2020 Disabilities IPE Student Evaluation

This evaluation covers the student pre-activity survey and post-activity survey. The post-activity survey includes the 27-item Interprofessional Attitude Survey (IPAS). This evaluation was not anonymous because in order to receive class credit, students were required to complete the evaluation and put their email at the end of the post survey.

Survey Questions

1. Disabilities Pre-Survey:

Students were not required to answer each question.

Question Blocks:

- i. IPE Training: Questions = 2
- ii. Knowledge: Questions = 5
- iii. Demographics: Age, Gender, Ethnicity, Race, Rural Residence, Background, AZ Residence, Military Service. Questions= 8
- iv. Education: Level, Enrollment Status, Year, Academic Institution, college/Dept, Degree: Questions = 6
- v. Open-ended = 0

2. Disabilities Post-Survey:

Students were not required to answer each question.

Question Blocks:

- i. Event Evaluation (retrospective pre-post): Questions = 5
- ii. New Information: Questions = 8
- iii. Event Activity: Questions = 8
- iv. Perceptions about profession and roles: Questions = 9
- v. IPE Profession/Experience: Questions = 7
- vi. IPAS: Ouestions = 27
- vii. Education: Institution, College/Department, Degree: Questions = 3
- viii. Email: Questions = 2
- ix. Open-ended Comments: Questions = 3
 - o Briefly explain what you LIKED most about this event

Pre-Survey Data

Interprofessional (IPE) Training

How much training have you received in interprofessionalism? N = 555

Students received different amounts of training in interprofessionalism.

None = 60 students (11%)

A Little = 180 students (32%)

Some = 282 students (51%)

A Lot = 33 students (6%)

Have you participated in any other interprofessional (IPE) activities? Select all that apply.

Interprofessional Activity	Frequency
UAHS Interprofessionalism for Patient Safety	313
UAHS Interprofessional Team Behavior Simulation	177
UAHS Pandemic Flu: An Interprofessional Exercise	144
UAHS CLARION Case Competition	9
Annual Interprofessional Rural Health Professions Conference	14
Other IPE activity at the University of Arizona	61
IPE activity at another institution	20

Students were asked to describe "Other." Several responses were activities listed in the evaluation, but students did not associate it with the UAHS activities that were presented in the question. For example, students referred to the above activities as Safety and Flu Epidemic CPR and QPR Program instead of Pandemic Flu and Team Behavior Simulation. Other activities included: Social Justice Symposium, AHEC Scholars program, AZ summit, Opioid Epidemic, Clinical Skills Competition hosted by College of Pharmacy, Interprofessional Poverty, MNT Workshop Class at St. Luke's Home, NAU OTD, IPE at Medication Management Center, IPE community health assessment, IPEP Clinics with COM and COP, MILAGRO course, multidisciplinary team, Team Arizona Summit, Tele Health, Public Health courses.

Knowledge Questions

The biggest difference in the number of responses (443) occurred with question #5, where the majority of students felt the statement was True. Students were the least confident with Question #3 where the difference between True and False was 66. Overall, all five areas can be further clarified in the activity.

Item	True	False
1) The majority of Arizonans with developmental disabilities live in group	152	401
homes, nursing homes or other group settings		
2) The most common claim against health care providers under the	351	206
Americans with Disabilities Act is the failure to provide sign language		
interpreters for deaf patients		

3)	86% of spinal cord injured high-level quadriplegics rated their quality of	245	311
	life as average or better than average		
4)	After high school, young adults with intellectual disabilities can only	137	425
	expect to work in basic unskilled jobs or attend a day treatment program		
5)	People with disabilities have greater needs for health care than those	499	56
	without disabilities and are more likely to experience one or more		
	secondary medical conditions		

Demographics (students often chose to skip some questions)

Age N = 549

Age range 19 - 29 = 454 students

Age range 30 - 39 = 74 students

Age range 40 - 49 = 18 students

Age range 50 - 59 = 2 students

Age range 60 - 69 = 1 student

Gender N = 553

Female = 374

Male = 171

Non-binary = 2

Transgender Male/Female-to-Male = 1

Additional = 1

Prefer not to say = 3

Genderqueer = 1

Ethnicity N = 544

Hispanic or Latino = 115

Non-Hispanic or Non-Latino = 429

Race (select one or more)

	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or other Pacific Islander	White
Frequency	16	100	33	10	417

Have you ever lived in a rural area (fewer than 50,000 people) N = 549

Yes = 162 (30%)

No = 387 (71%)

Can you answer yes to any of the following: a) You are the first in your family to attend college; b) You have received or currently receive a scholarship or loan for disadvantaged students; c) While growing up, you or your family ever used federal or state assistance programs (such as free or reduced school lunch, subsidized housing, food stamps Medicaid, etc.); d) While growing up, you lived where there were few medical providers at a convenient distance. N = 548

Yes, one or more of the above statements applies = 226 (41%)No, none of the above statements applies = 322 (59%)

Did you grow up in Arizona? N = 549

Yes = 349 (64%)No = 200 (36%)

Military Service N = 542

Military Service	Frequency
No military service	528 (98%)
Current active reserve or guard	2
Prior active duty – combat	4
Prior active duty – non-combat	3
Prior service- veteran status	2
Retired – combat	1
Retired – reserve or guard	1
Retired – veteran status	1

Education and Academic Programs

Highest Educational Level Completed N = 549

Level	Frequency	Percent
		(rounded)
Residency	1	
Post-doctorate	0	
Doctoral degree	4	1
Master degree	39	7
Bachelor degree	364	66
Associate degree	33	6
Technical certificate	1	
Post-high school/pre-college	12	2
High school diploma	86	16
Other	3	1

Enrollment Status N = 550

Full-time = 545 (99%)

Part-time = 5 (1%)

What year are you in your program of study? N = 548

Year	Frequency	Percent (rounded)
One	274	50
Two	178	33

Three	48	9
Four	39	7
Five	9	2

Academic Program – Institution Total N = 550

Arizona State University = 10 (2%) Northern Arizona University = 44 (8%) University of Arizona = 496 (90%)

College N = 550

	Frequency	Percent
		(rounded)
College of Medicine – Phoenix	1	
College of Medicine – Tucson	115	21
College of Nursing	175	32
College of Pharmacy	128	23
Zuckerman College of Public Health	38	7
Occupational Therapy Program	44	8
School of Social Work	1	
Other	48	9

Student Degree Program N = 550

Degree Program	Frequency	Percent
		(rounded)
Graduate degree	3	1
Undergraduate degree	45	8
MSW	1	
PharmD	128	23
OTD	44	8
MD	110	20
MD/MPH	1	
MD/PhD	5	1
BSN	53	10
MEPN (Phoenix)	58	11
MEPN (Tucson)	64	12
BS	1	
MPH	34	6
MPH/MA	1	
MPH/MBA	1	
MPH/MS	1	

Post-Survey Data Including IPAS

There were 59 students who declined to participate in Research.

Academic Program – Institution Total N = 510

Arizona State University = 4 (.8%) Northern Arizona University = 39 (8%) University of Arizona = 468 (92%)

College/Department N = 511

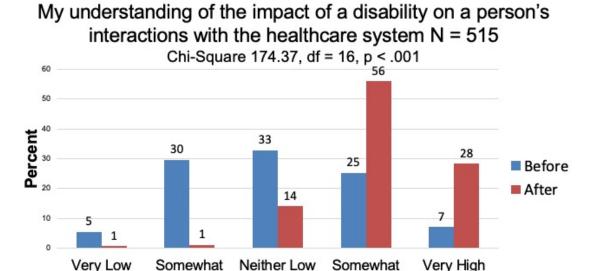
	Frequency	Percent (rounded)
College of Medicine – Phoenix	1	
College of Medicine – Tucson	100	20
College of Nursing	167	33
College of Pharmacy	123	24
Zuckerman College of Public Health	37	7
Occupational Therapy Program	39	8
School of Social Work	0	
School of Nutrition and Health	1	.2
Promotion		
Other	43	8

Student Degree Program. N = 511

Degree Program	Frequency	Percent
N = 550		(rounded)
Graduate degree	4	1
Undergraduate degree	40	8
MSW		
PharmD	123	24
OTD	39	8
MD	97	19
MD/MPH	1	
MD/PhD	3	1
BSN	51	10
MEPN (Phoenix)	52	10
MEPN (Tucson)	64	13
BS	1	
MPH	35	7
MPH/MA	1	
MPH/MBA		
MPH/MS		

In this report, the retrospective Before-After questions are represented in graphs. Crosstabs with chi-square were calculated to identify if there was a significant change in students' perception of their learning. Significance does not identify causality. Means and a Paired T-test were not calculated because the scale is an ordinal measurement that indicates direction but does not have intervals that can be assumed to be equal.

The following three items were significant at p < .001. Overall, student improvement in their understanding of the four items were similar.

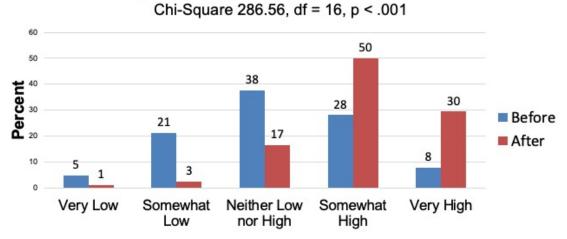


My understanding of the roles and functions of the members of an interprofessional team in the delivery of patient-centered care for persons with disabilities N = 515

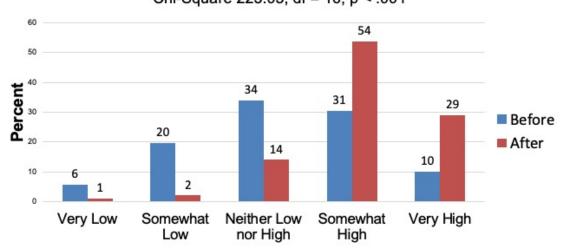
nor High

High

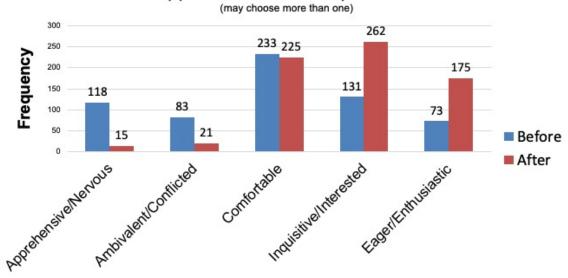
Low



My understanding of how disability is socially constructed N = 515 Chi-Square 223.05, df = 16, p < .001



What words best describe your ATITUDE toward providing healthcare or supportive services to persons with disabilities



For the above graph, student attitudes shifted to being more Inquisitive/Interested and Eager/Enthusiastic after the activity.

How much NEW information did you learn about the following? N = 514Percentage (rounded) is following by (Frequency)

Students reported learning the most about 1) the importance of knowing the person instead of a disability, 2) things to do to facilitate communication with persons with disabilities, and 3) the role of self-advocacy. This was followed by disability as a social construct. The remaining items were similar regarding the knowledge gained.

	None	A Little	Moderate	A Lot	A Great		
			Amount		Deal		
Disability as a medical constr	Disability as a medical construct						
	5% (27)	20% (104)	35% (179)	31% (160)	9% (44)		
Disability as a social construc	t						
	6% (30)	15% (76)	32% (164)	36% (187)	11% (57)		
The importance of knowing the	ne person inst	ead of a disab	oility				
	7% (37)	14% (71)	22% (112)	33% (167)	25% (127)		
Things I can do to facilitate co	ommunication	n with persons	s with disabili	ties			
	5% (25)	13% (66)	25% (130)	37% (192)	20% (101)		
Ways to make the healthcare	environment a	accessible for	persons with	disabilities			
	5% (26)	15% (75)	30% (156)	33% (170)	17% (87)		
People First Language							
	13% (65)	20% (103)	24% (125)	26% (135)	17% (86)		
The role of self-advocacy for persons with disabilities							
	5% (25)	13% (66)	26% (134)	34% (177)	22% (112)		
Community resources to support people with disabilities							
	9% (47)	23% (116)	27% (140)	26% (133)	15% (78)		

To what extent do you disagree or agree with the following? N = 513 - 514

Overall, the level of agreement was similar for all items in the following table. Item 2 had the highest percentage of agreement. Items 3 and 4 had similar wording and a very similar response distribution.

	Strongly	Disagree	Neither	Agree	Strongly	
	Disagree				Agree	
The exercise was effective in	demonstration	ng the differen	nt perspective	s of various p	rofessions	
	5% (27)	10% (49)	18% (91)	50% (257)	18% (90)	
I was at the most appropriate	I was at the most appropriate level in my education to participate fully in the discussions					
	2% (11)	5% (27)	16% (84)	52% (269)	24% (123)	
This session should be required for all students in my profession						
	5% (25)	7% (38)	18% (92)	38% (193)	32% (165)	
This event should be required for all health professions students (asked later in the survey)						
	5% (23)	6% (28)	22% (111)	38% (197)	30% (154)	

Please identify the case you discussed. This question needs clarification. Vicky Cruz = 503

Within the last year, how many individuals with disabilities have you spent time with in your social, school, or work setting? (Time spent is defined as 15 minutes or longer for each interaction) N = 514

	Frequency	Percent	
		(rounded)	
None	66	13	
1 to 3	221	43	
4 to 6	95	19	
7 to 9	29	6	
10 or more	103	20	

How relevant was Disabilities: An Interprofessional Exercise to your current professional education?

Seventy seven percent of the students found the exercise Moderately or Very Relevant.

Not relevant	4% (21)
Somewhat relevant	19% (97)
Moderately relevant	29% (147)
Very relevant	48% (249)

To what degree did Disabilities: An Interprofessional Exercise make you reflect on your own behaviors when interacting with persons with disabilities?

Fifty four percent of the students reported that they reflected on their own behaviors A Lot or A Great Deal.

Not at all	5% (23)
A little	14% (69)
Moderate amount	29% (146)
A lot	32% (164)
A great deal	22% (111)

Overall, how would you rate Disabilities: An Interprofessional Exercise?

Forty nine percent of the students rated the exercise Very Good or Excellent.

Poor	9% (45)
Fair	12% (62)
Good	30% (155)

Very Good 29% (150) Excellent 20% (101)

In what CITY did you participate in the group activities:

Tucson = 376 students (73%) Phoenix = 136 students (27%)

Please provide your perception regarding the following statements (N = 513)

There was strongest agreement with items

- Understanding overlapping roles versus unique roles played by different professionals will make me a better caregiver
- Faculty in my college support interprofessional education
- The leadership role on a healthcare team should sometimes shift depending on the setting
- Faculty in my college model good interprofessional teamwork behaviors
- Students in my college support interprofessional education

There was least agreement with the first and last item.

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree
The current h	nealth care env	rironment faci	litates effectiv	e teamwork	
	1% (7)	13% (66)	34% (172)	45% (229)	8% (39)
Faculty in my	y college mod	el good interp	rofessional tea	amwork behav	iors
	1% (3)	2% (9)	15% (79)	52% (264)	31% (158)
My profession	on is often mis	understood			
	1% (7)	10% (50)	27% (139)	36% (183)	26% (134)
Faculty in my	y college supp	ort interprofes	ssional educat	ion	
	0	1% (5)	12% (63)	47% (239)	40% (206)
Students in n	ny college sup	port interprofe	essional educa	tion	
	1% (4)	4% (22)	21% (109)	47% (241)	27% (137)
Understanding overlapping roles versus unique roles played by different					
professionals will make me a better caregiver					
	.4% (2)	1% (5)	10% (49)	48% (247)	41% (210)
The leadership role on a healthcare team should sometimes shift depending on					
the setting					
	1% (3)	2% (9)	13% (64)	44% (223)	42% (214)
My profession is not well integrated in the healthcare environment					
	17% (89)	28% (141)	26% (132)	21% (108)	8% (43)

Please rate the degree to which interprofessional education, including activities like this one, can accomplish the following (N = 513):

Overall, student responses for the following seven items were similar. More than 50% of students felt IPE can accomplish the following A Great Deal: a) improve health care outcomes, b) increase patient trust in health care team, c) maximize the skills and contribution of each team member, d) improve patient safety and e) change negative stereotypes. The ability to decrease disruptive behaviors and increase job satisfaction among health care providers were rated slightly lower.

	Not at all	Very Little	Somewhat	A Great Deal		
Improve	health care ou	itcomes				
	2% (12)	6% (29)	38% (194)	54% (278)		
Increase	patient trust in	n health care to	eams			
	3% (14)	6% (31)	34% (173)	58% (295)		
Maximiz	e the skills an	d contribution	s of each team	member		
	2% (11)	6% (32)	36% (184)	56% (286)		
Decrease	disruptive be	haviors				
	4% (22)	8% (43)	45% (231)	42% (217)		
Improve	Improve patient safety					
	3% (13)	5% (24)	38% (194)	55% (282)		
Increase job satisfaction among health care providers						
	4% (20)	10% (51)	40% (204)	46% (238)		
Change negative stereotypes about other professions						
	3% (16)	7% (36)	36% (183)	54% (278)		

IPAS – Retrospective Pre-Post Questions (ASTEC and Other Rooms)

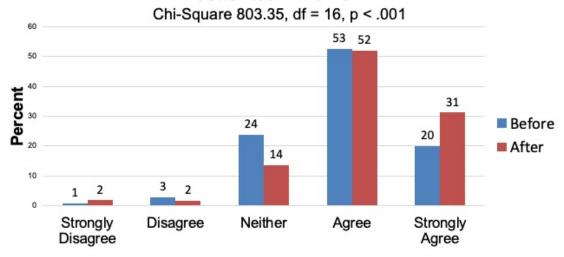
The Interprofessional Attitude Scale (IPAS) includes 27 items using a 5-point Likert scale: 1) Strongly disagree, 2) Disagree, 3) Neither agree nor disagree, 4) Agree, 5) Strongly agree.

Retrospective Before and After percentages for the five scale options are reported in the graphs below. All items were significant at the p < .001. On all 27 items, student agreement in the positive direction increased.

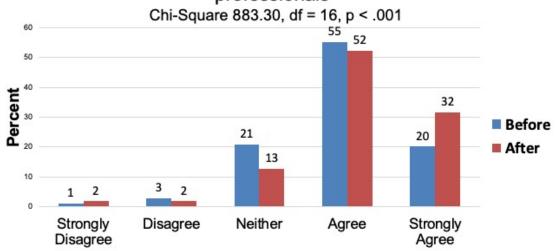
Interprofessional Attitude Scale (IPAS) 27 Questions

Range of responses 511 - 513 for each question

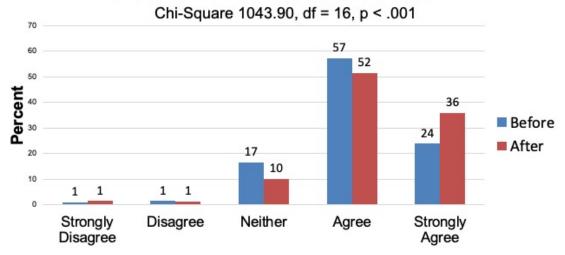
Q1: Shared learning before graduation will help me become a better team worker*



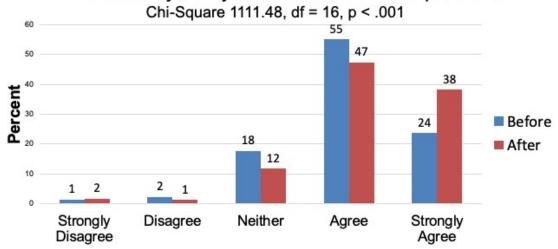
Q2: Shared learning will help me think positively about other professionals*



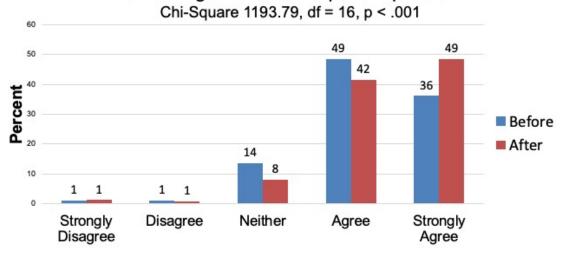
Q3: Learning with other students will help me become a more effective member of a health care team*



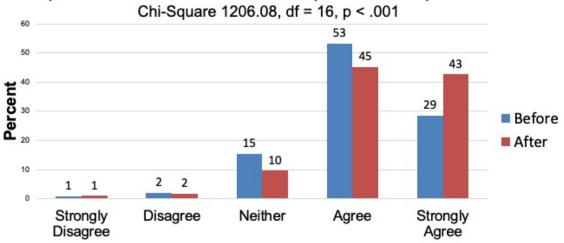
Q4: Shared learning experiences with other health care students will increase my ability to understand clinical problems*



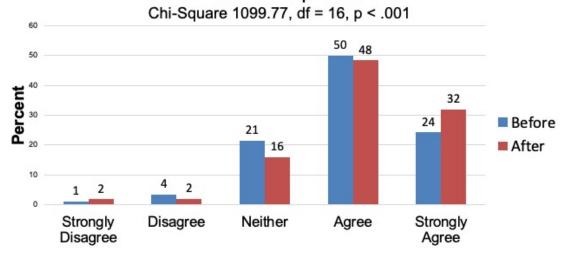
Q5: Patients would ultimately benefit if health science students worked together to solve patient problem*



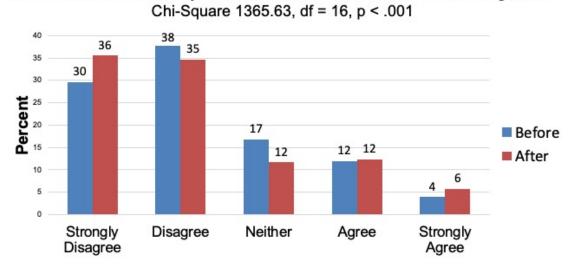
Q6: Shared learning experiences with other health care trainees will help me communicate better with patients and professionals*



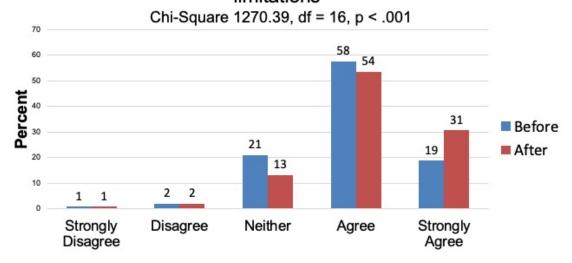
Q7: I welcome the opportunity to work on small-group projects with other health care professions*



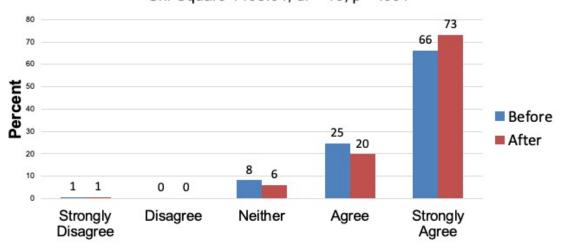
Q8: It is not necessary for health care trainees to learn together*



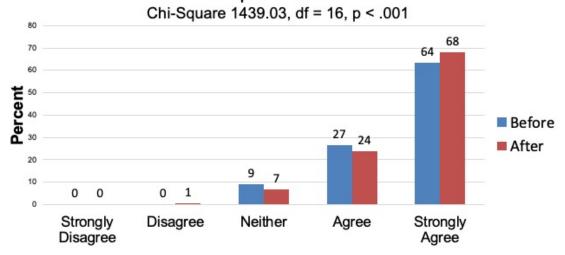
Q9: Shared learning experiences will help me understand my own limitations*



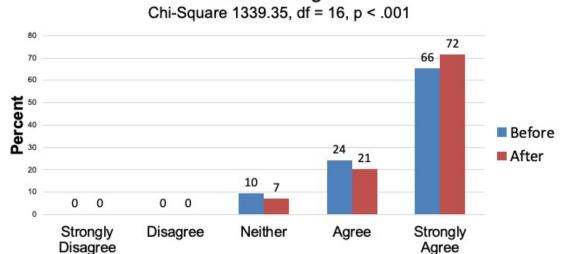
Q10: Establishing trust with my patients is important to me* Chi-Square 1465.64, df = 16, p < .001



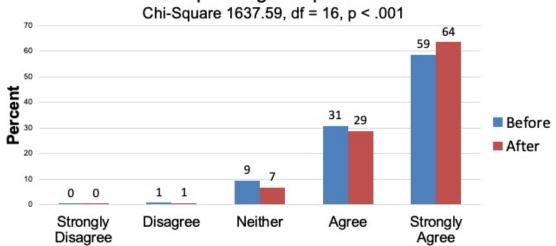
Q11: It is important for me to communicate compassion to my patients*



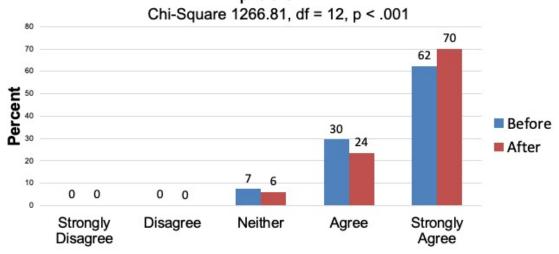
Q12: Thinking about the patient as a person is important in getting treatment right*



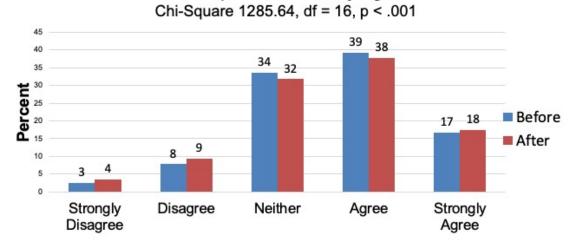
Q13: In my profession one needs skills in interacting and co-operating with patients*



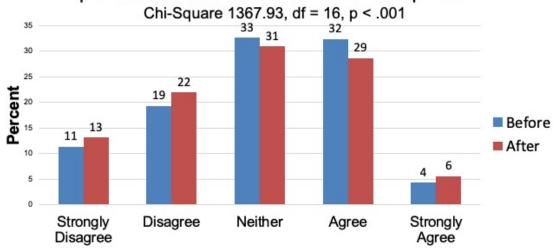
Q14: It is important for me to understand the patient's side of the problem*



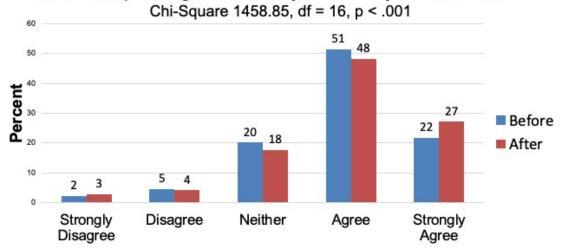
Q15: Health professionals/students from other disciplines have prejudices or make assumptions about me because of the discipline I am studying*



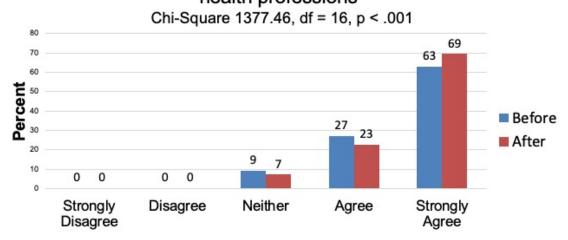
Q16: I have prejudices or make assumptions about health professionals/students from other disciplines*



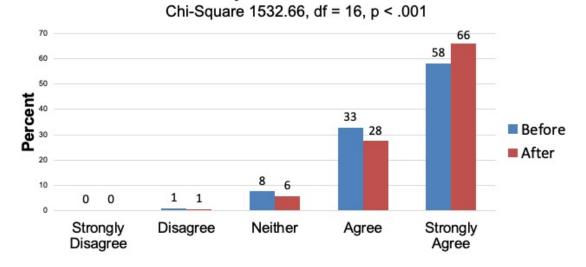
Q17: Prejudices and assumptions about health professionals from other disciplines get in the way of delivery of health care*



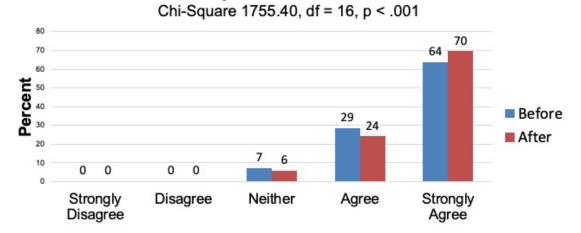
Q18: It is important for health professionals to respect the unique cultures, values, roles/responsibilities, and expertise of other health professions*



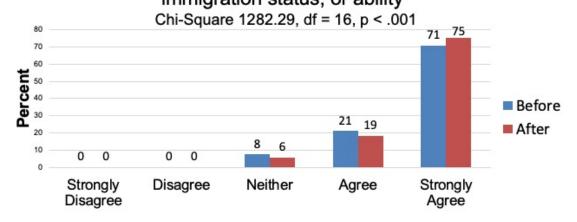
Q19: It is important for health professionals to understand what it takes to effectively communicate across cultures*



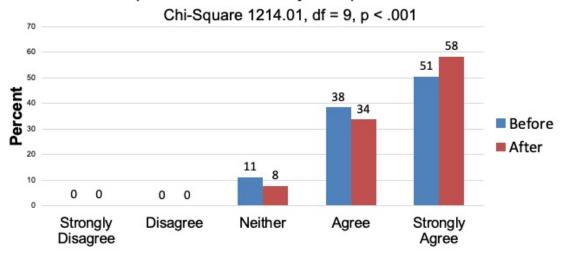
Q20: It is important for health professionals to respect the dignity and privacy of patients while maintaining confidentiality in the delivery of team-based care*



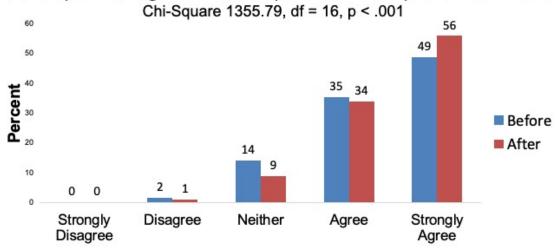
Q21: It is important for health professionals to provide excellent treatment to patients regardless of their background, e.g., race, ethnicity, gender, sexual orientation, religion, class, national origin, immigration status, or ability*



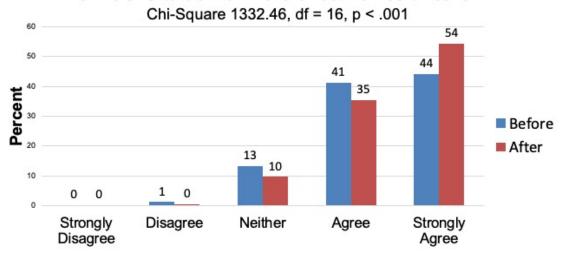
Q22: It is important for health professionals to work on projects to promote community and public health*



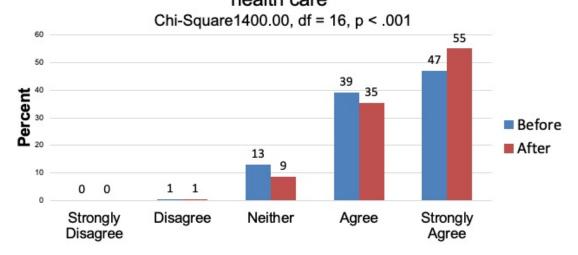
Q23: It is important for health professionals to work with legislators to develop laws, regulations, and policies that improve health care*



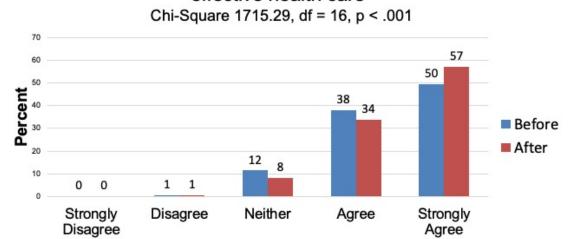
Q24: It is important for health professionals to work with nonclinicians to deliver more effective health care*



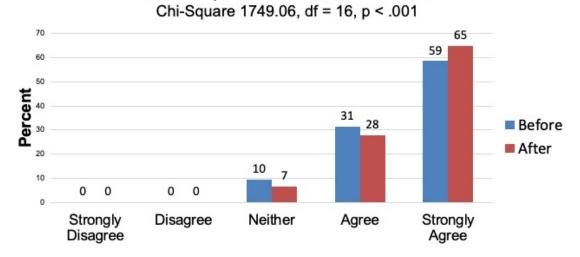
Q25: It is important for health professionals to work with public health administrators and policy makers to improve delivery of health care*



Q26: It is important for health professionals to focus on populations and communities in addition to individual patients, to deliver effective health care*



Q27: It is important for health professionals to be advocates for the health of patients and communities*



Footnote: Degrees of freedom (df) was either 9, 12, or 16 in the graphs. The df was less than 16 if one or more options were not selected. Since percentages were rounded, the graph may show 0%, even if there was one student who chose a particular response.