Background, Expectations and Beliefs of a Chiropractic Student Population A Cross-Sectional Survey

Jordan A. Gliedt, DC, **Shaun Briggs**, DC, **Joshua S.M. Williams**, DC, **Derek P. Smith**, DC, **Joseph Blampied**, DC, private practice

Purpose: Research encompassing the characteristics of chiropractic students is limited. The purpose of our study was to evaluate a current chiropractic student population enrolled at a chiropractic college concerning demographics, expectations, and beliefs. Methods: A 44-item survey was administered to volunteer participants. Direct verbal interaction in a classroom setting to potential participants was the recruitment strategy used. Data were collected and stored on a safe network. Percentages for all responses were calculated and means were recorded where appropriate. Results: A total of 664 students participated of 877 potential eligible candidates (75%). The respondents tended to be 21-25 years of age, Caucasian, and male. Most respondents expected to work in a private practice immediately following graduation and anticipated an annual income of at least \$100,000 eventually. Respondents preferred the retaining of the term, "subluxation," and identified the importance of new and emerging scientific data. Additionally, respondents held the viewpoint that some non-musculoskeletal diseases can be treated effectively with spinal manipulation as a primary treatment. Conclusions: The majority of chiropractic students in our study were represented by specific demographic characteristics, and a strong favoritism toward the expectations of working in a private practice setting and earning at least \$100,000 per year at some point in their career. Distinct beliefs are shared between chiropractic students and practicing chiropractors in North America, and certain aspects of students in our study are comparable to chiropractic students in similar studies.

Key Indexing Terms: Attitude; Chiropractic; Cross Sectional Survey; Education; Students

INTRODUCTION

Chiropractic is described as a health care profession that focuses on the relationship between the body's primary structures, particularly the spine, nerves, and muscles, and patient's health. Chiropractors approach the body with the goal of alleviating pain, improving function, and supporting the body's natural potential to heal itself. Chiropractic is the largest single complementary and alternative medicine (CAM) profession in the United States. Currently, there are more than 88,000 active chiropractic licenses and more than 49,000 practicing chiropractors in the United States. By the year 2018, it is estimated the number of practicing chiropractors will increase to more than 58,000.4

The public identifies chiropractors mostly as practition-ers who treat musculoskeletal disorders, particularly

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low back pain. Thus, the majority of visits to chiropractors are comprised of patients seeking treatment for spinerelated disorders.^{5–9} Chiropractors typically use spinal manipulative therapy (SMT) as a form of primary intervention, often coupled with other forms of conservative treatment, such as manual myofascial therapy, exercise prescription, healthy lifestyle coaching, and nutritional/ diet counseling. Despite public perception, the chiropractic profession historically has encountered difficulty in agreeing on what disorders appropriately merit the use of SMT and other typical chiropractic interventions. Furthermore, the profession has experienced bouts of angst concerning the suitable role and identity of chiropractic in the health care system. 10 It has been posed that chiropractic is at a crossroads in the profession and educational system. 11-14 The present-day chiropractic student represents the next generation of leaders to mold the profession in this time of flux. We surmise that ideologies and expectations of current chiropractic students may have a role in the development of the chiropractic profession, including those represented by current students at Logan College of Chiropractic.

Research encompassing chiropractic students' characteristics currently is limited and is an applicable subgroup worthy of assessment. The purpose of our study was to evaluate a current chiropractic student population enrolled at Logan College of Chiropractic in three main categories: (1) demographics and pre-chiropractic college experience, (2) practice/postgraduate expectations, and (3) chiropractic philosophic beliefs.

METHODS

An anonymous cross-sectional survey was administered to students enrolled in the Logan College of Chiropractic Doctor of Chiropractic degree program. Participation was voluntary for each student and sampling was based on the convenience of student availability. Approval from the Logan College of Chiropractic Institutional Review Board was obtained.

Inclusion Criteria

Participants in our study must have been enrolled currently in the Logan College of Chiropractic Doctor of Chiropractic degree program to participate. Each participant must not have been enrolled for more than the maximum allowed 15 successive trimesters in the Doctor of Chiropractic degree program. This criterion allowed for sampling of our desired population students.

Exclusion Criteria

Any Logan University students enrolled in a bachelor of science degree and/or master of science degree without concurrently being enrolled in the Logan College of Chiropractic Doctor of Chiropractic degree program were considered ineligible for this study. All formerly enrolled and prospective students of the Logan College of Chiropractic Doctor of Chiropractic degree program additionally were excluded from this investigation.

Recruitment

We used direct verbal interaction in a classroom setting to potential participants as the recruitment strategy to reach our desired population. Each investigator presented to randomly selected classes and verbally volunteered an opportunity for students to partake in an anonymous survey for the benefit of research in the chiropractic profession. We chose this method of recruiting due to the ability to invite a large percentage of students to participate, and to administer the study in a comprehensive and timely manner. The chiropractic degree program typically requires a minimum of 10 trimesters and a maximum of 15 consecutive trimesters of enrollment to complete. Typical program status and curriculum mirrors coursework delivered in a designated 10 trimester fashion, therefore labeling students as a "tri-

mester 1" student, "trimester 2" student and so on up to a "trimester 10" student classification. A professor delivering instruction for a course representing each trimester class was contacted for permission to deliver our survey. With permission from each instructor, a range of 20–30 minutes was used at the beginning of the course at each represented trimester class for participant recruiting, explaining the title and purpose of the study, obtaining verbal consent to participate, describing procedures for the anonymous and voluntary nature of the survey, describing potential risks and benefits of participation, and subsequently administering the survey. Participants were instructed verbally to respond to each question of the survey and mark the one most appropriate corresponding response on the Scantron testing document that was distributed to each participant. Participants were instructed verbally to remain silent during the administration of the survey and not discuss any details of the survey until the survey was complete. Furthermore, the participants were directed verbally to refrain from marking or writing on the survey instruments. Upon each participant's completion, the survey instruments and Scantron testing documents were collected. Administration of the survey for each represented trimester class took approximately one month to complete.

Survey Questionnaire

We developed a 44-item questionnaire, displayed in Appendix A, consisting of three topic groups: (1) demographics and pre-chiropractic college experience, (2) practice/post-graduate expectations, and (3). chiropractic philosophical beliefs. The first group of questions, labeled "Demographics and Experience," was constructed of eight questions designed in a multiple choice answer format, with instructions to choose the one most applicable answer. The second set of questions, labeled "Attitude of Future Career Characteristics," consisted of 12 questions representing survey questions 9-20. This second set of questions also was arranged in a multiple choice answer format with instructions to choose the one most applicable answer. The final category of questions, labeled "Chiropractic Philosophical Beliefs," consisted of 24 questions, representing survey questions 21-44. Questions 21 and 22 were designed in a multiple choice format with instructions to choose the one most applicable answer, while questions 23-44 were created in a 5-point Likert scale format. Responses to the survey for each participant were completed on a standard Scantron testing document.

Data Analysis

Responses were scanned, categorized and transferred onto a text file, and subsequently stored on the college's safe network. Data were summarized as percentages for all question responses and calculated means for responses to questions deemed appropriate.

Table 1. Demographics and experience.

Variable	Response	Percentage	
1. Gender (n = 664)	Male	63.4	
	Female	36.6	
2. The following best describes the number of trimesters I have	1–3	31.0	
been enrolled in the Doctor of Chiropractic degree program (n	4-6	30.7	
= 664)	7–9	29.2	
	10-12	8.1	
	13–15	0.9	
3. Age (n = 664)	20 Yrs or Younger	0.9	
	21-25 Yrs	63.1	
	26-30 Yrs	26.5	
	31 Yrs or Older	9.5	
4. Ethnic Origin (<i>n</i> = 658)	Male Female ave 1-3 m (n 4-6 7-9 10-12 13-15 20 Yrs or Younger 21-25 Yrs 26-30 Yrs 31 Yrs or Older Asian/Pacific Islander Black/African American Caucasian Hispanic/Latino Other Yes No No ed Associate Bachelor Masters PhD MD/DO Other Professional Degree None EPA 0-1.9 2.0-2.5 2.51-3.0 3.01-3.5	1.5	
	Black/African American	2.9	
	Caucasian	91	
	Hispanic/Latino	1.5	
	Other	3.0	
5. At least one member of my family has graduated from or	ave 1-3 m (n 4-6 7-9 10-12 13-15 20 Yrs or Younger 21-25 Yrs 26-30 Yrs 31 Yrs or Older Asian/Pacific Islander Black/African American Caucasian Hispanic/Latino Other Yes No Idan Yes No Idan Yes No Other Hop Mo/DO Other Professional Degree None EPA 0-1.9 2.0-2.5	14.4	
s currently enrolled in an accredited Doctor of Chiropractic degree program (<i>n</i> = 659)	No	85.6	
6. I received treatment from a licensed Chiropractic physician	4-6 7-9 10-12 13-15 20 Yrs or Younger 21-25 Yrs 26-30 Yrs 31 Yrs or Older Asian/Pacific Islander Black/African American Caucasian Hispanic/Latino Other Yes No Yes No Associate Bachelor Masters PhD MD/DO Other Professional Degree None 0-1.9 2.0-2.5 2.51-3.0	84.0	
prior to enrollment in chiropractic college ($n = 662$)	No	16.0	
7. The following is the highest level of degree I have received	Associate	13.4	
prior to enrollment in the Doctor of Chiropractic degree	Bachelor	67.0	
orogram (n = 664)	Masters	2.4	
	PhD	0.3	
	MD/DO	0.2	
	Other Professional Degree	0.5	
	None	16.3	
3. The following best describes my overall undergraduate GPA	0-1.9	0.2	
orior to enrollment in the Doctor of Chiropractic degree pro-	2.0-2.5	3.5	
gram (n = 664)	2.51-3.0	21.2	
	3.01-3.5	46.5	
	3.51-4.0	28.6	

RESULTS

Of a possible 877 potential eligible students, 664 chiropractic students participated voluntarily in our study, yielding a 75% participation rate. The study failed to produce a 100% completion rate for each question and, therefore, a variance of 642–664 responses are recorded per item. Table 1 illustrates response percentages of participant demographic and experience background. The respondents were represented mostly by groups 21–25 years of age (63.1%), Caucasians (91%), and males (63.4%).

The majority of respondents were reported to have been treated by a chiropractor before enrollment (84%) and to have no relatives who have attended or are attending chiropractic school (85.6%). The bulk of students were reported to have previously completed a bachelor's degree (67%) and a large portion of students reported an undergraduate GPA of 3.01–3.50 (46.5%).

Table 2 represents the second section of the survey, encompassing questions related to attitudes of future career characteristics. The respondents showed strong favoritism toward the expectation of working in a private

Table 2. Attitudes of future career characteristics.

Variable	Response	Percentage	
9. The following is the highest level of degree I plan	Masters	51.1	
to pursue following graduation from the Doctor of	PhD	6.0	
Chiropractic degree program ($n = 662$)	MD/DO	2.9	
	Other professional degree	6.2	
	None	33.8	
10. I plan to implement the following technique	Diversified	64.0	
as my primary technique in my future treatment of	Logan Basic	2.8	
patients (n = 633)	Thompson	3.0	
	Activator	1.9	
	Gonstead	4.7	
	Sacro-occipital	1.7	
		3.3	
	Graston	0.9	
	ART	5.2	
	Upper cervical	1.7	
	Cox flexion/distraction	1.9	
	MPI	5.4	
	Manipulation under anesthesia	0	
	Other	3.3	
11. I plan to become certified in chiropractic	Masters PhD MD/DO Other professional degree None Diversified Logan Basic Thompson Activator Gonstead Sacro-occipital Applied kinesiology Graston ART Upper cervical Cox flexion/distraction MPI Manipulation under anesthesia	39.6	
acupuncture ($n = 661$)	No	28.6	
	Unsure at this time	31.8	
12. I plan to become certified in animal chiropractic	Yes	14.0	
(n = 663)	No	63.2	
	Unsure at this time	22.8	
13. The following best describes how I primarily plan	Private practice	89.1	
to implement my degree immediately following		0.5	
graduation from the Doctor of Chiropractic degree		0.8	
orogram $(n = 661)$	· ·	9.7	
14. The following description best illustrates the office		16.7	
setting I plan to practice in immediately following graduation from the Doctor of Chiropractic degree program ($n = 663$)	Member of multiple chiropractic practice Group (Ind. contractor/	39.8	
		28.7	
		12.5	
	Not applicable	2.3	
15. I plan to work in an office that accepts $(n = 664)$	Cash only	6.3	
		0.5	
	•	76.1	
		16.6	
		0.6	

Table 2. Continued.

Variable	Response	Percentage
16. I plan to sell nutritional supplements in my future	Yes	67.1
practice (n = 663)	No	8.0
	Unsure at this time	24.6
	Not applicable	0.3
17. I plan to sell foot orthotics in my future practice	Yes	45.8
(n = 662)	No	16.0
	Unsure at this time	37.6
	Not applicable	0.6
18. Which of the following income brackets do you	\$0-\$40,000	11.7
expect to fall under 1 year after graduation from the	\$40,001-\$60,000	46.4
Doctor of Chiropractic degree program? ($n = 664$)	\$0-\$40,000 the \$40,001-\$60,000 \$60,001-100,000 \$100,000-\$500,000 More than \$500,000	34.9
		6.0
	More than \$500,000	0.9
19. Which of the following income brackets do you	\$0-\$40,000	0.3
expect to fall under 5 years after graduation from the	\$40,001-\$60,000	4.4
Doctor of Chiropractic degree program? ($n = 664$)	Yes	39.8
	\$100,000-\$500,000	49.8
	More than \$500,000	5.7
20. Which of the following income brackets do you	\$0-\$40,000	0.3
expect to fall under 10 years after graduation from	\$40,001-\$60,000	0.3
the Doctor of Chiropractic degree program? (<i>n</i> = 663)	\$60,001-100,000	12.8
	\$100,000-\$500,000	69.8
	More than \$500,000	16.7

Table 3. Chiropractic philosophic beliefs.

Variable	Response	Percentage	
21. The following best describes the standard mini-	2.0	5.3	
mum undergraduate GPA I feel must be achieved for	2.5	16.6	
consideration of admissions into an accredited Doctor of Chiropractic degree program $(n = 664)$	2.75	22.9	
Tel el el mopidene degles preglam (1 = ee l)	3.0	49.7	
	3.5	5.6	
22. Which of the following scope of practice para-	Subluxation only	2.3	
digms do you believe to be most appropriate for the	Neuromusculoskeletal only	5.6	
chiropractic profession ($n = 663$)	Primary care physician	15.5	
	Alternative medicine health practitioner	5.4	
	Any combination of the above	71.2	

practice immediately following graduation (89.1%) and anticipated an income of at least \$100,000 at some point in their career. Table 2 displays each item in this section with its corresponding response percentages.

Table 3 shows the first two items and response percentages of the section encompassing chiropractic philosophical beliefs. The majority of respondents felt a minimum of a 3.0 undergraduate GPA must be achieved for consideration of admission into chiropractic school (49.7%). Additionally, a preference to avoid a narrowing of the chiropractic scope of practice to one paradigm was shown (71.2%).

Table 4 displays the percentages and mean of responses to each question concerning the topic of chiropractic

Table 4. Chiropractic philosophical beliefs.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Mean'
23. A standardized entrance exam should be a required aspect of the Doctor of Chiropractic degree admissions process (n = 664)	35.7	30.6	19.4	10.2	4.1	2.16
24. A post-graduate residency should be a requirement prior to chiropractic licensure (n = 664)	13.9	30.6	28.2	20.5	6.9	2.49
25. The inclusion of non-chiropractic post-graduate degrees being offered at chiropractic institutions is a positive addition ($n = 663$)	31.5	40.4	19.0	6.0	3.0	2.08
26. There should not be any mandatory specific chiropractic adjusting techniques in chiropractic college and each student should be allowed to choose which technique(s) to focus on (n = 664)	10.7	20.2	24.5	34.0	10.5	3.13
27. The chiropractic profession should have a relatively uniform scope of oractice congruent among every state in the United States (n = 663)	35.1	43.6	14.3	6.0	0.9	1.93
28. The chiropractic profession should opposition itself to orthodox medicine instead of integrating itself as a part of mainstream healthcare, along with medicine (n = 663)	6.8	15.0	26.8	33.5	17.8	3.40
29. Chiropractic physicians are fully qualified and competent to diagnose disease (n = 663)	35.9	43.1	15.8	4.1	1.1	1.91
30. Chiropractic physicians should be able to prescribe medications with appropriate training (n = 664)	14.9	24.8	20.3	22.6	17.3	3.02
31. The chiropractic profession should continue to hold strongly to the word 'subluxation" (n = 664)	27.9	35.4	27.4	6.2	3.2	2.21
32. New and emerging scientific data is more important than traditional chiropractic theory for the advancement of the chiropractic profession (n = 663)	36.7	37.4	17.2	7.5	1.2	1.99
33. Subluxations/vertebral subluxation complexes are the cause of all disease (n = 664)	3.0	7.8	19.3	43.2	26.7	3.82
34. "Bone out of place/vertebral misalignment" is a satisfactory explanation to why a Chiropractic ohysician performs spinal manipulation (n = 659)	3.5	18.2	20.5	38.7	19.1	3.51

Table 4. Continued.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Mean*
35. Chiropractic adjustments are an effective primary treatment for hypertension (<i>n</i> = 657)	11.4	39.1	29.2	17.0	3.2	2.61
36. Chiropractic adjustments are an effective primary treatment for asthma (n = 656)	14.8	46.0	26.8	10.5	1.8	2.38
37. Chiropractic adjustments are an effective primary treatment for otitis media (inner ear infection) (n = 656)	18.1	41.3	31.3	7.5	1.8	2.33
38. Chiropractic adjustments are an effective primary treatment for depression (n = 657)	10.2	33.9	32.9	17.5	5.5	2.74
39. Chiropractic adjustments are an effective primary treatment for cancer (n = 657)	3.5	8.4	21.3	33.2	33.6	3.85
40. Chiropractic adjustments are an effective primary treatment for AIDS (n = 655)	2.1	6.7	16.9	29.5	44.7	4.07
41. Every patient should undergo an X-ray of the spine prior to being treated with spinal manipulation (n = 654)	15.6	25.1	21.7	26.9	10.7	2.92
42. It is appropriate for every person to receive chiropractic adjustments beginning at birth ($n = 653$)	33.7	37.7	21.7	7.5	3.2	2.20
43. It is appropriate for every person to receive chiropractic adjustments for their entire life $(n = 653)$	40.1	38.9	13.2	5.5	2.3	1.90
44. Immunization is an effective form of disease prevention (<i>n</i> = 642)	7.8	27.3	32.2	18.8	13.9	3.03

Numbers are reported as percentages unless noted otherwise.

philosophic beliefs. Respondents had a mean of 2.21 concerning the profession holding strongly to the term, "subluxation" (1 = Strongly Agree, 5 = Strongly Disagree). Participants overwhelmingly reported to "Strongly Agree" or "Agree" with the statement that new and emerging data are more important than traditional chiropractic theory for the advancement of the chiropractic profession, displaying a mean of 1.99. The majority of respondents reported to "Agree" that chiropractic adjustments are an effective primary treatment for hypertension (39.1%), asthma (46.0%), otitis media (41.3%), and depression (33.9%), that all patients should undergo an X-ray before treatment with spinal manipulation (25.1%), and that it is appropriate for every person to receive chiropractic adjustments beginning at birth (37.7%). Additionally, respondents

reported to favor the idea that it is appropriate for every person to receive chiropractic adjustments for their entire life, showing a mean response of 1.90.

DISCUSSION

The rate of participation in this cross-sectional study was strong, despite using one student recruitment method. This exemplifies the strength of our approach to contact students in a classroom setting to offer participation and administer the study simultaneously. The 25% nonresponse rate may be attributed to the absence of students from the particular class of survey administration on that day or recruits who decided to not participate in our study.

^{*}Mean scores of Likert scale, where 1 = Strongly Agree and 5 = Strongly Disagree.

Appendix A. Survey instrument

Previous surveys among North American chiropractors, although limited, have resulted in a specific theme of thoughts and patterns of practicing chiropractors. The results of this survey indicate that current students enrolled in Logan College of Chiropractic Doctor of Chiropractic degree program share certain views with practicing North American chiropractors.

Students participating in our study share views with practicing chiropractors in North America regarding the retaining of the term "subluxation." Respondents in this survey exhibit an overall neutral stance regarding the appropriateness of chiropractors prescribing medication accompanied by appropriate training. Practicing chiropractors remain neutral on the topic of chiropractic rights to prescribing over-the-counter medications and medications relating to musculoskeletal conditions; however, they overwhelmingly oppose the right to prescribe all medicines. 15

Respondents of this survey indicated a trend of support of the importance for new and emerging scientific data over traditional chiropractic theory. However, the respondents implied an overall ideology of support for chiropractic adjustments being a worthy primary treatment for hypertension, asthma, otitis media, and depression, despite the lack of supporting evidence.¹⁶ Practicing North American chiropractors share a similar viewpoint, reporting that chiropractic adjustments elicit improvement in some non-musculoskeletal ailments.¹⁵ Furthermore, participants represented a support for the practice of performing a spinal X-ray on each patient before treating with spinal manipulation, even though current guidelines strongly oppose this idea. 17,18 Respondents held the unsubstantiated notions that each individual should receive chiropractic adjustments and each individual should receive chiropractic adjustments for life.

Like students in past studies that have investigated chiropractic students, the majority of students in our study came from non-chiropractic family backgrounds. Pespondents of this study held comparable expectations of student respondents in similar studies, expecting to earn more than \$100,000 annual income. ²⁰

It is noteworthy to mention the results from our study are a result of specific sampling of students narrowed to one individual institution at one particular point in time. The responses may result from a bias of a particular common theme of student demographics and/ or philosophic beliefs that represent the student body at this institution at this time in history. Differences among chiropractic students at differing chiropractic institutions at different segments in history may offer contrary results to the collected data in our study. Future studies relating to this theme should concentrate on expanding the participant profile to other students enrolled in North American chiropractic colleges. Future investigations focusing on topics similar to our study

should include more specific and probing questions regarding views on the future of the profession. Inquiries into the originations of philosophic beliefs of chiropractic students should become an area of future study.

Limitations

Our study was limited by non-response, possibly yielding a degree of response bias similar to other studies.21 The survey contained grammatical and typographical errors, enhancing the opportunity to misunderstand the question, resulting in an invalid response. Response/recall error, such as difficulty recalling and reporting accurate undergraduate GPA, may have influenced the results of our study. An unclear definition of "Income" may have affected accurate responses for questions 18–20 of the survey. Responses for questions 36-40 may have been influenced by potential ambiguity from the wording of the questions. Respondents may have had difficulty understanding the intended definition of "primary treatment" in questions 36-40, resulting in potential response error. Additional response bias may have been present due to the length of time to administer the survey to each individual class. Discussion among students who had and had not yet participated may have affected responses. Similar to other studies of this nature, the self-reporting form of this survey data may be interpreted as being personal in nature, provoking disapproval of the study.¹⁴ Statistical analysis was limited due to time constraints, a lack of access to proper format storage, and analysis software.

CONCLUSION

The results of the survey show a relationship between the opinions of current chiropractic students and the opinions of currently practicing chiropractors on related questionnaires. Certain aspects of student demographics and income expectations are comparable to previous studies of chiropractic students. Current chiropractic students represent the newest wave of chiropractic practitioners, and the opinions of current students enrolled at Logan College of Chiropractic may influence how the chiropractic profession continues to develop in a modern and everchanging health care system.

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CONFLICTS OF INTEREST

The authors have no competing interests to declare.

About the Authors

Jordan A. Gliedt is in private practice in Fayetteville, Arkansas; Shaun Briggs is in private practice in West Haven, Connecticut; Joshua Williams is in private practice in Cedar City, Utah; Derek Smith is in private practice in Pocahontas, Arkansas; and Joseph Blampied is in private practice. Address correspondence to Jordan Gliedt, NWA Spine and Joint, 3900 N. Parkview Dr., Suite 203, Fayetteville, AR 72703 (e-mail: drgliedt@nwaspineandjoint.com). This article was received November 21, 2011; revised February 24, February 29, and April 4, 2012; and accepted April 23, 2012.

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Appendix A. Survey Instrument

Demographics and Experience

- 1. Gender:
 - a. Male
 - b. Female
- 2. The following best describes the number of trimesters I have been enrolled in the Doctor of Chiropractic degree program:
 - a. 1-3 Trimesters
 - b. 4-6 Trimesters
 - c. 7-9 Trimesters
 - d. 10-12 Trimesters
 - e. 13-15 Trimesters
- 3. Age:
 - a. 20 Years or Younger
 - b. 21-25 Years
 - c. 26-30 Years
 - d. 31 Years or Older
- 4. Ethnic Origin: (Optional)
 - a. Asian/Pacific Islander
 - b. Black/African American
 - c. Caucasian
 - d. Hispanic/Latino
 - e. Other
- 5. At least one member of my family has graduated from or is currently enrolled in an accredited Doctor of Chiropractic degree program:
 - a. Yes
 - b. No

- 6. I received treatment from a licensed Chiropractic physician prior to enrollment in chiropractic college:
 - a. Yes
 - b. No
- 7. The following is the highest level of degree I have received prior to enrollment in the Doctor of Chiropractic degree program:
 - a. Associate
- ab. Other Professional Degree
- b. Bachelor
- ac. None
- c. Masters
- d. PhD
- e. MD/DO
- 8. The following best describes my overall undergraduate GPA prior to enrollment in the Doctor of Chiropractic degree program?
 - a. 0 1.9
 - b. 2.0 2.5
 - c. 2.51 3.0
 - d. 3.01 3.5
 - e. 3.51 4.0

Attitude of Future Career Characteristics

- 9. The following is the highest level of degree I plan to pursue following graduation from the Doctor of Chiropractic degree program:
 - a. Masters
 - b. PhD
 - c. MD/DO
 - d. Other Professional Degree
 - e. None
- 10. I plan to implement the following technique as my primary technique in my future treatment of patients:
 - a. Diversified
- ab. Sacro-Occipital
- bd. Cox Flexion/Distraction

- b. Logan Basic
- ac. Applied Kinesiology
- be. MPI

- c. Thompson
- ad. Graston

cd. Manipulation Under Anesthesia

- d. Activator
- ae. ART®

ce. Other

- e. Gonstead
- bc. Upper Cervical

- 11. I plan to become certified in chiropractic acupuncture:
 - a. Yes
 - b. No
 - c. Unsure At This Time
- 12. I plan to become certified in animal chiropractic:
 - a. Yes
 - b. No
 - c. Unsure At This Time
- 13. The following best describes how I primarily plan to implement my degree immediately following graduation from the Doctor of Chiropractic degree program:
 - a. Private Practice
 - b. Research
 - c. Teaching
 - d. Other
- 14. The following description best illustrates the office setting I plan to practice in immediately following graduation from the Doctor of Chiropractic degree program:
 - a. Solo Practitioner
 - b. Member of Multiple Chiropractic Practice Group (Ind. Contractor / Partnership)
 - c. Associate Working Under Another Chiropractic Physician
 - d. Member of Multi-Disciplinary Health Care Practice
 - e. Not Applicable
- 15. I plan to work in an office that accepts:
 - a. Cash Only
 - b. Insurance Only
 - c. Cash & Insurance
 - d. Unsure At This Time
 - e. Not Applicable
- 16. I plan to sell nutritional supplements in my future practice:
 - a. Yes
 - b. No
 - c. Unsure At This Time
 - d. Not Applicable

- 17. I plan to sell foot orthotics in my future practice:
 - a. Yes
 - b. No
 - c. Unsure At This Time
 - d. Not Applicable
- 18. Which of the following income brackets do you expect to fall under 1 year after graduation from the Doctor of Chiropractic degree program?
 - a. \$0 \$40,000
 - b. \$40,001 \$60,000
 - c. \$60,001 \$100,000
 - d. \$100,001 \$500,000
 - e. More than \$500,000
- 19. Which of the following income brackets do you expect to fall under 5 years after graduation from the Doctor of Chiropractic degree program?
 - a. \$0 \$40,000
 - b. \$40,001 \$60,000
 - c. \$60,001 \$100,000
 - d. \$100,001 \$500,000
 - e. More than \$500,000
- 20. Which of the following income brackets do you expect to fall under after 10 years after graduation from the Doctor of Chiropractic degree program?
 - a. \$0 \$40,000
 - b. \$40,001 \$60,000
 - c. \$60,001 \$100,000
 - d. \$100,001 \$500,000
 - e. More than \$500,000

Chiropractic Philosophical Beliefs

- 21. The following best describes the standard minimum undergraduate GPA I feel must be achieved for consideration of admissions into an accredited Doctor of Chiropractic degree program:
 - a. 2.0
 - b. 2.5
 - c. 2.75
 - d. 3.0
 - e. 3.5

22.	Which of the following appropriate for the characteristic and appropriate for the characteristic appropriate for the char	niropractic prof eletal Only vsician cine Health Pra	ession:	s do you believ	e to be most
23.	A standardized entrandegree admissions pr		d be a required	aspect of the D	Ooctor of Chiropractic
	A. Strongly Agree	B. Agree	C. Neutral	D. Disagree	E. Strongly Disagree
24.	A post-graduate resid	•	-		ractic licensure: E. Strongly Disagree
25.	The inclusion of non- institutions is a positi A. Strongly Agree	ve addition:			ered at chiropractic E. Strongly Disagree
26.	There should not be a chiropractic college a focus on:	•			techniques in which technique(s) to
	A. Strongly Agree	B. Agree	C. Neutral	D. Disagree	E. Strongly Disagree
27.	amongst every state i	n the United St	ates:	•	e of practice congruent
	A. Strongly Agree	B. Agree	C. Neutral	D. Disagree	E. Strongly Disagree
28.	The chiropractic profintegrating itself as a				
	A. Strongly Agree	B. Agree	C. Neutral	D. Disagree	E. Strongly Disagree
29.	Chiropractic physicia	• •			
	A. Strongly Agree	B. Agree	C. Neutral	D. Disagree	E. Strongly Disagree
30.	Chiropractic physicia A. Strongly Agree	nns should be al B. Agree	ble to prescribe C. Neutral		ith appropriate training: E. Strongly Disagree
31.	The chiropractic prof A. Strongly Agree	Pession should of B. Agree			e word "subluxation": E. Strongly Disagree

32.					ific data is i		_	tha	n traditiona	ıl ch	niropractic theory	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
33.	Sub	luxations	/Vertebra	al S	ubluxation (Con	nplexes are	the	cause of all	dis	sease:	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
34.					bral Misalig erforms spin				ctory expla	nati	ion to why a	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
35.	Chi	ropractic	adjustme	nts	are an effec	etive	e primary tr	eatn	nent for hyp	ert	ension:	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
36.	Chi	ropractic	adjustme	nts	are an effec	etive	e primary tr	eatn	nent for ast	hma	ı:	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
37.	Infe	ection):									nedia (Inner Ear	
	A. S	Strongly A	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
38.	Chiı	ropractic	adjustme	nts	are an effec	ctive	e primary tr	eatn	nent for dep	ores	sion:	
		_	-				_		_		Strongly Disagree	
39.	Chi	ropractic	adjustme	nts	are an effec	etive	e primary tr	eatn	nent for car	icer	:	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
40.	Chii	ropractic	adjustme	nts	are an effec	etive	e primary tr	eatn	nent for All	DS:		
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
		ry patien		ınde	ergo an X-ra	ay o	of the spine	prio	or to being t	reat	ed with spinal	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
42.	It is	appropri	ate for ev	ery	person to r	ecei	ive chiropra	ctic	adjustmen	ts b	eginning at birth:	
				-	-		-		•		Strongly Disagree	
43.	It is	appropri	ate for ev	ery	person to r	ecei	ive chiropra	ctic	adjustmen	ts fo	or their entire life:	
	A. S	Strongly	Agree	В.	Agree	C.	Neutral	D.	Disagree	E.	Strongly Disagree	
44.	Imn	nunizatio	n is an ef	fect	tive form of	dis	ease preven	tion	n:			
			Agree				-			E.	Strongly Disagree	