

SLP Workforce and Work Conditions

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Executive Summary

In Spring 2020, the American Speech-Language-Hearing Association (ASHA) conducted a survey of speech-language pathologists (SLPs) and educational audiologists in school settings. The survey was designed to provide information about school-based service delivery and to update and expand information gathered during previous *Schools Surveys*.

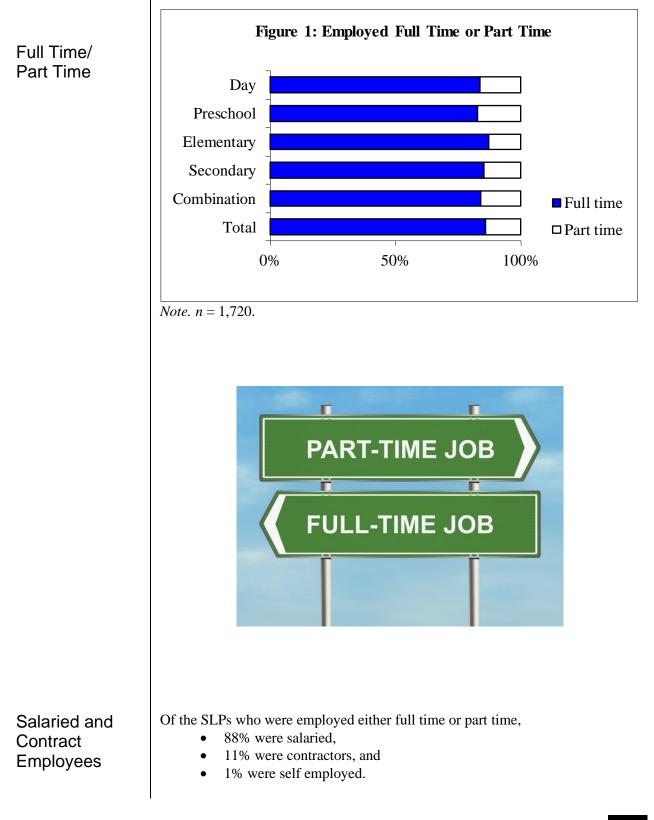
The results are presented in a series of reports. This workforce and work conditions report is based on responses from SLPs in special day/residential schools, preschools, elementary schools, secondary schools, and combined school settings.

Overall Findings

- ♦ 86% worked full time.
- ♦ 88% were salaried.
- ♦ 61% said ASHA was doing an *excellent* or *good* job in serving its school-based members overall.
- *Following a school schedule* was the highest ranked of eight opportunities, overall, but this varied by type of facility.
- Large amount of paperwork was the highest ranked of 19 challenges in every type of facility.
- Area of the country, population size, years of experience in the schools, and years of experience in the profession affected responses to 17 of the challenges.
- 63% identified lack of time to ensure the delivery of quality services to my students as an ethical challenge during the last 3 years.
- Among the SLPs who had referred to, or relied on, the ASHA Code of Ethics in the past 12 months, the median number of times was 2 and the mean was 3.

Employment

Of the SLPs in the survey who were employed, 86% reported that they worked full time. The type of facility where they were employed had no effect on whether they worked full- or part time (p = .413; see Figure 1).



ASHA's Performance

When asked what kind of job the Association was doing, overall, in serving its school-based members, 11% of the SLPs said *excellent*, 50% said *good*, 24% said *fair*, 6% said *poor*, and 9% had no opinion (see Table 1).

Table 1: How Well ASHA Serves School-Based Members							
Response	Excellent	Good	Fair	Poor	Don't Know, NA		
Overall needs	11%	50%	24%	6%	9%		
Advocacy	10%	38%	27%	11%	14%		
Answering school- based practice questions	17%	51%	18%	3%	11%		
Continuing education	27%	49%	16%	3%	6%		
Resources	22%	50%	19%	2%	6%		

Note. $n \ge 1,736$.

Type of school, area of the country, population size, years of experience in the schools, and years of experience in the profession had an effect on the responses of SLPs to how well ASHA was serving school-based members, with geographic area and experience having an effect on responses to every item on the list (see Table 2).

Table 2: How Well ASHA Serves School-Based Members, by Five Predictors									
Response	School Type	Geographic Area	Population Size	Years: Schools	Years: Profession				
Overall needs		**		**	*				
Advocacy	*	***		***	***				
Answering school- based practice questions		*		**	**				
Continuing education		*	**	*	*				
Resources		*	*	***	*				

Note. *p < .05. **p < .01. ***p = .000.

Opportunities

Clinical service providers were asked to select which of eight potential opportunities applied to them as school-based SLPs. The highest ranked opportunity varied by the type of facility where they were employed and included *following a school schedule, developing a range of speech-language skills, working with children and families, collaborating with teachers and specialized instructional support personnel (SISP), and impacting students with complex communication needs (see Table 3 and Appendix Table B1).*

Table 3: Rank Order of Opportunities as a School-Based SLP, by Facility Type								
Opportunity	Total (<i>n</i> = 1,497)	$\mathbf{Day}_{(n \ge 50)}$	Pre- school (<i>n</i> ≥ 168)	Elemen- tary $(n \ge 930)$	Secon- dary (<i>n</i> ≥ 208)	Combination $(n \ge 110)$		
Follow a school schedule**	1	3	4	2	1	5		
Develop a range of speech-language skills***	2	5	2	1	4	4		
Work with children and families***	3	4	1	3	5	1		
Collaborate with teachers and specialized instructional support personnel (SISP)	4	1	5	4	2	2		
Impact students with complex communication needs**	5	1	3	5	3	3		
Address academic skills (e.g., literacy)***	6	8	8	6	6	6		
Use flexible service delivery options**	7	6	6	7	8	7		
Receive adequate salary and benefits ^{***}	8	7	7	8	7	8		

Note. SLP = speech-language pathologist. *p < .05. **p < .01. ***p = .000.

Predictor Variables

The type of school where SLPs were employed was related to seven of the opportunities (see Appendix Table B1), and geographic area was related to four of them (see Appendix Table B2).

Population density was related to two areas of opportunity: *impact students with complex communication needs* (p = .020) and *receive adequate salary and benefits* (p = .010; not shown in any table).

Years of experience in the schools was related to four opportunities, and years of experience in the profession was related to five of them (not shown in any table).

Challenges

Clinical service providers selected the challenges that they faced from a list of 19 challenges. *Large amount of paperwork* ranked as the greatest challenge in every type of facility. The type of facility was related to responses for seven of the challenges (see Table 4 and Appendix Table C1).

Table 4: Rank Order of Challenges as a School-Based SLP, by Facility Type								
Response	Total (<i>n</i> = 1,497)	\mathbf{Day} $(n \ge 50)$	Pre- school (<i>n</i> ≥ 168)	Elemen- tary $(n \ge 930)$	Secon- dary (n ≥ 208)	Combination $(n \ge 110)$		
Large amount of paperwork	1	1	1	1	1	1		
High workload/caseload size**	2	5	2	2	3	2		
Volume of meetings***	3	9	9	3	2	5		
Limited time for collaboration	4	2	5	4	5	3		
Limited family/caregiver involvement and support	5	3	6	5	7	4		
Limited understanding of my role by others ^{**}	6	10	11	6	4	8		
Incorporating optimal service delivery models	7	5	4	7	6	10		
Medicaid billing***	8	13	14	8	8	13		
Out-of-pocket professional expenses	9	10	7	9	9	6		
Budget constraints	10	7	7	10	9	10		
Lack of funding to attend professional development programs	11	7	10	12	9	13		
Low salary	12	10	12	10	13	9		
Inadequate work space and facilities****	13	4	3	13	12	6		
Personnel shortage	14	14	15	14	16	12		
Limited support from the administration	15	16	13	16	13	15		
Lack of training to work with specific disorders or special populations	16	17	16	15	15	17		
Legal challenges (e.g., due process)	17	17	18	17	17	19		
Ethical challenges [*]	18	14	19	18	18	18		
Travel/distance between schools*	19	17	17	19	19	16		

Note. SLP = speech-language pathologist. *p < .05. **p < .01. ***p = .000.

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Area of the country, population size, years of experience in the schools, and years of experience in the profession affected responses to 17 of the challenges (see Table 5 and Appendix Tables C2, C3, C4, and C5).

Table 5: Challenges Facing School-Based SLPs, by Four Predictors									
Response	Geographic Area	Population Size	Years: Schools	Years: Profession					
Budget constraints		*							
Ethical challenges	*		*						
High workload/caseload size	***								
Inadequate work space and facilities	**			*					
Incorporating optimal service delivery models									
Lack of funding to attend professional development programs	*								
Lack of training to work with specific disorders or special populations			**	***					
Large amount of paperwork									
Legal challenges	***	***	**	***					
Limited family/caregiver involvement and support	*	***	**	***					
Limited support from the administration	**		*	**					
Limited time for collaboration	**								
Limited understanding of my role by others		*	***	***					
Low salary	***	*	***	***					
Medicaid billing	***	*	**	*					
Out-of-pocket professional expenses			*	**					
Personnel shortage	***	*		*					
Travel/distance between schools		***	*	*					
Volume of meetings	***			*					

Note. SLP = speech-language pathologist. *p < .05. **p < .01. ***p = .000.

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Geographic Area

Area of the country was related to 12 challenges: ethical challenges, high workload/caseload size, inadequate work space and facilities, lack of funding to attend professional development programs, legal challenges, limited family/caregiver involvement and support, limited support from the administration, limited time for collaboration, low salary, Medicaid billing, personnel shortage, and volume of meetings (see Table 5 and Appendix Table C2).



Population Size

Population size was significantly related to eight challenges: *budget constraints*, legal challenges, limited family/caregiver involvement and support, limited understanding of my role by others, low salary, Medicaid billing, personnel shortage, and travel/distance between schools (see Table 5 and Appendix Table C3).

Years of experience in the schools affected responses to 10 challenges: ethical challenges, lack of training to work with specific disorders or special Experience in populations, legal challenges, limited family/caregiver involvement and support, limited support from the administration, limited understanding of my role by others, low salary, Medicaid billing, out-of-pocket professional expenses, and travel/distance between schools (see Table 5 and Appendix Table C4).

Years of Experience in the Profession

Years of

the Schools

Years of experience in the profession affected responses to 12 challenges: inadequate work space and facilities, lack of training to work with specific disorders or special populations, legal challenges, limited family/caregiver involvement and support, limited support from the administration, limited understanding of my role by others, low salary, Medicaid billing, out-of-pocket professional expenses, personnel shortage, travel/distance between schools, and volume of meetings (see Table 5 and Appendix Table C5).

Ethics Challenges All of the SLPs were asked to identify which of five issues had presented them with significant ethical challenges during the last 3 years.

- 63% identified *lack of time to ensure the delivery of quality services to my students* as an issue.
- 29% selected *complying with administrative and regulatory mandates*.
- 13% selected *dealing with impaired practitioners in our profession*.
- 9% identified *lack of confidentiality and privacy of student files and records* as a challenge.
- 3% chose *employer pressure to alter documentation for billing and/or reimbursement.* Responses varied by type of facility, from 1% in secondary schools, to 2% in elementary schools, to 3% in preschools, to 7% in special day/residential schools and in combination of school settings (*p* = .002).

Area of the country, population size, years of experience in the schools, and years of experience in the profession affected responses to three ethical challenges (see Table 6).

Table 6: Ethical Challenges Facing School-Based SLPs, by Four Predictors								
Response	Geographic Area	Population Size	Years: Schools	Years: Profession				
Complying with								
administrative and	**	***						
regulatory mandates								
Dealing with impaired								
practitioners in our	**	*	**	**				
profession								
Employer pressure to alter								
documentation for billing								
and/or reimbursement								
Lack of confidentiality								
and privacy of student								
files and records								
Lack of time to ensure the								
delivery of quality	*		***	***				
services to my students								

Note. SLP = speech-language pathologist. *p < .05. **p < .01. ***p = .000.

Code of Ethics

Respondents were asked how many times they had referred to, or relied on, the ASHA Code of Ethics in the past 12 months. When responses of 0 were included in the analyses, the median number of times was 0 and the average (mean) was 1 (n = 1,692). When responses of 0 were excluded, the median number of times was 2 and the average (mean) was 3 (n = 757). Neither the type of facility where they were employed nor their job function had an effect on their responses (p > .05).

Survey Notes and Methodology	Since 2004, ASHA has fielded the <i>Schools Survey</i> in even-numbered years to gather information of interest to the professions. Members, volunteer leaders, and staff rely on data from the <i>Schools Survey</i> to better understand the priorities and needs of SLPs and educational audiologists.
Response Rate	The survey was fielded on February 10, 2020, to a random sample of 4,500 ASHA-certified SLPs and 500 ASHA-certified audiologists who were employed in school settings in the United States. Everyone received an electronic "be-on-the-lookout-for" message 2 days later, and a second postal mailing followed on March 11. A planned third mailing was not sent because of the COVID-19 pandemic. The sample was a random sample, stratified by state. Small groups, such as constituents in Wyoming, were oversampled. Weighting was used when presenting data to reflect the actual distribution of SLPs in each state based on ASHA's membership database. The original sample included 4,500 SLPs, with an additional survey returned by an SLP who had removed his identifying number, resulting in a total gross sample of 4,501. Of the original 4,501 SLPs, 17 were retired, 21 were employed in other types of facilities, 16 were not employed in the field, 8 had incorrect addresses, and 2 were ineligible for other reasons, leaving 4,437 possible respondents. The actual number of respondents was 1,779, resulting in a 40.1 % response rate. The results presented in this report are based on responses from those 1,779 individuals.
Reports	 Results from the 2020 Schools Survey are presented in a series of reports for SLPs: SLP Caseload and Workload Characteristics SLP Workforce and Work Conditions SLP Annual Salaries and Hourly Wages Survey Summary Report: Numbers and Types of Responses, SLPs Survey Methodology, Respondent Demographics, and Glossary, SLPs Results from the educational audiologists are presented in a separate report: Survey Summary Report: Numbers and Types of Responses, Educational Audiologists.
Suggested Citation	American Speech-Language-Hearing Association. (2020). 2020 Schools Survey report: SLP workforce and work conditions. www.asha.org/Research/memberdata/Schools-Survey/

Supplemental Resources	American Speech-Language-Hearing Association. (2002). A workload analysis approach for establishing speech-language caseload standards in the school [Position Statement]. <u>www.asha.org/policy/PS2002-00122/</u>
	American Speech-Language-Hearing Association. (n.da). Early Intervention. www.asha.org/practice-portal/professional-issues/early-intervention/
	American Speech-Language-Hearing Association. (n.db). Ethics and schools practice. <u>www.asha.org/slp/schools/prof-consult/EthicsSchoolsPractice/</u>
	American Speech-Language-Hearing Association. (n.dc). Information for school-based SLPs. <u>www.asha.org/slp/schools/</u>
	American Speech-Language-Hearing Association. (n.dd). Interprofessional education/interprofessional practice (IPE/IPP). www.asha.org/Practice/Interprofessional-Education-Practice/
	American Speech-Language-Hearing Association. (n.de). Recruiting and retaining qualified school-based SLPs. <u>www.asha.org/careers/recruitment/schools/</u>
	American Speech-Language-Hearing Association. (n.df). Speech-language pathology assistants [Professional Issues Statement]. www.asha.org/Practice-Portal/Professional-Issues/Speech-Language- Pathology-Assistants/
	American Speech-Language-Hearing Association. (2010a). <i>Roles and</i> responsibilities of speech-language pathologists in schools [Position Statement]. <u>www.asha.org/policy/PS2010-00318/</u>
	American Speech-Language-Hearing Association. (2010b). <i>Roles and</i> <i>responsibilities of speech-language pathologists in schools</i> [Professional Issues Statement]. <u>www.asha.org/policy/PI2010-00317/</u>
	American Speech-Language-Hearing Association. (2010c). Working for change: A guide for speech-language pathologists and audiologists in schools. www.asha.org/uploadedFiles/Working-Change-Schools-SLPs- Audiologists-Guide.pdf
Additional Information	If you would like to speak with a member of the ASHA School Services Team about the survey, please send a message to <u>schools@asha.org</u> or call ASHA's Action Center (800-498-2071) and ask to be connected to a School Services staff member. To learn more about how the Association is working on behalf of school-based ASHA Certified Members, visit the ASHA Schools webpages at <u>www.asha.org/slp/schools/</u> .
Thank You	ASHA would like to thank the SLPs who completed the 2020 Schools Survey. Reports like this one are possible only because people like you participate.

Appendix A

State Listings

Regions of the Country

<u>Northeast</u>

- Middle Atlantic
 - New Jersey
 - New York
 - o Pennsylvania
- New England
 - Connecticut
 - o Maine
 - Massachusetts
 - New Hampshire
 - o Rhode Island
 - o Vermont

South

- East South Central
 - o Alabama
 - Kentucky
 - Mississippi
 - Tennessee
- South Atlantic
 - Delaware
 - District of Columbia
 - o Florida
 - o Georgia
 - Maryland
 - North Carolina
 - South Carolina
 - o Virginia
 - West Virginia
- West South Central
 - o Arkansas
 - o Louisiana
 - o Oklahoma
 - o Texas

<u>Midwest</u>

- East North Central
 - o Illinois
 - o Indiana
 - o Michigan
 - o Ohio
 - Wisconsin
 - West North Central
 - o Iowa
 - o Kansas
 - o Minnesota
 - o Missouri
 - o Nebraska
 - North Dakota
 - South Dakota

$\frac{\text{West}}{\bullet}$ M

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- Mountain
 - o Arizona
 - o Colorado
 - o Idaho
 - o Montana
 - o Nevada
 - New Mexico
 - o Utah
 - Wyoming
- ♦ Pacific

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- o Alaska
- o California
- o Hawaii
- o Oregon
- Washington

Appendix B

Greatest Opportunities

Table B1: Greatest Opportunities, by Facility Type

♦ CCC-SI	vey instrument. respondents who	opportunities as a sc met the following c		elect all that apply.	(Percentages). Res	ponses were in	
			Facilit	y type			
Opportunity	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	Preschool $(n \ge 168)$	Elementary $(n \ge 930)$	Secondary (<i>n</i> = 208)	Combination (<i>n</i> = 110)	
Follow a school schedule	71.3	74.5	64.9	74.2	74.0	60.0	
	Statistical significance: $\chi^2(4) = 15.0$, $p = .005$, Cramer's $V = .101$ Conclusion: There is adequate evidence from the data to say that the responses vary by facility type.						
Develop a range of speech- language skills	70.8	66.7	67.3	75.0	61.5	61.8	
				.000 , Cramer's $V = .$ from the data to say t	123 hat the responses var	y by facility type.	
Work with children and families	69.6	70.0	74.0	70.4	57.2	78.2	
		-		.000 , Cramer's $V = .$ from the data to say t	119 hat the responses var	y by facility type.	
Collaborate with teachers and specialized instructional support personnel (SISP)	68.2	86.3	64.5	68.6	69.7	68.8	
		Statistical significan <u>Conclusion</u> : There is type.			y that the responses v	ary by facility	
					(Table B1 contin	nues on next page.)	

Table B1 (Cont'd): Greatest Opportunities, by Facility Type

Q 3. (cont'd) <u>CCC-SLP ONLY</u>			s as a school-based	SLP? Select all the	at apply. (Percentag	ges). Responses	
were in alphabetical orde	er on survey instru	ment.					
Analyses limited to	respondents who	met the following c	riterion:				
✤ CCC-SI	LP						
 Clinical 	service provider						
			Facilit	ty type			
Opportunity	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	Preschool $(n \ge 168)$	Elementary $(n \ge 930)$	Secondary (<i>n</i> = 208)	Combination (n = 110)	
Impact students with complex communication needs	61.8	86.3	66.1	59.5	63.9	63.6	
				.002 , Cramer's $V = .$ from the data to say t		y by facility type.	
Address academic skills (e.g., literacy)	44.5	31.4	26.6	46.9	52.9	48.2	
		e		.000 , Cramer's $V = .$ from the data to say t		y by facility type.	
Use flexible service delivery options	38.3	47.1	29.2	36.7	47.1	40.5	
		Statistical significance: $\chi^2(4) = 15.7$, <i>p</i> = .003 , Cramer's <i>V</i> = .103 Conclusion: There is adequate evidence from the data to say that the responses vary by facility type.					
Receive adequate salary and benefits	35.4	39.2	28.0	34.2	48.1	30.9	
		6	/• · · ·	.000 , Cramer's $V = .$ from the data to say t		y by facility type.	

Table B2: Greatest Opportunities, by Geographic Area

Q 3. <u>CCC-SLP ONLY</u> . What are	e your greate	st opportu	nities as a	school-bas	sed SLP? S	Select all th	hat apply.	(Percentag	es). Respo	nses
were in alphabetical order o	on survey ins	strument.								
Analyses limited to re	spondents w	ho met the	e following	g criterion:						
CCC-SLP										
Clinical set	rvice provid	er								
Opportunity	Total (<i>n</i> = 1,497)	New England (<i>n</i> = 101)	Middle Atlantic (<i>n</i> = 304)	East North Central (n = 247)	West North Central $(n \ge 112)$	South Atlantic $(n \ge 251)$	East South Central $(n \ge 62)$	West South Central $(n \ge 148)$	Moun- tain (<i>n</i> ≥ 101)	Pacific (<i>n</i> ≥ 168)
Follow a school schedule	71.3	67.3	74.0	75.3	69.6	63.3	68.3	77.2	72.5	71.4
Develop a range of speech- language skills	70.8	67.3	68.4	77.3	73.2	66.1	71.4	67.1	71.3	75.6
Work with children and families**	69.6	60.4	67.8	74.5	79.6	63.7	67.7	75.7	63.7	72.0
Collaborate with teachers and specialized instructional support personnel (SISP)	68.2	76.2	72.4	66.0	61.9	64.5	58.1	68.5	65.7	73.2
Impact students with complex communication needs	61.8	60.4	65.5	66.4	63.4	57.0	68.3	56.4	54.5	61.9
Address academic skills (e.g., literacy) ***	44.5	42.6	57.6	43.3	38.4	43.0	41.9	38.3	46.1	35.1
Use flexible service delivery options***	38.3	36.6	30.9	47.4	38.1	29.1	38.1	46.3	31.7	49.7
Receive adequate salary and benefits***	35.4	31.7	53.6	36.8	28.3	19.4	27.4	25.0	27.7	48.2

Note. CCC-SLP = Certificate of Clinical Competence in Speech-Language Pathology. **p < .01. ***p = .000.

Appendix C

Greatest Challenges

✤ CCC-SL		met the following c				
Challenge	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	$FacilityPreschool(n \ge 168)$	Elementary $(n \ge 930)$	Secondary $(n \ge 208)$	Combination $(n \ge 110)$
Large amount of paperwork	81.7	72.5	78.1	83.8	84.1	77.3
		Statistical significant <u>Conclusion</u> : There is type.		57 e from the data to say	that the responses va	ary by facility
High workload/caseload size	56.5	35.3	52.4	60.4	50.7	56.8
				001 Cramer's $V = .11$ rom the data to say the		y by facility type.
Volume of meetings	53.5	29.4	40.2	58.7	56.7	45.0
				000 , Cramer's $V = .10$ rom the data to say the		y by facility type.
Limited time for collaboration	49.7	45.1	42.9	52.5	45.7	48.6
		Statistical significant <u>Conclusion</u> : There is type.		94 e from the data to say	that the responses va	ary by facility
Limited family/caregiver involvement and support	42.7	41.2	41.1	43.8	38.8	47.7
		Statistical significant <u>Conclusion</u> : There is type.		41 e from the data to say	that the responses va	ary by facility

CCC-SClinical	l service provider					
• Childe			Facility	y type		
Challenge	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	$\frac{\text{Preschool}}{(n \ge 168)}$	Elementary $(n \ge 930)$	Secondary $(n \ge 208)$	Combination $(n \ge 110)$
Limited understanding of my role by others	41.4	27.5	30.2	43.6	48.1	36.4
				.001 , Cramer's $V = .1$ rom the data to say the		by facility type.
Incorporating optimal service delivery models	40.7	35.3	43.8	42.0	39.9	34.2
		Statistical significan <u>Conclusion</u> : There is type.		32 e from the data to say	that the responses va	ary by facility
Medicaid billing	37.0	24.0	24.4	41.9	37.0	27.0
				.000 , Cramer's $V = .14$ rom the data to say the		by facility type.
Out-of-pocket professional expenses	36.2	27.5	32.7	38.7	32.2	37.3
		Statistical significan	ce: $\chi^2(4) = 6.5, p = .1$	68		

 Clinica 	SLP al service provider										
		Facility type									
Challenge	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	Preschool $(n \ge 168)$	Elementary $(n \ge 930)$	Secondary $(n \ge 208)$	Combination $(n \ge 110)$					
Budget constraints	32.1	33.3	32.7	31.9	32.2	34.2					
		Statistical significance <u>Conclusion</u> : There is type.			that the responses v	ary by facility					
Lack of funding to attend professional development programs	31.2	33.3	30.4	31.6	32.2	27.0					
		Statistical significance <u>Conclusion</u> : There is type.			that the responses v	ary by facility					
Low salary	30.1	27.5	26.8	31.9	23.1	35.5					
		Statistical significanc <u>Conclusion</u> : There is			that the responses v	ary by facility					
		type.									

Q 20. (cont'd) What are your g alphabetical order on s		as a school-based p	professional? Select	all that apply. (Per	ccentages) Response	es were in
1	•	met the following c	riteria:			
Sector CCC-SI	-	e				
 Clinical 	service provider					
	•		Facilit	y type		
Challenge	Total (<i>n</i> = 1,497)	Special Day/ Residential $(n \ge 50)$	Preschool $(n \ge 168)$	Elementary $(n \ge 930)$	Secondary $(n \ge 208)$	Combination $(n \ge 110)$
Personnel shortage	24.1	21.6	23.2	25.4	19.1	28.2
		Statistical significan <u>Conclusion</u> : There is type.			y that the responses v	ary by facility
Limited support from the administration	23.7	31.4	24.9	23.0	23.1	26.4
		Statistical significan <u>Conclusion</u> : There is type.			y that the responses v	ary by facility
Lack of training to work with specific disorders or special populations	22.0	13.7	17.9	23.5	21.6	18.9
		Statistical significan <u>Conclusion</u> : There is type.			y that the responses v	ary by facility
					(Table C1 contin	nues on next page.)

♦ CCC-S	survey instrument. o respondents who	as a school-based p met the following c		all that apply. (Per	centages) Response	es were in
			Facility	y type		
Challenge	Total $(n = 1,497)$	Special Day/ Residential $(n \ge 50)$	Preschool $(n \ge 168)$	Elementary $(n \ge 930)$	Secondary $(n \ge 208)$	Combination $(n \ge 110)$
Legal challenges (e.g., due process)	12.2	13.7	7.7	12.0	17.8	11.8
		Statistical significan <u>Conclusion</u> : There is type.	/ • · · ·)55 e from the data to say	v that the responses v	ary by facility
Ethical challenges	12.0	21.6	6.0	11.9	14.4	12.6
		0	/• · ·	.022 , Cramer's $V = .0$ From the data to say the		y by facility type.
Travel/distance between schools	11.0	13.7	14.3	10.3	6.2	19.8
		-		.003 , Cramer's $V = .1$ from the data to say the data to sa		y by facility type.

Table C2: Greatest Challenges, by Geographic Area

Analyses limited to re CCC-SLP	1	no met the	e tonowing	g criteria:						
 Clinical set 	rvice provid	er								
Response	Total (<i>n</i> = 1,497)	New England (<i>n</i> ≥ 101)	Middle Atlantic (n = 304)	East North Central $(n \ge 247)$	West North Central $(n \ge 112)$	South Atlantic $(n \ge 251)$	East South Central $(n \ge 62)$	West South Central $(n \ge 148)$	Moun- tain (<i>n</i> ≥ 101)	Pacific (<i>n</i> ≥ 168)
Large amount of paperwork	81.7	78.2	77.3	83.4	80.5	84.9	93.7	83.9	83.3	78.0
High workload/caseload size***	56.5	47.5	46.4	57.9	50.4	56.6	66.7	66.2	64.4	65.5
Volume of meetings***	53.5	63.4	31.3	59.3	45.5	63.3	68.3	58.8	53.5	60.1
Limited time for collaboration**	49.7	57.8	58.6	47.0	52.2	43.8	49.2	48.0	42.2	45.8
Limited family/caregiver involvement and support*	42.7	36.6	43.4	47.8	46.4	38.6	55.6	46.6	37.3	36.3
Limited understanding of my role by others	41.4	40.6	43.1	36.4	41.6	43.8	49.2	43.6	36.3	40.5
Incorporating optimal service delivery models	40.7	52.0	39.5	41.3	37.2	34.9	38.1	41.6	46.1	43.5
Medicaid billing***	37.0	39.6	32.9	41.7	31.9	47.8	27.4	38.5	36.3	26.2
Out-of-pocket professional expenses	36.2	36.6	39.5	35.2	24.1	33.5	41.9	40.5	39.6	35.1
Budget constraints	32.1	43.6	31.3	30.4	28.3	32.7	22.6	38.5	28.7	29.8
Lack of funding to attend professional development programs [*]	31.2	41.6	29.3	27.4	32.1	33.1	23.8	39.6	25.7	29.6
Low salary ^{***}	30.1	25.5	25.7	25.5	26.5	41.4	40.3	41.6	32.4	17.9
Inadequate work space and facilities ^{**}	29.9	35.6	36.8	31.2	30.1	20.3	31.7	26.2	23.5	33.3

Table C2 (Cont'd): Greatest Challenges, by Geographic Area

Q 20. (cont'd) What are your grea alphabetical order on surv	ey instrume	nt.			onal? <i>Selec</i>	t all that a	pply. (Pero	centages) I	Responses	were in
Analyses limited to rea	spondents w	ho met the	e following	g criteria:						
CCC-SLP										
Clinical ser Response	Total (<i>n</i> = 1,497)	er New England (n ≥ 101)	Middle Atlantic (<i>n</i> = 304)	East North Central $(n \ge 247)$	West North Central $(n \ge 112)$	South Atlantic $(n \ge 251)$	East South Central $(n \ge 62)$	West South Central $(n \ge 148)$	$Moun-tain (n \ge 101)$	Pacific (<i>n</i> ≥ 168)
Personnel shortage***	24.1	27.5	11.2	26.2	22.1	26.6	25.4	37.6	25.5	27.4
Limited support from the administration ^{**}	23.7	24.8	32.2	23.9	19.5	19.1	19.4	20.8	15.8	26.2
Lack of training to work with specific disorders or special populations	22.0	28.4	23.7	19.4	21.4	24.3	20.6	14.8	23.5	22.5
Legal challenges (e.g., due process)***	12.2	11.9	9.2	6.9	6.3	13.1	9.7	14.9	13.7	25.0
Ethical challenges*	12.0	17.8	16.1	11.3	7.1	13.1	12.9	8.8	5.9	9.5
Travel/distance between schools	11.0	10.9	13.5	11.3	12.5	7.6	11.3	12.1	4.9	12.5

Note. CCC-SLP = Certificate of Clinical Competence in Speech-Language Pathology. *p < .05. **p < .01. ***p = .000.

Table C3: Greatest Challenges, by Population Size

alphabetical order on survey instrument. Analyses limited to respondents who met th CCC-SLP Clinical service provider	ne following criteria:			
Response	Total (<i>n</i> = 1,497)	City/Urban (<i>n</i> ≥ 495)	Suburban $(n \ge 687)$	Rural (<i>n</i> ≥ 299)
Large amount of paperwork	81.7	82.3	82.1	79.9
High workload/caseload size	56.5	57.1	56.0	56.7
Volume of meetings	53.5	50.0	56.3	54.2
Limited time for collaboration	49.7	47.8	52.1	48.0
Limited family/caregiver involvement and support***	42.7	48.0	34.5	52.5
Limited understanding of my role by others*	41.4	46.4	38.7	39.8
Incorporating optimal service delivery models	40.7	39.7	42.9	37.3
Medicaid billing [*]	37.0	32.1	39.3	40.8
Out-of-pocket professional expenses	36.2	37.3	36.1	34.1
Budget constraints*	32.1	33.9	28.8	36.5
Lack of funding to attend professional development programs	31.2	30.8	32.8	28.4
Low salary [*]	30.1	26.3	29.7	35.5
Inadequate work space and facilities	29.9	32.3	28.5	29.4
Personnel shortage*	24.1	23.6	22.3	30.0
Limited support from the administration	23.7	27.4	22.1	21.3

Table C3 (Cont'd): Greatest Challenges, by Population Size

Q 20. (cont'd) What are your greatest challenges as a sch in alphabetical order on survey instrument.	ool-based professio	onal? Select all that o	apply. (Percentages)	Responses were
Analyses limited to respondents who met the	following criteria:			
✤ CCC-SLP				
 Clinical service provider 				
Response	Total $(n = 1,497)$	City/Urban $(n \ge 495)$	Suburban $(n \ge 687)$	Rural $(n \ge 299)$
Lack of training to work with specific disorders or special populations	22.0	23.2	21.7	21.3
Legal challenges (e.g., due process)***	12.2	11.9	15.1	6.0
Ethical challenges	12.0	12.7	12.5	10.0
Travel/distance between schools***	11.0	11.7	7.9	16.4

Note. CCC-SLP = Certificate of Clinical Competence in Speech-Language Pathology. *p < .05. ***p = .000.

Table C4: Greatest Challenges, by Years of Experience in the Schools

Q 20. What are your greatest challenges as a	school-based	d profession	al? Select all	l that apply.	(Percentage	s) Response	s were in al	phabetical		
order on survey instrument. Analyses limited to respondents CCC-SLP Clinical service provi		following cr	iteria:							
		Years of Experience								
Response	Total (<i>n</i> = 1,497)	1-5 (<i>n</i> \ge 307)	6-10 (<i>n</i> \ge 344)	11–15 $(n \ge 241)$	16-20 (<i>n</i> = 239)	21-25 (<i>n</i> \ge 147)	26-30 (<i>n</i> \ge 96)	> 30 (<i>n</i> = 104)		
Large amount of paperwork	81.7	79.5	82.3	78.4	85.4	81.8	85.4	83.7		
High workload/caseload size	56.5	60.3	60.6	56.0	52.3	57.4	49.5	50.0		
Volume of meetings	53.5	56.0	54.7	56.4	54.4	54.7	42.7	45.2		
Limited time for collaboration	49.7	45.5	48.1	49.6	53.1	50.3	54.2	53.8		
Limited family/caregiver involvement and support**	42.7	49.5	48.5	40.2	37.7	35.4	38.5	39.0		
Limited understanding of my role by others***	41.4	59.0	44.9	39.4	34.7	32.0	22.9	30.8		
Incorporating optimal service delivery models	40.7	45.3	39.8	40.5	42.3	40.8	30.2	40.0		
Medicaid billing ^{**}	37.0	33.1	33.0	35.7	37.7	49.0	47.9	40.4		
Out-of-pocket professional expenses*	36.2	42.0	38.6	32.8	37.2	35.4	22.7	29.5		
Budget constraints	32.1	29.5	35.8	33.6	35.6	29.3	31.3	23.1		
Lack of funding to attend professional development programs	31.2	25.3	31.4	36.0	31.8	35.8	29.9	30.8		
Low salary***	30.1	47.4	36.5	24.1	20.5	27.7	15.6	12.5		
Inadequate work space and facilities	29.9	36.2	31.7	25.7	25.1	28.6	30.2	31.7		
Personnel shortage	24.1	28.6	25.3	22.8	22.6	25.2	21.6	17.3		
						(Table C4	continues on	next page.)		

Table C4 (Cont'd): Greatest Challenges, by Years of Experience in the Schools

Q 20. (cont'd) What are your greatest challed	enges as a sch	ool-based pi	rofessional?	Select all th	at apply. (P	ercentages)	Responses v	vere in
alphabetical order on survey instrument	nt.							
Analyses limited to respondents	who met the	following cr	iteria:					
✤ CCC-SLP								
Clinical service provi	der							
				Yea	rs of Experie	ence		
Response	Total $(n = 1,497)$	1-5 (<i>n</i> \ge 307)	6-10 (<i>n</i> \ge 344)	11-15 (<i>n</i> \ge 241)	16-20 (<i>n</i> = 239)	21-25 (<i>n</i> \ge 147)	26-30 (<i>n</i> \ge 96)	> 30 (<i>n</i> = 104)
Limited support from the administration*	23.7	30.9	24.3	21.2	20.9	24.3	16.5	22.1
Lack of training to work with specific disorders or special populations ^{**}	22.0	26.1	25.9	22.8	18.8	17.7	14.6	12.5
Legal challenges (e.g., due process)**	12.2	15.3	15.9	7.1	11.3	11.5	12.4	5.8
Ethical challenges [*]	12.0	15.3	13.3	12.8	8.4	15.0	5.2	6.7
Travel/distance between schools*	11.0	14.9	12.2	11.2	9.6	5.4	7.3	6.7

Note. CCC-SLP = Certificate of Clinical Competence in Speech-Language Pathology. *p < .05. **p < .01. ***p = .000.

Table C5: Greatest Challenges, by Years of Experience in the Profession

Q 20. What are your greatest challenges as a	school-based	d profession	al? <i>Select al</i>	l that apply.	(Percentage	es) Response	es were in alj	phabetical	
order on survey instrument.		fallowing	itania.						
Analyses limited to respondents CCC-SLP	who met the	following ci	iteria:						
 CCC-SEr Clinical service provi 	ider								
Response		Years of Experience							
	Total $(n = 1,497)$	1-5 (<i>n</i> \ge 219)	6-10 (<i>n</i> \ge 293)	11-15 (<i>n</i> \ge 217)	16-20 (<i>n</i> ≥ 236)	21-25 (<i>n</i> \ge 186)	26-30 (<i>n</i> = 131)	> 30 (<i>n</i> ≥ 179)	
Large amount of paperwork	81.7	77.6	83.0	81.7	86.4	82.4	80.9	78.9	
High workload/caseload size	56.5	60.5	62.8	56.0	57.6	54.0	49.6	52.5	
Volume of meetings*	53.5	59.1	52.7	51.8	55.7	59.7	48.1	45.3	
Limited time for collaboration	49.7	45.7	51.7	45.9	49.8	49.2	51.9	50.8	
Limited family/caregiver involvement and support***	42.7	50.9	51.2	39.0	39.4	33.3	42.0	38.5	
Limited understanding of my role by others***	41.4	60.7	48.1	42.4	38.6	36.0	23.7	27.8	
Incorporating optimal service delivery models	40.7	47.0	41.6	39.0	42.4	43.5	31.3	38.0	
Medicaid billing [*]	37.0	35.2	34.0	29.4	36.4	42.5	48.1	38.5	
Out-of-pocket professional expenses**	36.2	44.1	41.8	29.4	36.9	31.6	33.6	30.6	
Budget constraints	32.1	30.9	38.8	28.0	33.1	31.0	31.3	28.3	
Lack of funding to attend professional development programs	31.2	25.9	35.0	30.7	28.8	33.2	32.8	32.4	
Low salary***	30.1	51.6	40.8	24.8	23.7	27.3	17.6	15.6	
Inadequate work space and facilities*	29.9	36.4	32.3	24.3	22.9	32.1	33.6	31.7	
Personnel shortage*	24.1	31.8	25.6	23.9	24.6	21.0	22.9	15.6	
						(Table C5	continues on	next page.)	

Table C5 (Cont'd): Greatest Challenges, by Years of Experience in the Profession

Q 20. (cont'd) What are your greatest challenges as a school-based professional? Select all that apply. (Percentages) Responses were in										
alphabetical order on survey instrument	nt.									
Analyses limited to respondents who met the following criteria:										
✤ CCC-SLP										
Clinical service provider										
Response		Years of Experience								
	Total $(n = 1,497)$	1-5 (<i>n</i> \ge 219)	6-10 ($n \ge 293$)	11-15 (<i>n</i> \ge 217)	16-20 (<i>n</i> \ge 236)	21-25 (<i>n</i> \ge 186)	26-30 (<i>n</i> = 131)	> 30 (<i>n</i> ≥ 179)		
Limited support from the administration**	23.7	32.7	28.7	18.8	20.8	21.4	19.1	21.2		
Lack of training to work with specific disorders or special populations ^{***}	22.0	29.5	29.4	24.3	17.4	16.6	16.8	12.8		
Legal challenges (e.g., due process)***	12.2	15.9	19.8	8.3	12.2	9.1	9.9	6.7		
Ethical challenges	12.0	15.5	14.3	11.5	10.2	12.4	8.4	10.1		
Travel/distance between schools*	11.0	16.8	11.9	12.8	8.5	8.0	9.9	7.8		

Note. CCC-SLP = Certificate of Clinical Competence in Speech-Language Pathology. *p < .05. **p < .01. ***p = .000.