at least one pain-related condition/problem than expenditures for all children. The total health care expenditure and out-of-pocket expenditures for children with pain-related conditions/problems and used CAM higher than children who experience the condition and did not use CAM.

Table 3.3. Adjusted Total Health Care Expenditures for All Children, Children with Pain-Related Conditions or/and Used Any CAM, Data: 2007 NHIS and 2008 MEPS Linked File

All children (0-17 years)	Children with pain-related condition	Any CAM users (0-17 years)	Children with pain- related condition who used CAM	Children with pain-related condition who DID NOT use CAM
Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)
\$1,452 (1,414-1,489)	\$2,459 (2,333-2,585)	\$2,050 (1,955-2,146)	\$3453 (3,153-3,752)	\$2,152 (2,040-2,263)

* Adjusted for children's age, sex, race/ethnicity, family income, US region child lives

Table 3.4. Adjusted Out-of-Pocket Health Care Expenditures for All Children, Children with Pain-Related Conditions or/and Used Any CAM, Data: 2007 NHIS and 2008 MEPS Linked File

All children (0-17 years)	Children with pain-related condition	Any CAM users (0-17 years)	Children with pain- related condition who used CAM	Children with pain-related condition who DID NOT use CAM
Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)	Mean (95% CIs)
\$312 (296-328)	\$390 (350-430)	\$442 (402-482)	\$571 (488-654)	\$323 (284-361)

* Adjusted for children's age, sex, race/ethnicity, family income, US region child lives