UC San Diego

Independent Study Projects

Title

Assessment of Spanish Language Proficiency of Bilingual Medical Students

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Author

Yang, Kevin

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ISP Report

Title: Assessment of Spanish Language Proficiency of Bilingual Medical Students

Abstract:

As the population of patients with limited English proficiency (LEP) grows, healthcare systems will increasingly be tasked with providing care in languages other than English. This project is designed to assess UCSD bilingual providers' Spanish proficiency and attitudes towards LEP patients through a series of surveys and standardized Spanish language assessments. It also offers the opportunity for participants to complete a Spanish language educational experience as an intervention. Pre-test, post-test, and post-intervention surveys were developed based on findings during a literature review. Several companies offering Spanish language testing services were considered and contacted. IRB approval was applied for and is currently in process. Though the project did not progress as far as was expected, it will be continued by a rising MS4.

Introduction:

Language diversity is increasing tremendously in San Diego and throughout the country. According to the US Census Bureau, the number of people who speak a language other than English at home increased by 148% between 1980 and 2009¹. More recent data, compiled between 2009 and 2013 and released in 2015 shows that of 291 million people surveyed, 60 million speak a language other than English at home (20.7%)². Of those, over 37 million speak Spanish. Furthermore, over 25 million "Speak English less than 'Very Well'" (8.6%). Of the nearly 3 million people surveyed in San Diego County, the proportion who speak a language other than English at home (37.3%) and who "Speak English less than 'Very Well'" (16.3%), are much higher than on a national scale. Of note, over 700,000 San Diegans, 24.7% of those surveyed, speak Spanish at home. By the Census Bureau's most recent estimate, the number of "language other than English" speakers will increase by between 11 and 15 percent by 2020¹. This increasing language diversity presents challenges to healthcare systems.

Several studies have demonstrated that providing care in a patient's preferred language is associated with improved medical outcomes. One such study found that adverse events involving LEP patients were more likely to involve physical harm (49.1%), be the result of communication errors (52.4%), and involve a higher level of harm (46.8%) than those involving English speaking patients (29.5%, 35.9%, and 24.4%, respectively)³. Another study reported that LEP patients were more likely to have problems understanding their medical situation, have trouble understanding labels, and have a bad reaction than their English speaking counterparts⁴. Interestingly, LEP patients with language-concordant physicians were still more likely to have difficulty understanding their medical situation than English speaking counterparts (OR 2.2), but were significantly less likely to than LEP patients with a language discordant physician (OR 9.4). This body of evidence emphasizes the necessity of providing care in a patient's own language.

Though trained professional interpreters positively affect LEP patient outcomes and satisfaction⁵, they unfortunately appear to be underused. Two qualitative studies, one involving internal medicine residents and the other Canadian physicians, both recognized underuse of professional

interpreters^{6, 7}. This phenomenon, characterized as "getting by", was seen as the result of conflicts between providing ideal care and recognition of intense physician time constraints. Specific methods of "getting by" included using one's own second language skills, having a medical student interpret⁸, and utilizing family members in lieu of professional interpreters.

A 2004 study at the University of Rochester School of Medicine and Dentistry investigated this phenomenon⁹. 4th year medical students and residents in family medicine, pediatrics, medicine/pediatrics, internal medicine, obstetrics/gynecology, and emergency medicine were surveyed regarding their Spanish language competency and usage of interpretation services. 83% of the 241 respondents in this population reported that they had less than conversational language skills. However, only 47% of those with less than conversational language skills reported using an interpreter for every clinical encounter with patients who only speak Spanish. They found that medical students were more likely than residents to report always using a medical Spanish interpreter (though this was not a statistically significant trend). 94% of respondents expressed interest in improving their Spanish language skills and 70% of those with at least some level of Spanish language competency reported interest in having their language skills formally assessed.

A different 2010 study investigated providers' self-perceived Spanish proficiency but also included correlation with results on a standardized language test¹⁰. Surveys were sent to pediatric residents at Seattle Children's Hospital, Johns Hopkins School of Medicine, and Children's Mercy Hospitals and Clinics (in Kansas City, Missouri). 78 of 247 residents responded to the survey and were able to take an ALTA language test. This test is conducted over the phone and consists of 12 questions selected from a bank of 120. Results on the ALTA test were divided into "Not proficient", "Proficient", and "Highly proficient". Similarly to other studies, a large number of residents who rated their Spanish skills as "rudimentary" or "basic" reported communicating with patients without aid from interpreter services (6 out of 23 and 13 out of 17, respectively). 19 residents tested as proficient or better, with five of those residents being highly proficient. Positive predictive value of self-reporting Spanish proficiency for proficiency on the test was only 67%; one in three residents who self-reported as proficient did not test as such. This study again demonstrates a high potential for interpreter under-use. It also introduces the worrisome possibility that many of medical providers are significantly overestimating their own Spanish language abilities.

Medical Spanish education and certification will be critical to guarantee competent care for the growing Spanish-speaking population. A 2011 survey of medical schools conducted by the Latino Medical Student Association sought to assess the state of medical Spanish education in the US¹¹. 110 of 132 medical schools responded to their survey. 73 of those 110 schools reported an existing Spanish curriculum. 12 of the 37 without an existing curriculum planned to establish one within two years. 10 of those 37 had previously discontinued their Spanish curriculum. Modalities used within Spanish curricula varied- 90% included didactic instruction, 69% included student role play, 46% included standardized patients, and 43% offered Spanish language immersion experiences. A minority of programs (21%) offered pre-course proficiency evaluations. Post-course evaluations varied, but included OSCEs, oral exams, and written exams. Several programs have already implemented standardized systems for confirming Spanish

proficiency. The University Of New Mexico School Of Medicine utilizes VersantTM, an overthe-phone Spanish language test to assess medical students' Spanish language skills. They found that students' self-rated proficiency largely correlated with their results on the standardized exam. Loyola University Chicago Stritch School of Medicine's protocol includes two over-the-phone assessments by ALTA TM, a standardized medical language test developed by Kaiser¹². This is combined with specially written Spanish-language observed standardized clinical experiences (OSCEs). Completion of their three-component assessment culminates in the students receiving a "Spanish Bilingual Medical Student Certification" and a "Hablo Español" tag to display on their name badges.

UCSD currently offers a variety of opportunities for medical students and house staff to improve upon their Spanish language skills. Medical students have the opportunity to participate in Spanish immersion experiences during the summer following their first year. Canopy is an online medical Spanish course available to UCSD residents and medical students. Despite the availability of these resources, there is not currently a standardized method for ensuring individual fluency prior to interacting with Spanish-speaking patients.

The goals of this project are to:

- Make a standardized assessment of Spanish language proficiency available to UCSD medical students and house staff
- 2. Assess medical student and house staff attitudes towards Spanish-speaking patients
- 3. Use standardized Spanish assessments as pre- and post-tests for various language learning modalities available to medical students (online courses, immersion experiences abroad, clinical rotations with a high proportion of Spanish-speaking patients, etc.).

Methods:

Surveys:

A pre-test survey was designed as the first step for enrolled participants. A literature review of medical Spanish education curricula, interpreter use in clinical settings, and treatment of LEP and Spanish-speaking patients was conducted. The pre-test survey consists of a total of 46 multiple choice, and free response questions. Six demographic questions are asked of all participants. The number of remaining questions varies based on training level and responses within the survey. Medical students and residents are offered a maximum of 34 additional questions and attending physicians respond to a maximum of 33 additional questions. Many questions were adopted and modified from surveys described in Yawman, et al⁹ and Thompson, et al¹³. The American Council on the Teaching of Foreign Languages (ACTFL) scale, developed by the federal government, was utilized for self-rated Spanish proficiency. A modified Likert scale was used for all questions for which it was appropriate. Items on the pre-test survey assess provider attitudes towards caring for Spanish-speaking patients, self-rated Spanish proficiency, and for trainees, perceived effect of their Spanish proficiency on grading/evaluations.

A post-test survey was designed for administration after participant completion of the standardized Spanish-language assessment. It consists of four multiple choice questions utilizing a modified Likert scale. Items on the survey assess how test results correlated with self-perceived fluency and whether results would change clinical behavior.

A post-intervention survey was designed for administration after participant completion of a Spanish-language learning experience. The post-intervention survey consists of 15 multiple choice items with responses on a modified Likert scale. The survey identifies which Spanish-language intervention was pursued and otherwise duplicates questions from the pre-test survey to assess changes in attitudes towards caring for Spanish-speaking patients and self-rated proficiency.

The pre-test survey was designed and modified based on input from bilingual physician experts, medical Spanish interpreters, and a pilot involving five medical student volunteers who routinely work with bilingual patients at the UCSD Student Run Free Clinics. Post-test and post-intervention surveys have yet to be piloted.

Standardized Assessments:

ALTASM, Versant SM, and CyraCom[®] were identified as potential providers of the standardized language assessment.

ALTA offers the "Qualified Bilingual Staff Assessment" (QBS) ¹⁴. This test was developed by Kaiser and is their current method for certifying staff as bilingual. It is available for a number of languages including Spanish. As noted above, this assessment is also utilized within Loyola University Chicago, Stritch School of Medicine's robust medical Spanish curriculum. The assessment is administered over the phone and is divided into five sections: conversational/social, customer service, nursing diagnosis and instructions, medical terminology, and sight translation. Participants are rated on their ability to communicate in both healthcare and non-healthcare settings. Primary contact person for ALTA was: Derek Ford (DFord@altalang.com). Pricing was quoted at \$100/test with the possibility of a 10% discount after \$10,000 has been spent (100 exams). A free trial assessment is available via Derek.

UCSD Health Sciences has begun to use CyraCom's language assessment services. CyraCom currently provides over-the-phone translation services at UCSD. Their assessment is also offered over the phone. It is currently available to faculty physicians, but not to medical students or house staff.

Versant is a language testing service offered by Pearson^{©15}. Their language assessment is a 15-17 minute conversation over the phone. Notably, the University of New Mexico uses this test in their medical Spanish curriculum. Participants are asked to: read phrases, repeat phrases, provide antonyms for stated words, answer sample questions, build sentences, retell a story, and answer open-ended questions. It is scored in the areas of sentence mastery, vocabulary, fluency, and pronunciation, which are then combined to form the overall score. Pricing was quoted at \$39.95/test with the possibility of negotiating a university discount.

Population:

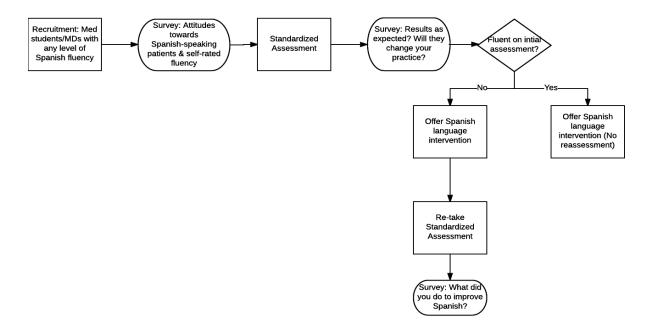
Participants are to be recruited from the UCSD School of Medicine, UCSD Internal Medicine and Family Medicine residency programs, and the Rady Children's Hospital Pediatrics residency program. Any individual with some level of Spanish proficiency is eligible. Of particular interest are those first year medical students who will go on to participate in a Spanish-immersion experience or who will complete a Canopy medical Spanish curriculum.

Possible interventions:

Participants will be offered a number of potential Spanish interventions including, but not limited to: local or international Spanish immersion, work with bilingual providers, or completion of Canopy's medical Spanish course.

Canopy is an online and app-based medical Spanish course. The course is backed by the NIH and is currently used by several medical schools across the country as part of medical Spanish curricula. It is designed to take approximately 50 hours (over three to four months) to complete, and offers a certification upon completion. It is currently available to all UCSD medical students and house staff.

Study design:



Results:

Surveys are included as an addendum.

The three Spanish-language assessments considered were ALTA SM, CyraCom®, and VersantTM.

Advantages of ALTA include its successful incorporation in other health systems (Kaiser and Loyola University Chicago) and its specificity for fluency in the healthcare setting. Disadvantages of ALTA include its relatively high price point and the possibility that it will require medical knowledge greater than that of the average first year medical student.

Advantages of CyraCom include its ongoing adoption by UCSD Health Sciences. However, in a pilot of the assessment, one of our expert bilingual physicians tested as sub-fluent despite Spanish proficiency that has proven incredibly well suited to the clinical context. Thus, we worry that this assessment would be too difficult for the purposes of this study.

Advantages of Versant include a likely appropriate level of difficulty and its competitive pricing. However, unlike the other assessments, it is not specifically designed for healthcare settings. Overall, Versant will likely be the best suited assessment tool for this project.

Discussion:

Unfortunately, the project did not progress as quickly as we had planned upon its proposal. By this point we had expected to have a cohort of first year medical students and residents who had completed their pre-test survey and first round of assessments. Ideally, there would already be a subgroup of participants completing the Canopy curriculum and/or preparing for summer Spanish immersion experiences who could then be re-assessed. This first round of participants, in our initial timeline would be completing the study protocol as early as September 2017. The primary factor slowing progress was my inability to advance the project throughout a busy academic and interview schedule. This led to significant delays in the IRB application process. The other major challenge facing the project was identification and confirmation of a sustainable funding source. The initial plan was to fund participant assessments with grant money, however that will not be possible in the immediate future. The most promising funding sources will likely be the School of Medicine and residency programs from which participants originate. However, these funding sources must still be ultimately confirmed. A minor challenge was the development of our survey without certainty of which assessment tool would be used. We hoped to phrase survey questions regarding self-perceived fluency with terminology matching assessment score reports. Since our assessment tool is undecided at this point, we instead used the ACTFL proficiency scale, a language proficiency rating system developed by the federal government.

There were also several particularly successful elements of this project's formulation. Our literature review yielded numerous completed studies of medical Spanish proficiency amongst healthcare providers and efforts to improve treatment of LEP patients. From these studies, we were able to assemble and expand upon our survey, developing a robust assessment of provider attitudes towards Spanish-speaking patients. Furthermore, we successfully identified several viable options for our Spanish assessment tool. Establishing contact with each company proved much easier than expected, and I am optimistic that we will be able to secure an appropriate tool at a competitive price point. I am also encouraged by the evolution of this project's scope over the course of its development. In its proposal phase, the project's goal was to implement a standardized-language assessment at the UCSD Student-Run Free Clinics. This goal grew to include recruitment of house staff of UCSD's residency programs, development of three surveys, and post-intervention assessments. With these additions the project will be better equipped to help UCSD address the needs of a growing LEP patient population.

This project will be continued by Monisha Dilip, a rising UCSD MS4. Several steps will be necessary to ensure the project's success. First, the IRB application will need to be accepted. Soon after, a small pilot participant group should be recruited such that our assessment tool and post-test survey can be tested and validated. This test group should include providers with a mix of Spanish proficiency levels ranging from those who have proven fluency in a clinical context to those with intermediate skills. The assessment tool should also be definitively chosen such that final pricing can be confirmed. I anticipate that Versant will be the most apt tool for this project, and am hopeful that further discounts can be obtained to further decrease their already competitive pricing. Finally, the project's funding source(s) will need to be confirmed before rolling it out to a larger study population.

Acknowledgements:

Thank you to my project chair, Dr. Natalie Rodriguez, and committee members, Dr. Sunny Smith and Dr. Felicia Rohan-Minjares. I would also like to acknowledge the significant contribution made by Marcela Zhou-Huang in the development of survey instruments and identification of Spanish assessment tools. Lastly, I would like to thank Monisha Dilip for agreeing to lead this project moving forward.

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Medical Spanish Pre-Assessment Survey * Required

1.	Identifier * First letter of mother's maiden name, First 3 digits childhood zip code, Car color
2.	Gender * Mark only one oval.
	Female
	Male
	Other:
3.	Age *
4.	Race/ethnicity * Check all that apply.
	African American/ Black
	Asian
	Caucasian/ White
	Hispanic/ Latino Decline to state
	Other:
	Other.
5.	First Spoken Language? Mark only one oval.
	English
	Spanish
	Other:

		Not at all interested	Not Very Interested	Neutral	Somewhat Interested	Very Interested
Working with speaking pop						
Working with underserved	the					
Becoming a provider	bilingual					
What is your o		al role?				
Mark only one	oval. Student	Skip to question	8			
	Resident					
		Skip to question				
1 acuity/	Medical Atte	stiding Skip i	o question 14.			
edical Stud	dents					
Year in Schoo						
Mark only one	oval.					
◯ MS1						
MS2						
MS3						
MS4						
PhD Ye	are					
Master's	s Year					
Other:						
Other:		r Spanish langua	age skills in a	clinical set	ting after med	ical sch
- •	oval.					
Mark only one						
Mark only one	y					
Mark only one						
No Possibly Probabl						
No Possibly Probabl Yes						
No Possibly Probabl Yes Unsure	y	un auria b				
No Possibly Probabl Yes Unsure		panish				
No Possibly Probabl Yes Unsure NA, I do	o not speak S any patient i	panish nteraction in yo	ur education th	nus far?		
No Possibly Probabl Yes Unsure NA, I do	o not speak S any patient i	nteraction in yo	ur education th	nus far?		

Skip to question 16.

6. How interested are you in...

Residents

11.	Year in Program
	Mark only one oval.
	PGY-1
	PGY-2
	PGY-3
	PGY-4
	PGY-5
	PGY-6
	Chief Resident Year
12.	Specialty Mark and a such
	Mark only one oval.
	Emergency Medicine
	Family Medicine
	Internal Medicine
	Medicine/ Pediatrics
	OB/Gyn
	Pediatrics
	Psychiatry
	Surgical specialty
	Other:
13.	Do you plan on using your Spanish language skills in a clinical setting after you complete residency? Mark only one oval.
	○ No
	Possibly
	Yes
	Unsure
	NA, I do not speak Spanish
	Tw., T do Hot opeak Oparion

Skip to question 16.

Attendings/ ancillary staff

What setting(s) do you practice in? Check all that apply.						
Private practice						
Health System						
Academic Institution						
Federally Qualified Health Cent	er (FQH(.)				
Free Clinic	o. (. a	<i>,</i>				
1100 011110						
Specialty						
Mark only one oval.						
Emergency Medicine						
Family Medicine						
Internal Medicine						
Medicine/ Pediatrics						
OB/Gyn						
Pediatrics						
Psychiatry						
Surgical specialty						
Surgicul Specialty						
011						
Other:						
	/ familie	es				
ient Demographics			Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English			Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with			Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English			Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you	Never		Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you communicate with in English when	Never		Sometimes	Often	Always	
ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you communicate with in English when no professional interpreter is available?	Never		Sometimes	Often	Always	
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Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you communicate with in English when no professional interpreter is available? Who prefer to speak in Spanish?	Never	Rarely	Sometimes	Often	Always	
Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you communicate with in English when no professional interpreter is available? Who prefer to speak in Spanish?	Never	Rarely	Sometimes	Often	Always	
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ient Demographics How often do you care for patients. Mark only one oval per row. Who are Limited English proficiency (LEP)? Whom you communicate with using your own non-English language skills? Who are LEP but you communicate with in English when no professional interpreter is available? Who prefer to speak in Spanish? Oughts + Spanish profice Of Spanish-speaking patients only. Mark only one oval per row.	Never	Rarely y Ten do y	rou think pati	ents/ fa		ıderstar

18.	In general, do you feel that "Spanish-speaking only" patients receive a lower quality of care as compared to English-speaking patients? Mark only one oval.
	○ No
	Possibly
	Probably
	Yes
	Unsure
19.	How would you rate your Spanish proficiency? Mark only one oval.
	Superior
	Advanced
	Intermediate
	Novice
	○ NA
20.	How did you learn Spanish? Check all that apply.
	Speaking at Home
	High School
	College/ University
	Medical School
	Travel abroad/Immersion
	Computer-Based Program
	Other:
21.	How often can you communicate effectively for an entire clinical encounter with a "Spanish-speaking only" patient without the use of an interpreter? Mark only one oval. Never
	Rarely
	Sometimes
	Often
	Always

22.	Mark only one oval.
	Never
	Rarely
	Sometimes
	Often
	Always
23.	How often do you think your Spanish-speaking patients understand you when you speak in Spanish to them?
	Mark only one oval.
	Never
	Rarely
	Sometimes
	Often
	Always
24.	When seeing patients who are "Spanish-speaking only," how often have you attempted to use your Spanish language skills to take a history and/or provide medical advice without the use of an interpreter? Mark only one oval.
	Never (I always use a translator) Rarely
	Sometimes
	Often
	Always (I never use a translator)
25.	How often do you avoid communicating with patients/ families with limited English proficiency/ Spanish-speaking only? Mark only one oval.
	Never
	Rarely
	Sometimes
	Often
	Always
26.	If individual language training were provided during your medical training, would you participate? Mark only one oval.
	Yes
	○ No

Interpreter Use

27.	During an encounter with a Spanish-speaking patient, how often do you start in Spanish and realize that the conversation is beyond your language skills? Mark only one oval.
	Never - skip following question
	Rarely - answer following question
	Sometimes - answer following question
	Very often - answer following question
	Always - answer following question
	NA - I have not had any patient interaction
28.	During those instances in which you realize that the conversation is beyond your Spanish language skills, how often do you call for an interpreter to finish the encounter?
	Mark only one oval.
	Never
	Rarely
	Sometimes
	Often
	Always
	NA - I have not had any patient interaction
29.	What kind of teaching is in place at your current institution regarding how and when to utilize professional interpreters?
	Check all that apply.
	Orientation
	Doctoring/ Practice of Medicine Courses
	Grand round talks
	Human Resources Talks
	Onboarding
	Other:
30.	How often do you use an interpreter?
	Mark only one oval.
	Never
	Rarely
	Sometimes
	Often
	Always
	NA, I have not had interaction with patients

31. How often do you use the following? * Mark only one oval per row.

	Never	Rarely	Sometimes	Often	Always
Language line					
In-person professional interpreters					
Video-line professional interpreters					
Online or mobile app translation					
Other residents/ medical students/ Staff					
Family members <18 years old					
Family members >18 years old					
32. What barriers prevent you from usi Check all that apply. Waiting time for a translator is to		essional	interpreters	availab	le to you?
Lack of availability	-				
Cumbersome communication					
Lack of interpreter medical know	vledge				
Only a family member/ child wa	s availal	ole			
Family, friends, and other staff a	are adeq	uate tran	slator		
Family preference					
I do not need an interpreter					
Other:					
33. Do you feel comfortable serving as Mark only one oval. Yes No	a Span	ish inter	preter in the	clinical	setting?
34. Have you ever been professionally Check all that apply.	certified	d as			
A Medical Interpreter?					
A Bilingual Provider?					
Spanish-proficient?					
Other:					

35.	Note that this question does not refer to the instances in which you had to speak in Spanish to care for and communicate with your own patient. This refers to occasions in which you had to interpret fo others, such as ancillary staff, attendings, residents, and medical students that may or may not have been on your team. *reword description of this question as needed* Mark only one oval.
	Yes
	No Skip to question 41.
	NA - I do not speak Spanish Skip to question 41.
Se	rving as an interpreter
36.	Was there a time when you served as an interpreter even when you weren't comfortable doing so?
	Mark only one oval.
	Yes
	No, skip the following question
37.	If you answered yes to the previous question, why?
38.	Have you ever voiced your concern about the appropriateness of you serving as an interpreter?
	Mark only one oval.
	Yes
	○ No
	No, I do not think it is inappropriate
39.	Did you volunteer to be an interpreter? Mark only one oval.
	Yes
	No
40.	Did you feel forced/ coerced to serve as an interpreter?
	Mark only one oval.
	Yes
	No

Effect of language on grades

41.	Do you think your language skills affect your grade/ evaluations? Mark only one oval.
	Yes
	No Skip to question 44.
Εf	fect of language on grades
42.	How do you think your language skills (or lack of language skills) have impacted your grades/ evaluations?
	Mark only one oval.
	Positive impact
	Negative impact
	Mixed impact
	No impact
	Explain the impact that your language skills (or lack of language skills) have on your grades/ evaluations. fect of language skills on patient selection
44.	Did you feel that your medical education/ selection of patients for your learning has been biased based on your language abilities?
	Mark only one oval.
	Yes
	No Stop filling out this form.
Εf	fect of language skills on patient selection
45.	How has this bias impacted your medical education? Mark only one oval.
	Positive impact
	Negative impact
	Mixed impact
	No impact

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Medical Spanish Post-Assessment Survey * Required

1.	Identifier *
	Same as previous surveys: First letter of mother's maiden name, First 3 digits childhood zip code, Car color
2.	The results of my Spanish assessment were Mark only one oval.
	Significantly better than expected
	Better than expected
	Just as expected
	Worse than expected
	Significantly worse than expected
3.	After taking the Spanish assessment I will be more likely to speak with limited English proficiency patients without an interpreter Mark only one oval.
	Strongly Agree
	Agree
	Neutral
	Disagree
	Strongly Disagree
4.	After taking the Spanish assessment I am more likely to use an interpreter with limited English proficiency patients Mark only one oval.
	Strongly Agree
	Agree
	Neutral
	Disagree
	Strongly Disagree

Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree



Medical Spanish Post-Intervention Survey * Required

S: m	entifier * ame as previous survey: First letter of mother's aiden name, First 3 digits childhood zip code, ar color
Γho	ughts + Spanish proficiency
	ow would you rate your Spanish proficiency? ark only one oval.
(Superior
(Advanced
(Intermediate
(Novice
(NA NA
	what Spanish-language intervention(s) did you participate? heck all that apply.
	Travel abroad
	Immersion program
	Canopy
	Other computer/web-based program
	In-person language classes
	Other:
sp	ow often can you communicate effectively for an entire clinical encounter with a "Spanish beaking only" patient without the use of an interpreter? ark only one oval.
(Never
	Rarely
(Sometimes
(Often
(Always

5.		patients speak Spanish to you, do you understand what they are saying? only one oval.
		Never
		Rarely
		Sometimes
		Often
		Always
6.		ften do you think your Spanish-speaking patients understand you when you speak in sh to them?
	Mark c	only one oval.
		Never
		Rarely
		Sometimes
		Often
		Always
7.	your S	seeing patients who are "Spanish-speaking only," how often have you attempted to use panish language skills to take a history and/or provide medical advice without the use nterpreter?
	Mark c	only one oval.
		Never (I always use a translator)
		Rarely
		Sometimes
		Often
		Always (I never use a translator)
8.	profici	ften do you avoid communicating with patients/ families with limited English ency/ Spanish-speaking only? only one oval.
		Never
		Rarely
		Sometimes
		Often
		Always

Interpreter Use

realize that the conversation is beyomark only one oval.	ond you	ır langu	age skills?			
Never - skip following question	l					
Rarely - answer following ques	tion					
Sometimes - answer following	question	า				
Very often - answer following of	-					
Always - answer following que						
		tion				
NA - I have not had any patien	il ililerac	tion				
During those instances in which yo language skills, how often do you of Mark only one oval. Never Rarely Sometimes Often Always NA - I have not had any patien	call for a	an interp				Spanish
How often do you use an interprete Mark only one oval. Never Rarely Sometimes Often Always NA, I have not had interaction How often do you use the following Mark only one oval per row.	with pat	ients				
	Novor	Daroly	Sometimes	Ofton	Λίνωνο	
Languaga lina	Never	Nately	Joineumes	Oileii	Always	
Language line In-person professional interpreters	\rightarrow			\rightarrow		
Video-line professional interpreters	\rightarrow			\rightarrow		
Online or mobile app translation	$\overline{}$			\rightarrow		
Other residents/ medical students/						
staff						
Family members <18 years old						
Family members >18 years old	$\overline{}$	$\overline{}$		$\overline{}$		

9. During an encounter with a Spanish-speaking patient, how often do you start in Spanish and

Markey Park for a facility for the last
Waiting time for a translator is too long
Lack of availability
Cumbersome communication
Lack of interpreter medical knowledge
Only a family member/ child was available
Family, friends, and other staff are adequate translator
Family preference
I do not need an interpreter
Other:
4. Do you feel comfortable serving as a Spanish interpreter in the clinical setting? Mark only one oval. Yes No
5. Have you ever been professionally certified to serve as Check all that apply.
A Medical Interpreter?
A Medical Interpreter? A Bilingual Provider?
A Bilingual Provider?

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