Interprofessional Education in the Clinical Training of CAM students



ACADEMIC CONSORTIUM FOR COMPLEMENTARY & ALTERNATIVE HEALTH CARE

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Academic Consortium for Complementary and Alternative Health Care

- created in 2004 to enhance inter-disciplinary collaboration by fostering mutual respect and understanding across all healthcare disciplines
- core members from the 5 licensed integrative, complementary and alternative disciplines: acupuncture and Oriental medicine, chiropractic, massage therapy, direct-entry midwifery, and naturopathic medicine

Why look at IPE in Clinical Training?

If/how students are being prepared in clinical training to work with healthcare providers from other professions.

Differences between profession? Between types of clinical settings? Between single and multi-discipline institutions?

Methods

- Descriptive observational electronic survey
- Population
 - accredited schools and programs in each of the five licensed CAM disciplines
 - administrators who oversee clinical training at each institution
- Study approved by the University of Bridgeport Institutional Review Board



Results Overall Response rate: 66%

Discipline	Accredited schools & programs	Opted out	Total invited	Response Rate
AOM	58	2	51*	57% (29/51)
DC	19	0	19	89% (17/19)
МТ	67	1	47*	60% (28/47)
DEM	9	0	9	67% (6/9)
ND	8	0	8	100% (8/8)
Total			134	66% (88/134)

*When there were multiple campuses for the same school, with the same person overseeing the clinical training of students, only one survey was sent. This was the case for 5 AOM schools and 19 MT schools.

Results

Single vs Multi-Discipline Institutions

Discipline	Total Single Discipline Schools Invited	Total Multi- Discipline Schools Invited	Response Rates
AOM	44	7	Single 50% (22/44)
		,	Multi 100% (7/7)
	17	7	Single 83% (10/12)
	12	/	Multi 100% (7/7)
мт	13	Λ	Single 56% (24/43)
		7	Multi 100% (4/4)
	Q	1	Single 63% (5/8)
	0	۲.	Multi 100% (1/1)
ND	Λ	Λ	Single 100% (4/4)
	4	4	Multi 100% (4/4)
		22	Single 59%
Total	111	23	(05/111) Multi 100% (23/23)
			(,)

Clinical Training Settings

- Most common
 - Single and multi discipline institutions
 - Clinics owned/operated by the school, located on the school's campus (Single 82%; Multi 55%)
- Second most common
 - Single discipline institutions
 - Clinics owned/operated by the school, located on the school's campus (28%), followed closely by partnerships with one or more hospitals/medical centers (25%)
 - Multi discipline institutions
 - Clinics owned/operated by their school, located off site from the school's campus (42%)

Most common			Second	d most
set	ting		com	mon
			sett	ting
Single	Multi		Single	Multi
82.3%	54.5%	A. Clinic(s) owned/operated by your school, located on your school's campus	28.3%	5.3%
4.8%	18.2%	B. Clinic(s) owned/operated by your school, located off site from your school's campus	11.3%	42.1%
1.6%	4.5%	C. Partnership with one or more hospitals/medical centers	24.5%	21.1%
0.0%	0.0%	D. Partnership with one or more Federally Qualified Health Centers	1.9%	0.0%
1.6%	4.5%	E. Partnership with one or more ambulatory community health facilities. (e.g. homeless center, senior center, church)	15.1%	21.1%
9.7%	4.5%	F. Partnership with one or more private practice settings (This includes preceptorships with individual licensed providers within the given discipline)	7.5%	0.0%
0.0%	13.6%	G. Other type of clinical training setting (please describe below)	11.3%	10.5%

Involvement of other provider types

- Engage in regular communication regarding patient care
- Provide observational opportunities for students
- Participate in shared case management decision making
- Directly oversee students in delivering care
- Other

ACCAHC Frequency of involvement of other disciplines: AOM

ΑΟΜ	Single	Discipline, M N=	ost Common : 18	Setting	Multi-Discipline, Most Common Setting N= 6			
	Not involved	Communica tion, student observation , and other	Shared case manageme nt decision making	Directly oversee students in delivering care	Not involved	Communica tion, student observation , and other	Shared case manageme nt decision making	Directly oversee students in delivering care
CHIRO	100%	0%	0%	0%	0%	33%	33%	33%
NATURO	75%	25%	0%	0%	13%	38%	25%	25%
MT	47%	33%	0%	20%	50%	50%	0%	0%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER CAM	82%	18%	0%	0%	100%	0%	0%	0%
MD/DO	67%	33%	0%	0%	50%	50%	0%	0%
NURSES	100%	0%	0%	0%	50%	50%	0%	0%
ALLIED HEALTH	90%	10%	0%	0%	67%	0%	0%	33%

ΑΟΜ	Single D	iscipline, 2 nd N=	most commo : 16	n setting	Multi-Discipline, 2 nd most common setting N= 6			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
CHIRO	78%	11%	11%	0%	0%	40%	40%	20%
NATURO	54%	23%	15%	8%	14%	43%	29%	14%
МТ	45%	36%	9%	9%	100%	0%	0%	0%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	89%	0%	11%	0%	33%	33%	33%	0%
MD/DO	55%	27%	18%	0%	0%	100%	0%	0%
NURSES	78%	11%	11%	0%	0%	100%	0%	0%
ALLIED								
HEALTH	70%	20%	10%	0%	0%	75%	25%	0%

ACCAHC Other provider involvement at AOM institutions

- Little to no DC interaction in single discipline institutions; much interaction in the multi's
- Some interaction with NDs in single discipline institutions and much more in the multi's
- Varying degrees of interaction with MTs and MD/DOs in the single settings and the multi most common setting. In the multi 2nd most common setting, MTs are not at all involved and MD/DOs are very involved
- No exposure to DEM providers
- Little to no other CAM provider interaction in single discipline institutions and multi most common setting; but much interaction in the multi 2nd most common setting
- Little to no Nurses/Allied health interaction in single discipline institutions; much interaction in the multi's

ACCAHC Frequency of involvement of other disciplines: DC

DC	Single	Discipline, M N=	lost Common = 10	Setting	Multi-Discipline, Most Common Setting N= 7			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	43%	29%	14%	14%	11%	56%	22%	11%
NATURO	63%	25%	13%	0%	43%	29%	29%	0%
МТ	100%	0%	0%	0%	17%	33%	33%	17%
MIDWIFE	70%	20%	10%	0%	100%	0%	0%	0%
OTHER								
САМ	67%	22%	11%	0%	60%	20%	0%	20%
MD/DO	60%	30%	10%	0%	20%	50%	30%	0%
NURSES	67%	22%	11%	0%	25%	25%	50%	0%
ALLIED HEALTH	36%	45%	18%	0%	50%	25%	25%	0%

DC	Single I	Discipline, 2 nd N:	ⁱ most comm = 10	on setting	Multi-Discipline, 2 nd most common setting N= 7			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	56%	22%	11%	11%	25%	38%	13%	25%
NATURO	100%	0%	0%	0%	50%	50%	0%	0%
MT	75%	25%	0%	0%	40%	40%	0%	20%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
CAM	100%	0%	0%	0%	75%	0%	0%	25%
MD/DO	44%	33%	11%	11%	0%	70%	20%	10%
NURSES	44%	33%	11%	11%	33%	33%	33%	0%
ALLIED								
HEALTH	13%	63%	25%	0%	67%	33%	0%	0%

ACCAHC Other provider involvement at DC institutions

- Some AOM and ND interaction in the single discipline institutions; more in multi's
- Virtually no MT exposure in the single discipline institutions; but some in multi's
- No DEM exposure; and very little other CAM exposure
- Very little MD/DO interaction in the single discipline institutions; significant interaction in multi's
- Some interaction with nurses

ACCAHC Frequency of involvement of other disciplines: ND

ND	Single	Discipline, M N	lost Common = 4	Setting	Multi-Discipline, Most Common Setting N= 4			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	50%	25%	0%	25%	25%	0%	25%	50%
CHIRO	50%	0%	0%	50%	0%	33%	0%	67%
МТ	100%	0%	0%	0%	100%	0%	0%	0%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	75%	0%	0%	25%	33%	0%	0%	67%
MD/DO	50%	50%	0%	0%	0%	50%	0%	50%
NURSES	100%	0%	0%	0%	100%	0%	0%	0%
ALLIED HEALTH	50%	25%	0%	25%	33%	0%	0%	67%

ND	Single D	iscipline, 2 nd N:	most commo = 4	n setting	Multi-Discipline, 2 nd most common setting N= 4			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	75%	0%	0%	25%	0%	0%	0%	100%
CHIRO	75%	0%	0%	25%	33%	0%	33%	33%
МТ	100%	0%	0%	0%	100%	0%	0%	0%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	75%	25%	0%	0%	100%	0%	0%	0%
MD/DO	75%	25%	0%	0%	0%	67%	0%	33%
NURSES	75%	25%	0%	0%	67%	33%	0%	0%
ALLIED	750/	250/	0.04	0.04	1000/	0.07	0.04	0.04
HEALTH	/5%	25%	0%	0%	100%	0%	0%	0%

ACCAHC Other provider involvement at ND institutions

- Some interaction with AOM, DC, and MD/DO providers in the single discipline institutions, and more in multi's
- No exposure to MT, DEM and very little to nurses
- Some interaction with other CAM and Allied providers

ACCAHC Frequency of involvement of other disciplines: MT

MASSAGE THERAPY	Single	Discipline, M N=	lost Common = 20	Setting	Multi-Discipline, Most Common Setting N= 4			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	80%	7%	7%	7%	50%	33%	0%	17%
CHIRO	79%	7%	14%	0%	9%	45%	27%	18%
NATURO	92%	0%	8%	0%	25%	25%	25%	25%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	79%	14%	7%	0%	50%	25%	0%	25%
MD/DO	87%	7%	7%	0%	100%	0%	0%	0%
NURSES	87%	0%	13%	0%	100%	0%	0%	0%
ALLIED								
HEALTH	79%	7%	14%	0%	25%	50%	25%	0%

MASSAGE THERAPY	Single D	iscipline, 2 nd N=	most commo = 15	on setting	Multi-Discipline, 2 nd most common setting N= 4			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	80%	20%	0%	0%	100%	0%	0%	0%
CHIRO	80%	20%	0%	0%	20%	60%	0%	20%
NATURO	89%	11%	0%	0%	50%	50%	0%	0%
MIDWIFE	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	89%	11%	0%	0%	100%	0%	0%	0%
MD/DO	64%	36%	0%	0%	33%	67%	0%	0%
NURSES	55%	36%	0%	9%	50%	50%	0%	0%
ALLIED HEALTH	56%	33%	0%	11%	50%	50%	0%	0%

ACCAHC Other provider involvement at MT institutions

- Some AOM involvement in single discipline institutions; variable involvement in multi's
- Some DC and ND interaction in the single discipline institutions; and more interaction in the multi's
- No interaction with DEMs
- Some interaction with other CAM, MD/DO, Nurse and Allied providers in most settings (in all single discipline settings, but not all multi's)

ACCAHC Frequency of involvement of other disciplines: DEM

MIDWIFE	Single	Discipline, M N=	ost Common = 4	Setting	Multi-Discipline, Most Common Setting N= 1			
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly
	involved	tion,	case	oversee	involved	tion,	case	oversee
		student	manageme	students in		student	manageme	students in
		observation	nt decision	delivering		observation	nt decision	delivering
		, and other	making	care		, and other	making	care
ACUPUNC	100%	0%	0%	0%	100%	0%	0%	0%
CHIRO	100%	0%	0%	0%	100%	0%	0%	0%
NATURO	17%	33%	17%	33%	0%	0%	0%	100%
МТ	100%	0%	0%	0%	100%	0%	0%	0%
OTHER								
САМ	100%	0%	0%	0%	100%	0%	0%	0%
MD/DO	100%	0%	0%	0%	0%	100%	0%	0%
NURSES	0%	50%	0%	50%	0%	0%	100%	0%
	100%	0%	0%	0%	100%	0%	0%	0%
NEALIN	100%	0 %0	070	070	100%	0%	0 70	0%

MIDWIFE	Single D	Discipline, 2 nd N	most commo = 4	on setting	Multi-Discipline, 2 nd most common setting N= 0				
	Not	Communica	Shared	Directly	Not	Communica	Shared	Directly	
	involved	tion,	case	oversee	involved	tion,	case	oversee	
		observation	nt decision	deliverina		observation	nt decision	deliverina	
		, and other	making	care		, and other	making	care	
ACUPUNC	100%	0%	0%	0%	NA	NA	NA	NA	
CHIRO	100%	0%	0%	0%	NA	NA	NA	NA	
NATURO	100%	0%	0%	0%	NA	NA	NA	NA	
МТ	100%	0%	0%	0%	NA	NA	NA	NA	
OTHER									
CAM	100%	0%	0%	0%	NA	NA	NA	NA	
MD/DO	67%	33%	0%	0%	NA	NA	NA	NA	
NURSES	67%	33%	0%	0%	NA	NA	NA	NA	
ALLIED HEALTH	100%	0%	0%	0%	NA	NA	NA	NA	

ACCAHC Other provider involvement at DEM institutions

- Substantial interaction with NDs in the most common clinical training setting
- No exposure to AOM, DC, MT, other CAM or Allied providers
- No MD/DO exposure in the single discipline institution most common setting; but some interaction in the single discipline 2nd most common setting
- Substantial MD/DO interaction the most common clinical training setting for multi's only
- A great deal of interaction with Nurses

Frequency of involvement of other disciplines: Legend Key

1/2	Most Common Setting Level / 2nd Most Common Level of involvement
	S -substantial interaction (75-100%
	M -moderate interaction (25-74% involvement)
	L - little or no interaction (0-24% involvement)

ACCAHC Frequency of involvement of other disciplines: L - little or no interaction M -moderate interaction S -substantial interaction

1/2 Variable levels of interaction

	AOM		DC		ND		МТ		DEM	
	S	Μ	S	Μ	S	М	S	М	S	Μ
АОМ								M/L		
CHIRO						S/M				
NATURO			M/L					S/M	S/L	
МТ		M/L	L/M	S/M						
MIDWIFE			M/L							
OTHER CAM		L/M	M/L			M/L		M/L		
MD/DO		M/S					L/M	L/M	L/M	
NURSES		M/S		S/M	L/M	L/M	L/M	L/M	S/M	
ALLIED	L/M	M/S	M/S			M/L	L/M	S/M		

Discussion

- Interprofessional education
 - Underpinning for interprofessional collaboration
 - May lead to improved clinical outcomes
 - May influence CAM providers' roles in healthcare systems
- Clinical training
 - Formative time for future clinical practice
 - Provides opportunities for mentorship and other one-onone involvement between trainees and clinicians
- Assessing interprofessional education during clinical training
 - Provides insight into the current status at CAM institutions

Discussion

- We found wide variation in the roles of other disciplines among responding institutions
 - With respect to conventional medical providers (MD/DO, Nurses, Allied)
 - DC, ND and DEM generally reported the most exposure
 - AOM less so, and MT the least
 - With respect to other CAM providers
 - AOM and DC reported the most exposure, with MT and ND close behind
 - DEM reported the least exposure
- We also found variation between single and multi discipline institutions
 - Across all disciplines, multi schools generally reported more involvement of other providers than single schools

Limitations

- Results are subject to respondent recall and reporting error
- Characterization of most common and second most common clinical training sites does not capture the number of students trained at any site
- We did not attempt measure the duration or quality of any reported interprofessional interactions, nor of the effect of these interactions on future practice patterns

Conclusion

- This work describes variation in the reported extent of interprofessional education occurring in the clinical training of the 5 ACCAHC member disciplines
- Further work assessing the quality of such training, and its effect on subsequent practice, may help inform future educational strategies for the CAM disciplines