



2018 **AUDIOLOGY** SURVEY

Survey Summary Report: Number and Type of Responses

Suggested Citation:

American Speech-Language-Hearing Association. (2019). *2018 Audiology survey. Survey summary report: Number and type of responses*. Available from www.asha.org.

Contents

Sampling and Response Rates	3
ASHA Services and Programs: Qs. 1–2	4
Workforce: Q. 3	7
Employment and Earnings: Qs. 4–17	8
Service Provision: Qs. 18–20	25
Programs and Resources: Qs. 21–22	34
Electronic Medical Records: Qs. 23–24.....	42
Demographics: Qs. 25–33.....	45
Appendix.....	54

Sampling and Response Rates

ASHA used probability (non-replacement) sampling via a stratified systematic technique to select a sample of 4,500 ASHA-certified audiologists for the *2018 Audiology Survey*. The sample was stratified by type of facility and private practice, and data have been weighted to reflect their proportion by facility and private practice in the Association. ASHA oversampled small groups, such as audiologists who work in industry, in order to have sufficient numbers from these groups included in the sample.



A response rate of 39.7% was obtained (1,756 completed surveys from a net sample of 4,420 eligible audiologists). This percentage is unweighted.

Data were weighted for all tables in the report. The *All facility types* column throughout the report reflects results for respondents from the five facility types as well as from the 29 respondents who were employed in “other” types of facilities and respondents who did not answer the question about their type of facility. Therefore, the *All facility types* column may not be the sum of the *n*'s in the other five columns. Data are not presented for table cells with fewer than 25 respondents or for those who indicated that they were employed in an *other* facility. Administrative offices were excluded for questions in which responses were limited to clinical service providers.

A description of statistical terms used in the report can be found in the Appendix.

ASHA Services and Programs

<p>1. In your opinion, what kind of job is the Association doing in serving its audiology members? (Percentages) Analyses limited to respondents who met the following criterion: ❖ CCC-A</p>						
Response	Facility type					
	All facility types (n = 1,716)	College/ university (n = 142)	Hospital (n = 439)	Franchise/ retail chain (n = 67)	Nonres. health care (n = 860)	Industry (n = 74)
Poor	11.3	4.9	10.7	11.9	13.0	6.8
Fair	43.9	37.3	44.9	46.3	45.2	50.0
Good	40.0	50.0	39.0	38.8	37.3	40.5
Excellent	4.8	7.7	5.5	3.0	4.4	2.7
		<p>Statistical significance: $\chi^2(12) = 20.5, p = .058$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.</p>				

2. Rate your agreement with the following statements: strongly disagree (SD), disagree (D), agree (A), strongly agree (SA). (See shaded boxes below.)

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Payment Source	Facility type					
	All facility types	College/university	Hospital	Franchise/retail chain	Nonres. health care	Industry
At ASHA, I feel I belong.						
	<i>n</i> = 1,699	<i>n</i> = 138	<i>n</i> = 434	<i>n</i> = 65	<i>n</i> = 853	<i>n</i> = 74
Strongly disagree	9.6	3.6	7.6	9.2	12.0	5.4
Disagree	30.5	24.6	30.9	35.4	30.6	35.1
Agree	52.0	57.2	54.8	50.8	50.4	50.0
Strongly agree	7.9	14.5	6.7	9.2	7.0	9.5
Statistical significance: $\chi^2(12) = 28.3, p = .005$, Cramer's V = .078 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						
ASHA is an organization I trust.						
	<i>n</i> = 1,695	<i>n</i> = 139	<i>n</i> = 436	<i>n</i> = 66	<i>n</i> = 848	<i>n</i> = 74
Strongly disagree	2.8	0.0	1.4	1.5	3.9	2.7
Disagree	12.8	9.4	13.5	16.7	13.6	9.5
Agree	63.0	64.7	67.2	59.1	60.3	64.9
Strongly agree	21.4	25.9	17.9	22.7	22.3	23.0
Statistical significance: $\chi^2(12) = 21.3, p = .046$, Cramer's V = .067 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						
(Q. 2 continues on next page.)						

2. (cont'd.) Rate your agreement with the following statements: strongly disagree (SD), disagree (D), agree (A), strongly agree (SA).

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Payment Source	Facility type					
	All facility types	College/university	Hospital	Franchise/retail chain	Nonres. health care	Industry
ASHA values me.						
	<i>n</i> = 1,655	<i>n</i> = 135	<i>n</i> = 426	<i>n</i> = 62	<i>n</i> = 829	<i>n</i> = 74
Strongly disagree	7.5	4.4	5.4	6.5	9.0	8.1
Disagree	31.2	25.2	30.3	30.6	33.5	31.1
Agree	52.1	57.0	55.6	58.1	48.6	48.6
Strongly agree	9.2	13.3	8.7	4.8	8.8	12.2
		Statistical significance: $\chi^2(12) = 18.9, p = .091$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				
I recommend ASHA as a resource to colleagues.						
	<i>n</i> = 1,675	<i>n</i> = 138	<i>n</i> = 431	<i>n</i> = 64	<i>n</i> = 838	<i>n</i> = 74
Strongly disagree	8.4	2.9	6.0	10.9	11.1	5.4
Disagree	30.4	15.2	29.0	29.7	34.7	32.4
Agree	48.4	53.6	51.7	51.6	43.8	51.4
Strongly agree	12.7	28.3	13.2	7.8	10.4	10.8
		Statistical significance: $\chi^2(12) = 68.2, p = .000$, Cramer's V = .121 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.				

Workforce

3. Based on your own observations and experiences, how would you rate the current job market for audiologists in your type of employment facility and in your geographic area? (Percentages)
 Analyses limited to respondents who met the following criterion:
 ❖ CCC-A

Rating	Facility type					
	All facility types (n = 1,712)	College/ university (n = 140)	Hospital (n = 448)	Franchise/ retail chain (n = 69)	Nonres. health care (n = 853)	Industry (n = 76)
More job openings than job seekers	22.0	27.9	12.3	31.9	25.3	26.3
Job openings and job seekers in balance	38.7	47.1	39.3	31.9	39.9	35.5
Fewer job openings than job seekers	39.3	25.0	48.4	36.2	34.8	38.2
Statistical significance: $\chi^2(8) = 53.9, p = .000$, Cramer's V = .130 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						



Employment and Earnings

4. Which one of the following categories best describes your employment status?
 Analyses limited to respondents who met the following criterion:
 ❖ CCC-A

Status	Facility type					
	All facility types (n = 1,649)	College/ university (n = 143)	Hospital (n = 452)	Franchise/ retail chain (n = 68)	Nonres. health care (n = 875)	Industry (n = 77)
Employed full time	78.2	90.2	80.1	83.8	73.7	90.9
Employed part time	21.8	9.8	19.9	16.2	26.3	9.1
Not currently employed (SKIP to Q. 28.)	Removed from analyses					
	Statistical significance: $\chi^2(4) = 31.9$, $p = .000$, Cramer's V = .141 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.					

5. Do you currently work in a private practice?
 Analyses limited to respondents who met the following criteria:
 ❖ CCC-A
 ❖ Employed full time or part time

Response	Facility type					
	All facility types (n = 1,625)	College/ university (n = 138)	Hospital (n = 445)	Franchise/ retail chain (n = 67)	Nonres. health care (n = 866)	Industry (n = 73)
No (SKIP to Q. 8.)	55.6	87.0	80.2	28.4	37.6	76.7
Yes—full time	30.9	2.2	10.1	59.7	45.8	17.8
Yes—part time	13.4	10.9	9.7	11.9	16.5	5.5
	Statistical significance: $\chi^2(8) = 334.9$, $p = .000$, Cramer's V = .325 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.					

<p>6. Which one of the following best describes your involvement in a private practice? Analyses limited to respondents who met the following criteria:</p> <ul style="list-style-type: none"> ❖ CCC-A ❖ Employed full time or part time ❖ Replied Yes to Q. 5 						
Response	Facility type					
	All facility types (n = 712)	College/ university (n = 16)	Hospital (n = 88)	Franchise/ retail chain (n = 49)	Nonres. health care (n ≥ 533)	Industry (n ≥ 16)
Owner (e.g., office-based or contract-based private practice)	42.2	(n < 25)	45.5	32.7	41.9	(n < 25)
Full-time salaried employee	33.9		33.0	51.0	33.5	
Part-time salaried employee	11.1		9.1	6.1	12.2	
Contractor/consultant (e.g., per diem, hourly, or temporary)	12.9		12.5	10.2	12.4	
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Collapsed categories						
Owner	42.2	(n < 25)	45.5	32.7	42.0	(n < 25)
Full-time, part-time salaried employee; contractor or consultant	57.8		54.5	67.3	58.0	
		Statistical significance: $\chi^2(4) = 5.9, p = .208$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				

7. Which of the following best describes your private practice employment arrangement? *Select all that apply.*
 Analyses limited to respondents who met the following criteria:
 ❖ CCC-A
 ❖ Employed full time or part time
 ❖ Replied Yes to Q. 5

Response	Facility type					
	All facility types (n = 721)	College/ university (n ≥ 17)	Hospital (n = 88)	Franchise/ retail chain (n ≥ 48)	Nonres. health care (n = 540)	Industry (n = 18)
Self-employed in a private practice	42.2	(n < 25)	45.5	32.7	41.1	(n < 25)
	Statistical significance: $\chi^2(4) = 4.8, p = .309$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.					
Employed in a private practice owned by other audiologists	17.4	(n < 25)	12.5	18.8	19.3	(n < 25)
	Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.					
Employed in a private practice owned by non-audiologists (e.g., physicians, manufacturers, commercial entities)	41.4	(n < 25)	42.0	49.0	41.3	(n < 25)
	Statistical significance: $\chi^2(4) = 1.6, p = .804$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.					

8. Although you may work in several types of facilities, select the one type of building that best describes where you work all or most of the time. *For individuals who work in private practice or multiple settings, select the type of building in which you deliver most of your services. Only one response can be accepted.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time

Facility	Percentages (n = 1,643)
College/university	8.7
Hospital (general, pediatric, military, VA)	27.5
Audiology franchise, retail chain	4.1
Nonresidential health care facility (includes audiologists' and physicians' offices)	53.3
Industry (hearing aid manufacturing, hearing conservation)	4.7
Other, specify:	1.7



ASHA 2018 Audiology Survey: Survey Summary Report

9. Although you may perform more than one job function, select the one position that best describes how you spend most of your time. *Only one answer can be accepted.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time

Function	Facility type					
	All facility types (n = 1,634)	College/ university (n = 142)	Hospital (n = 445)	Franchise/ retail chain (n = 66)	Nonres. health care (n ≥ 871)	Industry (n = 77)
Clinical service provider (includes all individuals providing any direct service)	81.3	14.1	89.2	87.9	95.6	5.2
College/university faculty/clinical educator	6.1	69.0	0.0	0.0	0.1	0.0
Researcher	1.7	7.7	1.6	0.0	0.0	13.0
Consultant	1.5	0.0	0.7	1.5	0.3	20.8
Administrator/ supervisor/director	5.6	9.2	7.9	3.0	2.9	9.1
Sales/training/technical support	3.7	0.0	0.7	7.6	1.0	50.6
Other, specify:	0.1	0.0	0.0	0.0	0.0	1.3
Too many cells (51%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.						
Collapsed categories						
Clinical service provider	81.3	14.1	89.2	87.9	95.8	5.2
Other function	18.7	85.9	10.8	12.1	4.2	94.8
Statistical significance: $\chi^2(4) = 880.8$, $p = .000$, Cramer's V = .742 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

Income data are used to provide information to members, students, policymakers, and others with a vested interest in the topic. Your responses will be reported in aggregate form only.

<p>10. How are you paid in your main job? <i>Select one response only.</i> Analyses limited to respondents who met the following criteria: ❖ CCC-A ❖ Employed full time or part time</p>						
Response	Facility type					
	All facility types (n = 1,615)	College/ university (n = 142)	Hospital (n = 447)	Franchise/ retail chain (n = 66)	Nonres. health care (n = 851)	Industry (n = 77)
Primarily per hour	25.3	4.2	26.2	24.2	30.4	10.4
Primarily annual salary (SKIP to Q. 13.)	72.4	95.8	73.2	71.2	66.0	88.3
Primarily commission (SKIP to Q. 15.)	2.3	0.0	0.7	4.5	3.5	1.3
<p>Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.</p>						



11. If you are paid on an hourly basis, what is the hourly rate you receive at your main job? *Include your hourly rate before all deductions. Bonuses and commissions will be asked about in separate questions. You may include decimals.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Hourly salary of at least \$1

Rate	Facility type					
	All facility types	College/university	Hospital	Franchise/retail chain	Nonres. health care	Industry
Worked 26 or fewer hours						
	<i>n</i> = 188	<i>n</i> = 5	<i>n</i> = 42	<i>n</i> = 6	<i>n</i> = 128	<i>n</i> = 6
25th percentile	\$35.00	<i>(n</i> < 25)	\$34.96	<i>(n</i> < 25)	\$35.00	<i>(n</i> < 25)
50th percentile (Median)	\$40.00		\$39.91		\$40.00	
75th percentile	\$50.00		\$48.56		\$50.00	
Mean	\$46.17		\$42.85		\$45.15	
Standard deviation	\$21.27		\$14.43		\$18.21	
Mode	\$45.00		\$45.00		\$40.00	
		Statistical significance: $F(4, 182) = 3.5, p = .009$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.				
Worked more than 26 hours						
	<i>n</i> = 182	<i>n</i> = 0	<i>n</i> = 60	<i>n</i> = 7	<i>n</i> = 113	<i>n</i> = 2
25th percentile	\$33.00	<i>(n</i> < 25)	\$35.00	<i>(n</i> < 25)	\$32.00	<i>(n</i> < 25)
50th percentile (Median)	\$38.00		\$40.05		\$37.00	
75th percentile	\$45.00		\$49.28		\$43.28	
Mean	\$39.98		\$43.46		\$38.56	
Standard deviation	\$12.57		\$13.47		\$11.52	
Mode	\$35.00		\$35.00		\$40.00	
		Statistical significance: $F(4, 177) = 2.0, p = .098$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				

12. How many hours do you work in a typical week for the hourly rate you entered in Q. 11? *You may include decimals.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Hourly salary of at least \$1
- ❖ Worked for at least 1 hour per week

Hours	Facility type					
	All facility types (n = 371)	College/ university (n = 6)	Hospital (n = 102)	Franchise/ retail chain (n = 13)	Nonres. health care (n = 241)	Industry (n = 8)
25th percentile	20.0	(n < 25)	21.2	(n < 25)	20.0	(n < 25)
50th percentile (Median)	25.0		32.0		25.0	
75th percentile	36.0		40.0		35.0	
Mean	26.8		29.2		26.2	
Standard deviation	11.1		10.4		11.2	
Mode	40.0		40.0		40.0	
		Statistical significance: $F(4, 365) = 4.7, p = .001$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.				

Note. The median number of *hours worked* was 27 when responses were limited to the 404 audiologists who worked full- or part time; 27 when responses were limited to the 404 audiologists who worked full- or part time and worked at least 1 hour per week; 26 when responses were limited to the 370 audiologists who worked full- or part time and earned at least \$1 per hour (in Q. 11); and was 25 when responses were limited to the 371 audiologists who worked full- or part time, worked at least 1 hour per week, and earned at least \$1 per hour (in Q. 12).

13. What is your base annual salary, before deductions, for your main job? *Bonuses and commissions will be asked about in separate questions.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time
- ❖ Annual salary of at least \$1

Salary	Facility type					
	All facility types	College/university	Hospital	Franchise/retail chain	Nonres. health care	Industry
Worked 9–10 months (academic year)						
	<i>n</i> = 57	<i>n</i> = 47	<i>n</i> = 2	<i>n</i> = 0	<i>n</i> = 5	<i>n</i> = 0
25th percentile	\$70,000	\$70,033	(<i>n</i> < 25)	(<i>n</i> < 25)	(<i>n</i> < 25)	(<i>n</i> < 25)
50th percentile (Median)	\$83,843	\$84,869				
75th percentile	\$96,000	\$97,651				
Mean	\$87,047	\$86,457				
Standard deviation	\$29,310	\$26,115				
Mode	\$80,000	\$80,000				
	Statistical significance: $F(2, 50) = 0.7, p = .491$ Conclusion: There is not enough evidence from the data to say that the responses vary by facility type.					
Worked 11–12 months (calendar year)						
	<i>n</i> = 953	<i>n</i> = 78	<i>n</i> = 279	<i>n</i> = 39	<i>n</i> = 479	<i>n</i> = 61
25th percentile	\$70,000	\$70,889	\$77,889	\$64,296	\$65,000	\$75,000
50th percentile (Median)	\$80,000	\$84,969	\$89,000	\$73,157	\$75,000	\$84,431
75th percentile	\$95,272	\$103,711	\$100,000	\$83,235	\$87,029	\$101,810
Mean	\$86,694	\$93,643	\$90,858	\$74,819	\$83,624	\$91,111
Standard deviation	\$33,330	\$35,763	\$20,206	\$17,389	\$39,398	\$32,658
Mode	\$80,000	\$65,000	\$100,000	\$80,000	\$70,000	\$83,000
	Statistical significance: $F(4, 931) = 4.5, p = .001$ Conclusion: There is adequate evidence from the data to say that the responses vary by facility type.					

14. For what period of work is this salary? *If you work for 9–10 months but are paid over a 12-month period, select response “1.” Select one response only.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Annual salary of at least \$1

Response	Facility type					
	All facility types	College/university	Hospital	Franchise/retail chain	Nonres. health care	Industry
	<i>n</i> = 1,106	<i>n</i> = 131	<i>n</i> = 308	<i>n</i> = 41	<i>n</i> = 536	<i>n</i> = 62
Work 9 or 10 months per year	5.5	36.6	1.0	0.0	1.1	0.0
Work 11 or 12 months per year	94.0	62.6	98.7	100.0	98.7	98.4
Work other period	0.5	0.8	0.3	0.0	0.2	1.6
	Too many cells (47%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.					
	<i>n</i> = 1,100	<i>n</i> = 130	<i>n</i> = 307	<i>n</i> = 41	<i>n</i> = 535	<i>n</i> = 61
Work 9 or 10 months per year	5.5	36.9	1.0	0.0	1.1	0.0
Work 11 or 12 months per year	94.5	63.1	99.0	100.0	98.9	100.0
Work other period	Removed from analyses					
	Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.					

15. What is the total amount you received as commissions during the past 12 months? Enter “0” if you did not receive a commission, and **SKIP** to Q. 17.

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Salary basis, Q. 10, *primarily hourly wage*
- ❖ Commission of at least \$1

Commission	Facility type					
	All facility types (n = 92)	College/ university (n = 0)	Hospital (n = 10)	Franchise/ retail chain (n = 1)	Nonres. health care (n = 81)	Industry (n = 0)
25th percentile	\$6,000	(n < 25)	(n < 25)	(n < 25)	\$5,852	(n < 25)
50th percentile (Median)	\$12,270				\$12,000	
75th percentile	\$18,402				\$18,326	
Mean	\$14,907				\$14,349	
Standard deviation	\$11,948				\$11,715	
Mode	\$15,000				\$15,000	
		Statistical significance: $F(2, 88) = 1.7, p = .184$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				
(Question 15 continues on next page.)						

15. (cont'd.) What is the total amount you received as commissions during the past 12 months? Enter "0" if you did not receive a commission, and SKIP to Q. 17.

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Salary basis, Q. 10, *primarily annual salary*
- ❖ Commission of at least \$1

Commission	Facility type					
	All facility types (n = 231)	College/ university (n = 1)	Hospital (n = 19)	Franchise/ retail chain (n = 21)	Nonres. health care (n = 172)	Industry (n = 14)
25th percentile	\$8,399	(n < 25)	(n < 25)	(n < 25)	\$8,000	(n < 25)
50th percentile (Median)	\$20,000				\$17,773	
75th percentile	\$33,700				\$30,000	
Mean	\$23,598				\$21,855	
Standard deviation	\$20,251				\$18,633	
Mode	\$20,000				\$20,000	
		Statistical significance: $F(4, 223) = 2.8, p = .027$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.				
(Question 15 continues on next page.)						

15. (cont'd.) What is the total amount you received as commissions during the past 12 months? Enter "0" if you did not receive a commission, and SKIP to Q. 17.

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Salary basis, Q. 10, *primarily commission*
- ❖ Commission of at least \$1

Commission	Facility type					
	All facility types (n = 29)	College/ university (n = 0)	Hospital (n = 3)	Franchise/ retail chain (n = 3)	Nonres. health care (n = 24)	Industry (n = 0)
25th percentile	\$46,000	(n < 25)	(n < 25)	(n < 25)	(n < 25)	(n < 25)
50th percentile (Median)	\$82,872					
75th percentile	\$139,054					
Mean	\$88,729					
Standard deviation	\$58,346					
Mode	\$48,000					



16. What percent commission did you receive on product sales during the past 12 months? *You may include decimals.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Commission of at least \$1
- ❖ Salary basis, Q. 10, *primarily hourly wage*

% Commission	Facility type					
	All facility types (n = 70)	College/ university (n = 0)	Hospital (n = 7)	Franchise/ retail chain (n = 1)	Nonres. health care (n = 63)	Industry (n = 0)
25th percentile	5.0	(n < 25)	(n < 25)	(n < 25)	5.0	(n < 25)
50th percentile (Median)	10.0				10.0	
75th percentile	16.1				17.8	
Mean	16.3				17.7	
Standard deviation	22.3				23.3	
Mode	10.0				10.0	
		Statistical significance: $F(2, 67) = 1.1, p = .349$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				
(Question 16 continues on next page.)						

16. (cont'd.) What percent commission did you receive on product sales during the past 12 months? *You may include decimals.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Commission of at least \$1
- ❖ Salary basis, Q. 10, *primarily annual salary*

% Commission	Facility type					
	All facility types (n = 173)	College/ university (n = 1)	Hospital (n = 12)	Franchise/ retail chain (n = 17)	Nonres. health care (n = 129)	Industry (n = 10)
25th percentile	5.0	(n < 25)	(n < 25)	(n < 25)	5.0	(n < 25)
50th percentile (Median)	8.0				10.0	
75th percentile	18.0				17.0	
Mean	15.7				15.0	
Standard deviation	22.1				19.6	
Mode	10.0				10.0	
		Statistical significance: $F(4, 164) = 0.9, p = .493$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.				
(Question 16 continues on next page.)						

16. (cont'd.) What percent commission did you receive on product sales during the past 12 months? *You may include decimals.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Commission of at least \$1
- ❖ Salary basis, Q. 10, *primarily commission*

% Commission	Facility type					
	All facility types (n = 26)	College/ university (n = 0)	Hospital (n = 3)	Franchise/ retail chain (n = 3)	Nonres. health care (n = 20)	Industry (n = 0)
25th percentile	8.8	(n < 25)	(n < 25)	(n < 25)	(n < 25)	(n < 25)
50th percentile (Median)	27.3					
75th percentile	75.0					
Mean	40.9					
Standard deviation	38.1					
Mode	100.0					



17. What is the total amount you received in bonuses during the past 12 months? *Enter "0" if you did not receive a bonus during the past 12 months.*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time
- ❖ Bonus of at least \$1

Bonus	Facility type					
	All facility types (n = 509)	College/ university (n = 11)	Hospital (n = 121)	Franchise/ retail chain (n = 20)	Nonres. health care (n = 320)	Industry (n = 32)
25th percentile	\$1,000	(n < 25)	\$600	(n < 25)	\$1,000	\$3,953
50th percentile (Median)	\$2,000		\$1,200		\$2,000	\$10,000
75th percentile	\$8,000		\$4,000		\$7,000	\$21,335
Mean	\$9,569		\$5,250		\$10,176	\$14,348
Standard deviation	\$22,375		\$10,228		\$25,011	\$12,918
Mode	\$1,000		\$1,000		\$1,000	\$10,000
		Statistical significance: $F(4, 499) = 3.1, p = .015$ Conclusion: There is adequate evidence from the data to say that the responses vary by facility type.				

Service Provision

<p>18. How often do you perform each of the following activities? <i>Please put one X in each row for the appropriate response. (See shaded boxes below.)</i></p> <p>Analyses limited to respondents who met the following criteria:</p> <ul style="list-style-type: none"> ❖ CCC-A ❖ Clinical service provider 						
Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Audiologic/aural rehabilitation: Demonstrate, fit, or dispense hearing assistive technology						
Never	12.0	(n < 25)	18.3	5.4	10.0	(n < 25)
Less than monthly	8.7		8.5	8.9	9.1	
Monthly	10.8		13.1	3.6	10.3	
Weekly	24.1		23.5	10.7	25.0	
Daily	44.3		36.6	71.4	45.7	
		<p>Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.</p>				
Audiologic/aural rehabilitation: Fit and dispense hearing aids						
Never	11.9	(n < 25)	18.4	3.6	9.7	(n < 25)
Less than monthly	2.2		3.9	1.8	1.5	
Monthly	4.0		7.0	0.0	3.1	
Weekly	27.9		27.8	12.7	28.7	
Daily	53.8		42.9	81.8	57.1	
		<p>Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.</p>				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Audiologic/aural rehabilitation: Fit and dispense personal sound amplification products (PSAPs)						
Never	66.4	(n < 25)	69.9	56.4	66.0	(n < 25)
Less than monthly	21.3		17.0	23.6	22.7	
Monthly	5.0		3.7	12.7	5.2	
Weekly	3.4		5.0	3.6	2.5	
Daily	3.8		4.5	3.6	3.7	
		Too many cells (48%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Audiologic/aural rehabilitation: Provide auditory training						
Never	51.3	(n < 25)	63.4	42.6	47.1	(n < 25)
Less than monthly	15.1		11.6	22.2	16.4	
Monthly	8.2		5.1	3.7	9.7	
Weekly	12.4		10.8	9.3	12.7	
Daily	12.8		9.1	22.2	14.1	
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Audiologic/aural rehabilitation: Provide informational counseling						
Never	4.2	(n < 25)	7.7	1.8	2.7	(n < 25)
Less than monthly	1.2		1.3	3.6	1.2	
Monthly	3.8		4.4	1.8	3.8	
Weekly	15.1		15.2	12.5	14.9	
Daily	75.8		71.5	80.4	77.4	
		Too many cells (48%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Perform cerumen management						
Never	38.2	(n < 25)	45.9	35.7	34.6	(n < 25)
Less than monthly	13.5		15.5	7.1	13.1	
Monthly	9.0		8.5	8.9	9.1	
Weekly	22.4		22.2	14.3	23.1	
Daily	16.9		8.0	33.9	20.1	
		Too many cells (36%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Program cochlear implants (CIs)						
Never	84.0	(n < 25)	75.5	100.0	87.2	(n < 25)
Less than monthly	3.4		5.5	0.0	2.9	
Monthly	1.9		1.8	0.0	2.0	
Weekly	6.2		9.1	0.0	5.3	
Daily	4.5		8.1	0.0	2.5	
		Too many cells (52%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Provide hearing conservation services						
Never	47.5	(n < 25)	55.8	54.4	43.4	(n < 25)
Less than monthly	24.6		19.0	21.1	27.1	
Monthly	14.8		12.7	10.5	15.9	
Weekly	8.8		7.3	12.3	9.5	
Daily	4.2		5.2	1.8	4.1	
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Provide telepractice services						
Never	85.7	(n < 25)	86.6	83.6	85.3	(n < 25)
Less than monthly	6.6		5.2	3.6	7.3	
Monthly	4.1		3.1	5.5	4.5	
Weekly	2.6		3.7	3.6	1.9	
Daily	1.1		1.3	3.6	1.0	
		Too many cells (56%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Provide tinnitus assessment/rehabilitation						
Never	41.6	(n < 25)	53.4	30.9	36.0	(n < 25)
Less than monthly	19.3		12.2	25.5	22.2	
Monthly	19.6		16.9	23.6	20.9	
Weekly	14.1		13.5	16.4	14.4	
Daily	5.4		3.9	3.6	6.5	
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Provide vestibular assessment and/or rehabilitation						
Never	63.5	(n < 25)	64.8	80.7	60.9	(n < 25)
Less than monthly	4.0		3.4	5.3	3.8	
Monthly	6.3		6.8	1.8	6.7	
Weekly	18.3		18.0	10.5	19.5	
Daily	7.9		7.0	1.8	9.1	
		Too many cells (48%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Validate treatment outcomes using self-report questionnaires						
Never	36.4	(n < 25)	35.5	25.0	37.6	(n < 25)
Less than monthly	16.5		15.5	14.3	17.2	
Monthly	13.0		13.5	14.3	12.5	
Weekly	19.5		21.8	19.6	18.6	
Daily	14.6		13.7	26.8	14.1	
		Too many cells (36%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 18 continues on next page.)						

18. (cont'd.) How often do you perform each of the following activities? *Please put one X in each row for the appropriate response. (See shaded boxes below.)*

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Activity	Facility type					
	All facility types (n ≥ 1,265)	College/ university (n ≥ 17)	Hospital (n ≥ 309)	Franchise/ retail chain (n ≥ 53)	Nonres. health care (n ≥ 740)	Industry (n ≥ 4)
Validate treatment outcomes using speech-in-noise testing						
Never	37.3	(n < 25)	37.6	30.4	38.2	(n < 25)
Less than monthly	17.2		16.2	23.2	17.6	
Monthly	12.0		14.6	12.5	11.2	
Weekly	20.1		19.3	17.9	20.1	
Daily	13.4		12.3	16.1	12.9	
		Too many cells (36%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Verify performance of hearing aids using real-ear measures*						
Never	30.4	(n < 25)	27.4	26.8	32.8	(n < 25)
Less than monthly	7.9		7.0	12.5	7.8	
Monthly	7.4		8.4	7.1	7.3	
Weekly	24.0		23.0	14.3	24.7	
Daily	30.2		34.2	39.3	27.4	
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				

Note. * Of the audiologists who fit and dispense hearing aids daily, weekly, monthly, or less than monthly, 78% verify performance of hearing aids using real-ear measures.

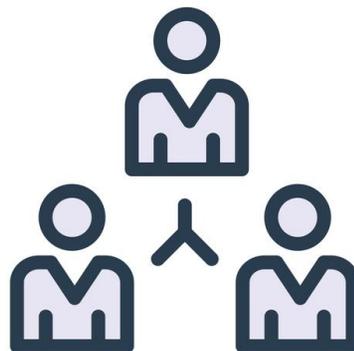
19. How do you charge for products and services? <i>Select all that apply.</i> (Percentages)						
Analyses limited to respondents who met the following criteria:						
❖ CCC-A						
❖ Clinical service provider						
Charge	Facility type					
	All facility types (n = 1,333)	College/ university (n ≥ 19)	Hospital (n = 398)	Franchise/ retail chain (n ≥ 58)	Nonres. health care (n ≥ 836)	Industry (n = 4)
Bundle all charges.	59.4	(n < 25)	39.9	79.3	67.5	(n < 25)
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Charge separately for professional services and devices.	32.7	(n < 25)	30.4	25.4	34.2	(n < 25)
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Charge for professional services when device was purchased elsewhere.	39.4	(n < 25)	27.9	35.6	45.3	(n < 25)
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Not applicable.	14.9	(n < 25)	30.4	5.2	8.2	(n < 25)
		Too many cells (30%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				

20. Do you work with a third-party administrator (e.g., HearUSA, TruHearing) for hearing aid dispensing and related services?

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider

Payment Source	Facility type					
	All facility types (n = 1,318)	College/ university (n = 20)	Hospital (n = 391)	Franchise/ retail chain (n = 59)	Nonres. health care (n = 830)	Industry (n = 4)
Yes	32.7	(n < 25)	14.1	67.8	39.8	(n < 25)
No	57.7		67.8	28.8	54.3	
Not applicable	9.6		18.2	3.4	5.9	
		Too many cells (27%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				



Programs and Resources

21. Please indicate...

a) how **helpful** each of the following ASHA areas is to you in your professional role and
 b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:
 ❖ CCC-A

ASHA’s audiology e-newsletter														
	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	10.1	11.6	23.4	17.7	3.9	33.4	1,599	3.7	5.3	20.1	21.0	7.7	42.2	1,485
College/university	8.1	11.4	22.9	30.6	4.4	22.5	271	2.7	3.9	18.8	32.5	10.6	31.4	255
Hospital	9.5	9.9	22.3	15.8	4.6	38.0	476	2.7	6.1	17.3	19.3	7.5	47.0	440
Franchise/retail chain	5.1	10.1	29.1	7.6	3.8	44.3	79	1.3	5.3	22.4	9.2	6.6	55.3	76
Nonresidential health care	10.8	12.7	22.6	18.9	2.9	32.2	687	5.1	5.3	20.7	21.0	7.0	41.0	647
Industry	12.4	7.6	24.8	9.5	1.9	43.8	105	1.0	5.1	23.5	12.2	4.1	54.1	98
	Statistical significance: $\chi^2(20) = 64.3$, $p = .000$, Cramer’s V = .100 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 58.7$, $p = .000$, Cramer’s V = .098 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

ASHA’s Audiology Online Conference

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	10.1	7.7	14.9	12.1	7.0	48.2	1,607	3.1	3.4	12.2	14.3	9.6	57.4	1,494
College/university	8.6	7.4	16.4	20.4	5.9	41.3	269	1.2	2.0	14.1	21.2	12.2	49.4	255
Hospital	7.8	6.5	12.8	15.6	9.5	47.8	475	1.3	3.4	11.4	16.3	11.2	56.4	447
Franchise/retail chain	10.1	7.6	15.2	10.1	6.3	50.6	79	0.0	2.7	13.3	13.3	6.7	64.0	75
Nonresidential health care	10.5	8.7	15.2	10.1	6.2	49.4	693	4.6	3.6	11.4	13.0	8.2	59.2	647
Industry	15.2	5.7	16.2	5.7	5.7	51.4	105	5.1	5.1	13.3	9.2	7.1	60.2	98
	Statistical significance: $\chi^2(20) = 41.6$, $p = .003$, Cramer’s V = .080 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 41.5$, $p = .003$, Cramer’s V = .083 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

ASHA’s Practice Portal

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	9.3	7.1	15.8	12.1	6.0	49.7	1,590	3.3	3.3	12.9	14.4	7.9	58.2	1,485
College/university	7.1	7.5	16.0	23.1	14.6	31.7	268	2.0	1.6	14.8	28.5	15.6	37.5	256
Hospital	7.9	4.5	14.5	10.9	6.2	56.1	469	1.6	2.7	11.8	11.4	8.0	64.5	439
Franchise/retail chain	12.5	5.0	16.3	11.3	2.5	52.5	80	0.0	2.7	13.3	12.0	5.3	66.7	75
Nonresidential health care	9.9	8.3	16.7	11.3	4.8	49.0	688	4.8	3.7	12.7	14.1	6.8	57.9	646
Industry	13.5	8.7	7.7	6.7	1.0	62.5	104	3.1	5.1	10.2	8.2	3.1	70.4	98
	Statistical significance: $\chi^2(20) = 107.5$, $p = .000$, Cramer’s V = .129 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 104.7$, $p = .000$, Cramer’s V = .131 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Audiology Connections (ASHA’s annual magazine)

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	11.2	12.0	23.8	18.5	5.5	29.0	1,604	4.5	6.5	20.1	20.7	9.8	38.4	1,490
College/university	10.3	12.5	26.2	26.6	5.5	18.8	271	3.1	5.5	19.2	34.5	10.6	27.1	255
Hospital	9.7	12.7	21.6	17.5	5.1	33.4	473	2.7	6.3	19.4	19.6	8.6	43.3	443
Franchise/retail chain	13.9	3.8	24.1	12.7	6.3	39.2	79	2.6	3.9	19.7	15.8	7.9	50.0	76
Nonresidential health care	11.5	13.0	24.0	19.0	4.9	27.6	693	6.3	6.9	20.0	19.6	10.2	37.0	649
Industry	10.5	10.5	23.8	13.3	7.6	34.3	105	2.0	6.1	24.5	17.3	4.1	45.9	98
	Statistical significance: $\chi^2(20) = 39.4$, $p = .006$, Cramer’s V = .078 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 57.4$, $p = .000$, Cramer’s V = .097 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Audiology Information Series patient handouts

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	8.8	6.1	14.8	13.8	8.9	47.6	1,603	3.4	2.9	11.4	15.2	11.1	56.0	1,482
College/university	8.5	7.4	14.8	22.2	10.4	36.7	270	1.2	2.0	10.6	26.0	14.2	46.1	254
Hospital	5.9	5.9	12.2	13.7	10.9	51.4	475	1.6	3.4	11.3	16.0	10.6	57.1	443
Franchise/retail chain	9.0	7.7	11.5	14.1	1.3	56.4	78	0.0	1.4	9.5	10.8	9.5	68.9	74
Nonresidential health care	9.5	6.5	15.6	13.9	8.5	46.0	692	5.3	3.0	11.0	14.6	11.5	54.7	644
Industry	14.4	4.8	10.6	7.7	1.9	60.6	104	1.0	2.1	10.4	9.4	3.1	74.0	96
	Statistical significance: $\chi^2(20) = 55.8$, $p = .000$, Cramer’s V = .093 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 63.2$, $p = .000$, Cramer’s V = .102 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Professional consultation with ASHA staff audiologists

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	10.1	4.9	9.3	6.0	2.8	66.9	1,602	3.6	2.4	7.0	7.4	5.2	74.5	1,492
College/university	11.9	5.6	8.1	6.3	4.4	63.7	270	1.6	1.6	5.9	8.3	7.1	75.6	254
Hospital	9.7	4.9	6.8	7.4	3.6	67.7	474	2.5	2.5	6.5	6.8	5.2	76.6	444
Franchise/retail chain	13.9	3.8	12.7	6.3	0.0	63.3	79	0.0	5.3	11.8	7.9	2.6	72.4	76
Nonresidential health care	9.4	4.9	9.3	5.7	2.3	68.4	690	5.3	2.2	6.2	7.1	4.6	74.7	647
Industry	13.5	5.8	7.7	1.9	1.0	70.2	104	2.0	2.0	9.2	3.1	3.1	80.6	98
							Statistical significance: $\chi^2(20) = 20.8, p = .406$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.	Too many cells (20%) have expected counts less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by type of facility.						

(Question 21 continues on next page.)

21. (cont'd.) Please indicate...

- a) how **helpful** each of the following ASHA areas is to you in your professional role and
- b) how you would **rate** the job that ASHA does in each of these areas. (See shaded boxes below.)

Please circle one response under the “Helpfulness to You” column **and** one response under the “Rating ASHA’s Performance” column for each program area. (Percentages)

Helpfulness Scale: 1 = “Not at all helpful”
 5 = “Very helpful”
 DK = “Don’t know”

Performance Scale: 1 = “Poor”
 5 = “Excellent”
 DK = “Don’t know”

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Professional consultation with ASHA coding and reimbursement staff

	Helpfulness to you							Rating ASHA’s performance						
	1	2	3	4	5	DK	<i>n</i>	1	2	3	4	5	DK	<i>n</i>
All facility types	9.4	4.5	10.0	9.4	4.9	61.8	1,601	3.9	2.4	7.5	10.0	7.1	69.2	1,488
College/university	10.0	6.3	8.5	10.0	5.9	59.3	270	2.0	2.0	6.3	12.5	7.8	69.5	256
Hospital	7.4	4.2	7.2	9.9	4.7	66.6	473	2.3	2.5	6.3	8.3	6.5	74.1	444
Franchise/retail chain	12.5	1.3	17.5	3.8	2.5	62.5	80	0.0	1.3	12.0	6.7	5.3	74.7	75
Nonresidential health care	9.8	4.8	10.0	9.5	5.2	60.7	692	5.6	2.6	7.3	10.1	7.3	67.1	645
Industry	17.3	2.9	6.7	1.9	1.0	70.2	104	3.1	1.0	7.1	6.1	2.0	80.6	98
	Statistical significance: $\chi^2(20) = 40.7$, $p = .004$, Cramer’s V = .079 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.							Statistical significance: $\chi^2(20) = 31.6$, $p = .048$, Cramer’s V = .072 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

22. How familiar are you with the concept of alternative payment models in health care delivery and payment?
 Analyses limited to respondents who met the following criterion:

❖ CCC-A

Familiarity	Facility type					
	All facility types (n = 1,621)	College/ university (n = 142)	Hospital (n = 445)	Franchise/ retail chain (n = 66)	Nonres. health care (n = 865)	Industry (n = 76)
Have never heard of it.	39.5	30.3	43.6	42.4	39.1	40.8
Have only <i>heard</i> of it.	27.0	31.0	31.9	25.8	23.9	28.9
Know a little about it.	29.7	32.4	21.3	24.2	33.6	27.6
Know a lot about it.	3.8	6.3	3.1	7.6	3.4	2.6
		Statistical significance: $\chi^2(12) = 35.5$, $p = .000$, Cramer's V = .086 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.				

Electronic Medical Records

23. For what purpose do you use electronic medical records (EMR) in your primary place of employment? <i>Select all that apply.</i> (Percentages) Analyses limited to respondents who met the following criteria: ❖ CCC-A ❖ Clinical service provider						
Purpose	Facility type					
	All facility types (n = 1,333)	College/ university (n ≥ 19)	Hospital (n ≥ 397)	Franchise/ retail chain (n ≥ 58)	Nonres. health care (n ≥ 836)	Industry (n ≥ 4)
Billing	73.5	(n < 25)	75.4	55.2	74.6	(n < 25)
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Clinical documentation	80.5	(n < 25)	90.5	63.8	77.1	(n < 25)
		Too many cells (30%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Scheduling	78.6	(n < 25)	76.6	67.8	80.6	(n < 25)
		Too many cells (30%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Do not use EMR (SKIP to Q. 25.)	10.1	(n < 25)	4.5	22.4	11.6	(n < 25)
		Too many cells (30%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				

<p>24. Which EMR system do you use in your current place of employment? <i>Select all that apply.</i> (Percentages) Analyses limited to respondents who met the following criteria:</p> <ul style="list-style-type: none"> ❖ CCC-A ❖ Clinical service provider ❖ Did not select <i>Do not use EMR</i> in answering Q. 23 						
System	Facility type					
	All facility types (n = 1,199)	College/ university (n = 33)	Hospital (n = 422)	Franchise/ retail chain (n = 55)	Nonres. health care (n = 601)	Industry (n = 3)
CounselEAR	4.6	6.1	0.5	3.6	6.2	(n < 25)
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
EPIC	27.5	39.4	53.3	7.3	17.1	(n < 25)
		Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
HearForm	7.4	12.1	2.4	3.6	10.0	(n < 25)
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Sycle	14.1	12.1	1.7	41.8	17.6	(n < 25)
		Too many cells (30%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
TIMS	3.6	9.1	2.1	3.6	4.0	(n < 25)
		Too many cells (40%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
(Question 24 continues on next page.)						

24. (cont'd.) Which EMR system do you use in your current place of employment? *Select all that apply.*

(Percentages)

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Clinical service provider
- ❖ Did not select *Do not use EMR* in answering Q. 23

System	Facility type					
	All facility types (n = 1,199)	College/ university (n = 33)	Hospital (n = 422)	Franchise/ retail chain (n = 55)	Nonres. health care (n = 601)	Industry (n = 3)
Other (Specify:)*	50.5	39.4	46.0	45.5	53.1	(n < 25)
	Too many cells (20%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.					

Note. *The top three *other* responses were CPRS (Computerized Patient Record System; n = 74), eClinicalWorks (n = 73), and Blueprint Solutions (n = 55). Contact audiology@asha.org for additional information about *other* responses that were specified by respondents.

Demographics

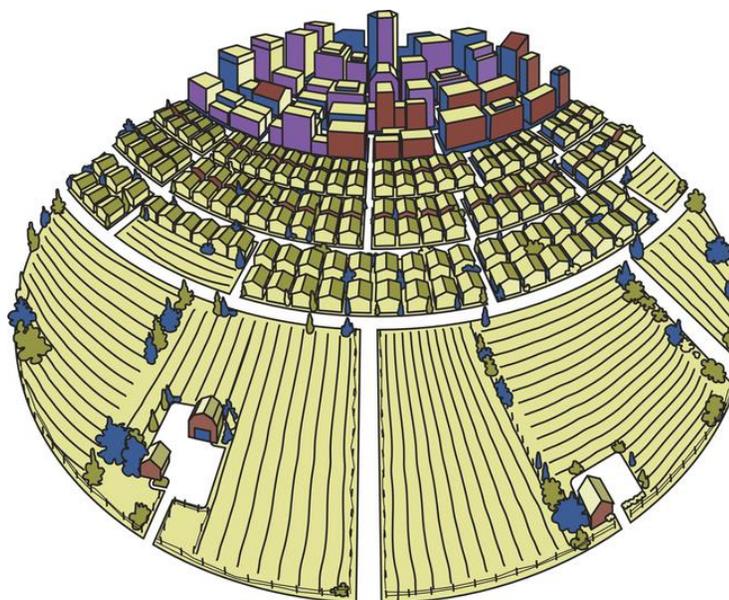
25. How many audiology assistants do you currently supervise? <i>Full-time equivalent (FTE) Enter "0" if none.</i> Analyses limited to respondents who met the following criteria: ❖ CCC-A ❖ Clinical service provider						
Support Personnel	Facility type					
	All facility types	College/ university	Hospital	Franchise/ retail chain	Nonres. health care	Industry
Includes "0"						
	<i>n</i> = 1,320	<i>n</i> = 20	<i>n</i> = 391	<i>n</i> = 59	<i>n</i> = 831	<i>n</i> = 4
25th percentile	0.0	<i>(n</i> < 25)	0.0	0.0	0.0	<i>(n</i> < 25)
50th percentile (Median)	0.0		0.0	0.0	0.0	
75th percentile	0.0		1.0	0.0	0.0	
Mean	0.3		0.5	0.4	0.3	
Standard deviation	0.9		1.0	1.0	0.8	
Mode	0.0		0.0	0.0	0.0	
Statistical significance: $F(4, 1299) = 3.8, p = .005$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.						
Excludes "0"						
	<i>n</i> = 287	<i>n</i> = 2	<i>n</i> = 105	<i>n</i> = 13	<i>n</i> = 162	<i>n</i> = 1
25th percentile	1.0	<i>(n</i> < 25)	1.0	<i>(n</i> < 25)	1.0	<i>(n</i> < 25)
50th percentile (Median)	1.0		1.0		1.0	
75th percentile	2.0		2.0		1.3	
Mean	1.6		1.8		1.4	
Standard deviation	1.2		1.3		1.1	
Mode	1.0		1.0		1.0	
Statistical significance: $F(4, 278) = 1.5, p = .212$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.						

26. Which one of the following best describes where you work? (Percentages)

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Response	Facility type					
	All facility types (n = 1,633)	College/ university (n = 142)	Hospital (n = 448)	Franchise/ retail chain (n = 69)	Nonres. health care (n = 869)	Industry (n = 74)
City/urban area	50.8	54.9	67.9	44.9	40.7	52.7
Suburban area	37.7	31.0	24.8	44.9	45.5	40.5
Rural area	11.5	14.1	7.4	10.1	13.8	6.8
Not employed (SKIP to Q. 32.)	Removed from analyses					
	Statistical significance: $\chi^2(8) = 93.4$, $p = .000$, Cramer's V = .171 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.					



27. In what state is your primary employment facility located? Use standard post office two-letter code (e.g., ME for Maine).

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time

State	<i>n</i>	State	<i>n</i>	State	<i>n</i>
Alabama	26	Kentucky	14	North Dakota	4
Alaska	2	Louisiana	27	Ohio	94
Arizona	32	Maine	5	Oklahoma	17
Arkansas	12	Maryland	41	Oregon	24
California	84	Massachusetts	58	Pennsylvania	57
Colorado	38	Michigan	64	Rhode Island	7
Connecticut	31	Minnesota	45	South Carolina	10
Delaware	6	Mississippi	14	South Dakota	9
District of Columbia	9	Missouri	42	Tennessee	55
Florida	65	Montana	1	Texas	103
Georgia	37	Nebraska	22	Utah	16
Hawaii	6	Nevada	4	Vermont	5
Idaho	8	New Hampshire	5	Virginia	36
Illinois	92	New Jersey	57	Washington	39
Indiana	45	New Mexico	7	West Virginia	13
Iowa	14	New York	130	Wisconsin	43
Kansas	21	North Carolina	45	Wyoming	0
				Total	1,641

(Question 27 continues on next page.)

27. (cont'd.) In what state is your primary employment FACILITY located? Use standard post office two-letter code (e.g., ME for Maine).

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Employed full time or part time

Response	Facility type					
	All facility types (n = 1,641)	College/ university (n ≥ 142)	Hospital (n = 448)	Franchise/ retail chain (n ≥ 67)	Nonres. health care (n ≥ 874)	Industry (n ≥ 75)
Northeast	21.6	19.0	22.1	16.2	22.1	22.4
Middle Atlantic	14.9	12.5	13.8	10.4	15.6	17.3
New England	6.8	6.3	8.3	4.5	6.5	4.0
Midwest	30.2	28.9	33.0	26.5	29.1	35.5
East North Central	20.6	18.1	22.8	19.4	19.8	22.7
West North Central	9.6	11.1	10.3	7.5	9.3	13.3
South	32.2	30.3	29.2	36.8	34.9	14.5
East South Central	6.6	11.8	7.1	7.5	6.3	0.0
South Atlantic	16.0	14.6	16.3	17.9	16.0	6.7
West South Central	9.7	4.2	5.8	11.9	12.6	8.0
West	15.9	21.8	15.6	20.6	13.9	27.6
Mountain	6.5	10.4	4.2	6.0	6.6	12.0
Pacific	9.4	11.1	11.4	14.9	7.3	16.0
		Statistical significance: FOR 4 REGIONS: $\chi^2(12) = 28.0$, p = .006 , Cramer's V = .076 FOR 9 DIVISIONS: $\chi^2(32) = 66.3$, p = .000 , Cramer's V = .102				

28. In what year do you think you are most likely to retire from the profession?

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Year	Facility type					
	All facility types (n = 1,642)	College/ university (n = 138)	Hospital (n = 426)	Franchise/ retail chain (n = 66)	Nonres. health care (n = 825)	Industry (n = 74)
25th percentile	2024	2025	2025	2023	2025	2023
50th percentile (Median)	2033	2035	2035	2032	2033	2030
75th percentile	2043	2043	2044	2040	2043	2039
Mean	2034	2035	2036	2034	2035	2033
Standard deviation	11	11	11	11	11	11
Mode	2038	2038	2038	2040	2050	2030
		Statistical significance: $F(4, 1525) = 1.3, p = .267$ Conclusion: There is not enough evidence from the data to say that the responses vary by facility type.				



29. How long have you been practicing as an audiologist? Round to the nearest full year. Enter "0" if you have never been employed in the professions.

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Response greater than "0"

Years	Facility type					
	All facility types (n = 1,747)	College/ university (n = 139)	Hospital (n = 451)	Franchise/ retail chain (n = 69)	Nonres. health care (n = 876)	Industry (n = 77)
25th percentile	10	13	8	16	10	13
50th percentile (Median)	20	20	18	22	20	22
75th percentile	31	32	30	30	31	32
Mean	21	22	19	23	21	22
Standard deviation	12	12	12	12	12	12
Mode	20	10	30	20	20	20
Statistical significance: $F(4, 1606) = 3.3, p = .011$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.						

30. In what year were you born? (Note: Data were converted to AGE of respondent at time of survey return.)
Analyses limited to respondents who met the following criterion:

❖ CCC-A

Age	Facility type					
	All facility types (n = 1,744)	College/ university (n = 143)	Hospital (n = 452)	Franchise/ retail chain (n = 68)	Nonres. health care (n = 872)	Industry (n = 77)
25th percentile	38	39	36	42	38	41
50th percentile (Median)	47	48	46	50	47	49
75th percentile	59	59	56	60	58	59
Mean	48	49	46	50	48	50
Standard deviation	12	12	12	12	12	11
Mode	56	42	56	43	39	63
Statistical significance: $F(4, 1606) = 2.9, p = .020$ <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by facility type.						



31. Identify the degrees you have earned. *Count only actual degrees—not equivalencies or certificates—and do not include degrees expected but not yet conferred. Select all that apply.* (Percentages)

Analyses limited to respondents who met the following criterion:

❖ CCC-A

Degree	Facility type					
	All facility types (n = 1,756)	College/ university (n = 144)	Hospital (n = 452)	Franchise/ retail chain (n ≥ 68)	Nonres. health care (n ≥ 877)	Industry (n = 77)
Highest degree						
Master's	24.8	4.9	23.0	39.1	27.6	26.0
AuD (only doctorate)	65.6	50.7	68.4	58.0	68.5	66.2
PhD (only doctorate)	7.7	34.7	6.2	1.4	3.2	6.5
Other doctorate, specify:	0.4	1.4	0.7	1.4	0.1	0.0
Multiple doctorates	1.5	8.3	1.8	0.0	0.6	1.3
		Too many cells (36%) have an expected count of less than 5. <u>Conclusion:</u> Too little data are available in some facility categories to test whether responses vary by facility type.				
Highest degree: Combined doctoral degrees						
Master's	24.8	4.9	23.0	39.7	27.6	26.0
Doctorate	75.2	95.1	77.0	60.3	72.4	74.0
		Statistical significance: $\chi^2(4) = 43.3$, $p = .000$, Cramer's V = .164 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.				

32. How much unpaid student debt do you have for your education? Enter "0" if none.

Analyses limited to respondents who met the following criteria:

- ❖ CCC-A
- ❖ Student debt of at least \$1

Debt	Facility type					
	All facility types (n = 385)	College/ university (n = 32)	Hospital (n = 116)	Franchise/ retail chain (n = 11)	Nonres. health care (n = 191)	Industry (n = 15)
25th percentile	\$25,000	\$20,000	\$24,677	(n < 25)	\$30,000	(n < 25)
50th percentile (Median)	\$60,000	\$53,737	\$51,648		\$65,000	
75th percentile	\$100,000	\$80,000	\$102,049		\$107,274	
Mean	\$73,298	\$65,674	\$71,478		\$79,402	
Standard deviation	\$63,062	\$54,983	\$60,622		\$68,436	
Mode	\$80,000	\$80,000	\$80,000		\$30,000	
Statistical significance: $F(4, 360) = 1.0, p = .424$ <u>Conclusion:</u> There is not enough evidence from the data to say that the responses vary by facility type.						

33. Are you ... (Percentages)

Analyses limited to respondents who met the following criterion:

- ❖ CCC-A

Response	Facility type					
	All facility types (n = 1,756)	College/ university (n = 143)	Hospital (n = 453)	Franchise/ retail chain (n = 69)	Nonres. health care (n = 878)	Industry (n = 77)
Female	84.0	73.4	84.5	76.8	85.4	87.0
Male	16.0	26.6	15.5	23.2	14.6	13.0
Statistical significance: $\chi^2(4) = 16.3, p = .003$, Cramer's V = .100 <u>Conclusion:</u> There is adequate evidence from the data to say that the responses vary by type of facility.						

Appendix

Statistics used in the summary report include the following notation and description:

Notation	Description
Response rate	<p>The percentage of individuals who were included in the sample, minus any who were ineligible:</p> $RR = \frac{(C + P)}{S - (Ret + I)}$ <p>Where</p> <ul style="list-style-type: none"> RR = Response rate C = Number of completed surveys P = Number of partial surveys S = Sample size Ret = Ineligible because of retirement I = Ineligible for other reasons (e.g., does not work in schools, no longer in the discipline, on leave of absence) $RR = \frac{1,756}{4,500 - (9 + 71)} = 39.7\%$
<i>n</i>	The number in the sample. In this report, <i>n</i> refers to the number of people who answered a particular question.
Mean	<p>A measure of central tendency; an average. Add the total of all the values and divide by the number of items.</p> <p>Example: $(1 + 1 + 7 + 34 + 88) / 5 = 26.2$</p>
Standard deviation	<p>A statistic that shows the spread of scores in a distribution. Used with means. The larger the standard deviation, the more widely the scores are spread out around the mean.¹</p> <p>About 68% of the measurement is between 1 standard deviation greater than and 1 standard deviation smaller than the mean; 95% is plus/minus 2 standard deviations.</p> <p>Example: $(1 + 1 + 7 + 34 + 88)$ Standard deviation = 37.1</p> <p>Therefore, 68% of the responses are between -10.9 and 63.3</p>
Median	<p>A measure of central tendency. Arrange the values in order, from lowest to highest. Select the value in the middle position.</p> <p>Example: 1, 1, 7, 34, 88 Median = 7</p>
(Table continues on next page.)	

Notation	Description
Mode	A measure of central tendency. The value that occurs more frequently than any other value. Example: 1, 1, 7, 34, 88 Mode = 1
Statistical significance	Describes whether a value is larger or smaller than would be expected by chance alone. <i>Note:</i> A large sample size can lead to results that are “statistically significant” even though the results themselves may not have substantive or practical significance. This is particularly true for chi-square (χ^2) tests. ¹
Chi-square (χ^2)	A test used to assess the statistical significance of a finding in which the variables being assessed are nominal (e.g., <i>male</i> and <i>female</i>) or ordinal (e.g., <i>Excellent</i> , <i>Good</i> , <i>Fair</i> , and <i>Poor</i>). It measures whether there are statistically significant differences between the observed frequencies and the expected frequencies of two variables. The larger the observed frequency is in comparison with the expected frequency, the larger the χ^2 statistic and the more likely that the difference is statistically significant. When the sample size is large, large χ^2 values (that are statistically significant) can be obtained even for weak associations. ¹
Cramer’s V	A measure of the <u>strength</u> of the association, used with χ^2 statistics to identify the meaningfulness of a relationship. The χ^2 value may be large with a probability of having occurred by chance that is small ($p < .05$). That is, it is “statistically significant at the .05 level.” Cramer’s V allows for comparison across cells of different sizes and across tables with different numbers of cells. The larger the Cramer’s V, the stronger the association.
ANOVA (<i>F</i>)	<i>F</i> is the statistic computed when conducting an analysis of variance (ANOVA). ANOVA measures the differences between means on two or more variables. It is used when there are categorical independent variables and a continuous dependent variable. ¹
<i>p</i>	Probability. Found in expressions such as $p = .003$, meaning “The probability that this result could have been produced by chance is 1 in 3/1000ths.” The smaller the number, the less likely that the result was due to chance. The <i>p</i> value is the actual probability associated with an obtained statistical result, such as χ^2 or <i>F</i> . ¹
<i>df</i>	Degrees of freedom. Refers to the number of values that are free to vary when computing a statistic. Used in interpreting both a χ^2 and an <i>F</i> ratio. It is calculated in a cross-tabulation as $(R - 1) (C - 1)$ or (the number of rows minus 1) \times (the number of columns minus 1). In a 3×4 table, <i>df</i> would be 6.

¹ Vogt, W. P. (1993). *Dictionary of statistics and methodology*. Newbury Park, CA: Sage.