- We will begin momentarily
- This webinar is being recorded and will be available online next week



Audio will come through your computer speakers

- Make sure your speakers are ON and the volume is turned up
- If you have no sound once the webinar begins, click
- For assistance, send a **Chat** message to "AAMC"
- Type your questions for the speakers in the "Q&A" panel at the bottom, Send to "All Panelists"

Type your questions for the speakers here.

Ask All Panelists

Select a panelist in the Asl	cmenu first and then	type your question here. There	
is a 256-character limit.			

Send



Teaching Medical Spanish to Improve Population Health

Learn		
Serve		
Lead		

February 22, 2018 1:30 - 3:00 p.m. ET

> Association of American Medical Colleges

Welcome & Introductions: Sherese Johnson, MPH, PMP



Director, Public Health Initiatives Association of American Medical Colleges (AAMC)



- This webinar is being recorded and will be available online next week
- Audio should be coming through your computer speakers now
 - Make sure your speakers are ON and the volume is turned up
 - If you have no sound, click
 - To request the phone number, click
- For assistance, send a Chat message to "AAMC"
- Type your questions for the speakers in the "Q&A" panel at the bottom, Send to "All Panelists"



Ask All Panelists

Select a panelist in t	the Ask menu f	first and then t	type your question	here. There
is a 256-character li	mit.			

Send

Population Health Connect Newsletter

Receive updates on population health activities, curricular resources, and upcoming meetings relevant to the academic medicine community.

Subscribe at <u>aamc.org/cdc</u>





Public Health Pathways



An online searchable database of domestic and international public health training opportunities for:

- Pre-med/Pre-health Students
- Medical/Graduate Students
- ✓ Residents/Postdocs
- Early Career Physicians & Scientists

Visit **Public Health Pathways** at: <u>aamc.org/phpathways</u>



Moderator: Pilar Ortega, MD University of Illinois Chicago (UIC)



- Directs and teaches the Medical Spanish program for the UIC College of Medicine's Hispanic Center of Excellence
- Co-founder and President, Medical Organization for Latino Advancement (MOLA)
- Midwest Chair, National Hispanic Medical Association (NHMA)
- MD and EM Residency, University of Chicago Pritzker School of Medicine



Objectives

- Public health impact of language concordance
- Opportunities to teach Medical Spanish
- Sample Program Benefits & Lessons Learned
- Evaluation and Certification
- Future steps



Panelists



Yumi Turmelle, MD Washington University in St. Louis



David Acosta, MD AAMC



Norma Pérez, MD, DrPH University of Texas Medical Branch



Brenda Robles, BA National Institutes of Health



Panelist: Yumi Turmelle, MD Washington University in St. Louis (WUSTL)



- Associate Professor of Pediatrics and Course Master for Advanced Medical Spanish, WUSTL
- Medical Director, Liver Care Center, St. Louis Children's Hospital
- Chair, Faculty Diversity Committee, WUSTL
- MD, University of Florida
- Pediatric Residency, University of Miami



Panelist: David Acosta, MD



Chief Diversity and Inclusion Officer Association of American Medical Colleges (AAMC)



Panelist: Norma Pérez, MD, DrPH University of Texas Medical Branch (UTMB)



- Director, School of Medicine Special Programs, and Bilingual Health Track
- Executive Director, Hispanic Center of Excellence (HCOE)
- Author, Clinical Conversational Spanish for English and Spanish Healthcare Professionals[©]
- President, Hispanic-Serving Health Professions Schools (HSHPS)
- Universidad de Monterrey (MD) and Universidad Nacional Autónoma de Mexico (PM&R)
- DrPH in International and Family Health, UTHSC School of Public Health



Panelist: Brenda Robles, BA National Institutes of Health (NIH)



- Manager, Language Interpreters Program (LIP), NIH Clinical Center
- California State Certified Medical Interpreter
- Co-authored <u>The Medical</u> <u>Interpreter/Translator Code of</u> <u>Ethics</u>



Overview of Language Discordance in Medicine



Yumi Turmelle, MD Washington University in St. Louis School of Medicine (WUSTL)



Introduction

- Not enough Spanish speaking providers to take care of the limited-English proficiency (LEP) Hispanics
- Disparity in care



Hispanics by the Numbers

HISPANIC POPULATION WILL CONTINUE TO RISE; NON-HISPANIC WHITE POPULATION WILL CONTINUE TO DECLINE

HISPANICS WILL CONTINUE TO ACCOUNT FOR OVER 50% OF FUTURE U.S. POPULATION GROWTH



Source: U.S. Census Bureau, 2014 National Population Projections

Copyright © 2016 The Nielsen Company



Hispanics by the Numbers

Changing Nation

Percent Hispanic of the U.S. Population: 1980-2050



U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU census.gov ources: 1980 to 2000 Decennial Censuses; July 1, 2013, Population Estimates; 2012 National Population Projections.



Figure 2. Percentage of U.S. medical school applicants by race and ethnicity, 2015.



Source: AAMC Fact Table A-12. https://www.aamc.org/download/321480/data/factstablea12.pdf.



Figure 7. Percentage of U.S. medical school applicants by Hispanic or Latino subgroups, 2015.

Note: Beginning in 2002, individuals could identify as more than one race. Data included here are only for individuals who identify as Hispanic and do not identify as any other race.

Source: AAMC Data Warehouse: Applicant and Matriculant File, as of Feb. 11, 2016.





Figure 8. Percentage of accepted U.S. medical school applicants by race and ethnicity, 2014-2015.



Source: AAMC Fact Table A-12. https://www.aamc.org/download/321480/data/factstablea12.pdf.



Figure 4. Number of U.S. medical school applicants by race and ethnicity, 1974-2015.



Note: Beginning in 2002, individuals could identify as more than one race. For all years presented here, data are included only for individuals who identified with a



Figure 17. Percentage of U.S. medical school graduates by race and ethnicity, 2015.

Source: AAMC Fact Table B-4. https://www.aamc.org/download/321536/data/factstableb4.pdf.



Figure 20. Percentage of full-time U.S. medical school faculty by race and ethnicity, 2015.

Note: To allow for unduplicated counts of faculty, the "Multiple Race – Hispanic" break-out includes all faculty who reported as Hispanic and at least one other race. The "Multiple Race – Non-Hispanic" break-out includes all faculty who are reported as more than one race, but who are not reported as Hispanic. Source: AAMC Faculty Roster, Dec. 31, 2015. snapshot.





- Lack of Diversity in medical schools is a common citation by the Liaison Committee on Medical Education
- Little national data on physicians' Spanish language skills
 - Mostly self-reported



Health Issues Associated with Language-discordance

- Less access to preventive health services
- Poor understanding of instructions or medications
- Longer hospital stays
- Increased risk of medical errors and misdiagnoses
- Decrease patient satisfaction



Disparities in Care - Preventive Care

Am J Public Health, 2008 Nov;98(11):2021-8. doi: 10.2105/AJPH.2007.119008. Epub 2008 Sep 17.

Language spoken and differences in health status, access to care, and receipt of preventive services among US Hispanics.

DuBard CA1, Gizlice Z.

TABLE 2—Prevalence of Selected Health Indicators Among US Hispanics, with Adjusted Odds Ratios (AORs) for Spanish-Speaking Hispanics Relative to English-Speaking Hispanics: Behavioral Risk Factor Surveillance System, 2003–2005

Health Indicator	Years Asked	No.	Spanish Speakers, % (95% Cl)	English Speakers, % (95% Cl)	P ^a	AOR for Spanish Speakers ^b (95% Cl)
Receipt of preventive services						
No flu shot in past year	2003, 2004, 2005	44 915	81.4 (80.3, 82.4)	75.8 (74.8, 76.8)	<.001	1.37 (1.24, 1.50)
No pneumonia vaccine ever	2003, 2004, 2005	41 169	84.8 (83.8, 85.9)	82.2 (81.1, 83.1)	<.001	1.23 (1.10, 1.38)
No dental visit in past year	2004	15 368	50.3 (47.9, 52.7)	35.4 (33.4, 37.4)	<.001	1.64 (1.43, 1.88)
No sigmoidoscopy or colonoscopy in past 10 y (ages \geq 50 y)	2004	4 117	64.6 (59.4, 69.5)	60.8 (56.7, 64.8)	.301	1.00 (0.73, 1.35)
No mammogram and CBE in past 2 y (ages \geq 40 y)	2004	4 512	54.3 (49.8, 58.8)	49.1 (44.2, 52.9)	.109	1.16 (0.90, 1.50)
No pap smear in past 3 y	2004	7 755	15.9 (13.5, 18.6)	16.3 (14.1, 18.7)	.828	0.89 (0.67, 1.19)
No PSA test ever (ages \geq 40 y)	2004	2 690	61.6 (55.6, 67.3)	49.8 (44.9, 54.6)	.005	1.38 (0.95, 2.00)



Disparities in Care - Worse Outcomes

JAMA Intern Med. 2017 Mar 1;177(3):380-387. doi: 10.1001/jamainternmed.2016.8648.

Association of Patient-Physician Language Concordance and Glycemic Control for Limited-English Proficiency Latinos With Type 2 Diabetes.

Parker MM¹, Fernández A², Moffet HH¹, Grant RW¹, Torreblanca A³, Karter AJ¹.

- 1605 LEP Latinos with diabetes
- Switching to language concordance provider
- Results: significant improvement in
 - Glycemic controls
 - LDL control



Disparities in Care -Poor Understanding of Medications

JAMA Intern Med. 2017 Mar 1;177(3):371-379. doi: 10.1001/jamainternmed.2016.8653.

Adherence to Newly Prescribed Diabetes Medications Among Insured Latino and White Patients With Diabetes.

Fernández A1, Quan J1, Moffet H2, Parker MM2, Schillinger D1, Karter AJ2.

- Observational study for 2 years
- Determine adherence of new diabetes medications





Disparities in Care - Decreased Medical Comprehension

J Gen Intern Med. 2005 Sep; 20(9): 800-806.

PMCID: PMC1490205

doi: 10.1111/j.1525-1497.2005.0174.x

Effects of Limited English Proficiency and Physician Language on Health Care Comprehension

Elisabeth Wilson, MD, MPH,¹ Alice Hm Chen, MD, MPH,^{2,3} Kevin Grumbach, MD,^{1,4} Frances Wang, MS,^{2,4} and Alicia Fernandez, MD^{2,4}



¹Respondents who answered "yes" to the question: "Have you ever had a problem understanding a medical situation because it was not explained in (respondent language)?" ²Results are unadjusted. ³P<.01 for limited English-proficient (LEP) comparison; P>.05 for English proficiency comparison).



Disparities in Care -Increased Medical Errors

Int J Qual Health Care. 2007 Apr;19(2):60-7. Epub 2007 Feb 2.

Language proficiency and adverse events in US hospitals: a pilot study.

Divi C1, Koss RG, Schmaltz SP, Loeb JM.

Table 3 Adverse event Impact characteristics for English speaking and LEP patients

Adverse event characteristic	English speaking N (%)	Limited English proficient N (%)	P-value
Physical harm			< 0.001*
No harm	366 (46.1)	89 (40.1)	
No detectable harm	194 (24.4)	24 (10.8)	
Minimal temporary harm	177 (22.3)	58 (26.1)	
Moderate temporary harm	46 (5.8)	43 (19.4)	
Severe temporary harm	7 (0.9)	7 (3.2)	
Severe permanent harm	1 (0.1)	0 (0.0)	
Death	3 (0.4)	1 (0.5)	

*Overall statistical significance between ES and LEP on the distribution of physical harm. The concepts represented in this table are derived from the primary classification category of Impact within the PSET [17, 18]. Thirty-eight English speaking cases and 29 LEP cases are missing from the table because those incident reports did not contained enough information to be categorized on this concept.



Disparities in Care – Patient Satisfaction

J Pediatr Surg. 2015 Sep;50(9):1586-9. doi: 10.1016/j.jpedsurg.2014.12.020. Epub 2014 Dec 31.

The effects of language concordant care on patient satisfaction and clinical understanding for Hispanic pediatric surgery patients.

Dunlap JL¹, Jaramillo JD¹, Koppolu R¹, Wright R¹, Mendoza F², Bruzoni M³.

- Families were categorized into three groups:
 - English-speaking
 - Spanish-speaking, interpreter services, English-speaking medical team
 - Spanish-speaking, Spanish-speaking medical team
- Survey Questions:
 - Provider-patient language concordance
 - Quality of understanding
 - General satisfaction
- Results: Higher satisfaction score and understanding with Spanish-speaking medical team



Key Points

- Growing Hispanic population
- No growth of Hispanic physicians
- Increased patient-physician language discordance
 - Impacts the delivery of safe, high-quality care



Medical Spanish Curricula in U.S. Medical Schools



David Acosta, MD Chief Diversity and Inclusion Officer Association of American Medical Colleges (AAMC)



National Survey of Medical Spanish Curriculum in U.S. Medical Schools J Gen Intern Med 2015;30(10):434-439

Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

¹Department of Pediatrics, Kaiser Permamente, Oakland, CA, USA; ²Department of Emergency Medicine, Emergency Medicine at Henry Ford Hospital, Detroit, MI, USA; ³Department of Family Medicine, University of Washington, Seattle, WA, USA; ⁴Contra Costa Regional Medical Center, Martinez, CA, USA; ⁵University of California, Davis, Sacramento, CA, USA; ⁶Health Promotion and Behavioral Science, School of Public Health, The University of Texas Health Science Center at Houston, San Antonio, TX, USA; ⁷Department of Medicine, University Of Chicago Pritzker School Of Medicine, Chicago, IL, USA; ⁸Biological Sciences Learning Center, Chicago, IL, USA.

- LMSA email survey, 39 items, 2012 to 2014
- N = 110/132 medical schools, 83% response rate



National Survey of Medical Spanish Curriculum in U.S. Medical Schools J Gen Intern Med 2015;30(10):434-439

Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

¹Department of Pediatrics, Kaiser Permamente, Oakland, CA, USA; ²Department of Emergency Medicine, Emergency Medicine at Henry Ford Hospital, Detroit, MI, USA; ³Department of Family Medicine, University of Washington, Seattle, WA, USA; ⁴Contra Costa Regional Medical Center, Martinez, CA, USA; ⁵University of California, Davis, Sacramento, CA, USA; ⁶Health Promotion and Behavioral Science, School of Public Health, The University of Texas Health Science Center at Houston, San Antonio, TX, USA; ⁷Department of Medicine, University Of Chicago Pritzker School Of Medicine, Chicago, IL, USA; ⁸Biological Sciences Learning Center, Chicago, IL, USA.

- LMSA email survey, 39 items, 2012 to 2014
- N = 110/132 medical schools, 83% response rate

AAMC Region	Total number of schools in region*	Schools per region participating in study* n (%)	Participating schools with a medical Spanish curriculum* n (%)
Central	31	29 (94)	17 (59)
Northeastern	35	32 (91)	19 (61)
Western	17	14 (82)	10 (71)
Southern	48	35 (73)	27 (77)

Table 2. Participating Medical Schools by AAMC GeographicRegion

*excluding schools in Canada



National Survey of Medical Spanish Curriculum in U.S. Medical Schools J Gen Intern Med 2015;30(10):434-439

Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

¹Department of Pediatrics, Kaiser Permamente, Oakland, CA, USA; ²Department of Emergency Medicine, Emergency Medicine at Henry Ford Hospital, Detroit, MI, USA; ³Department of Family Medicine, University of Washington, Seattle, WA, USA; ⁴Contra Costa Regional Medical Center, Martinez, CA, USA; ⁵University of California, Davis, Sacramento, CA, USA; ⁶Health Promotion and Behavioral Science, School of Public Health, The University of Texas Health Science Center at Houston, San Antonio, TX, USA; ⁷Department of Medicine, University Of Chicago Pritzker School Of Medicine, Chicago, IL, USA; ⁸Biological Sciences Learning Center, Chicago, IL, USA.

- 66% (73/110) had medical Spanish curriculum
 - 62% (45/73) curriculum for ≥ 5 yrs
- Drivers LEP populations served & MS interest

	Coursework exists	Coursework does not exist	p value
Medical school (n=1	/		
Public	30	15	p>0.99
Private	43	22	
LEP state status (n=	110)		
High (6 states)	26	11	p=0.76
All other states	47	25	1

Table 3. School Characteristics and Medical Spanish Coursework


Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

- 66% (73/110) had medical Spanish curriculum
 - 62% (45/73) curriculum for <u>></u> 5 yrs
- 32% (12/37) with no curriculum planned to institute within 2 yrs
- 27% (10/37) had previous curriculum but discontinued



Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

Instructional Modality	Number (Percent)
Multiple modalities	56/67 (84%)
Didactic	60/67 (90%)
Student-to-student role play	46/67 (69%)
Standardized patients	31/67 (46%)
Clinical encounters w/patients	23/67 (34%)
Immersion experiences	29/67 (43%)
Other	Interpreter shadowing, online modules, case discussions, interpreter OSCE



Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

- Course credit offered 62% (41/66)
 - Other: certificate of completion, letter in personal file, mentioned in dean's letter



Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

- Course credit offered 62% (41/66)
 - Other: certificate of completion, letter in personal file, mentioned in dean's letter
- Evaluation Pre-course
 - Pre-course language proficiency 21% (14/66)



Accuracy of Self-Assessed Spanish Fluency in Medical Students

Teaching and Learning in Med 2009;21(4):305-309

Daniel S. Reuland

Division of General Medicine and Clinical Epidemiology and the Center for Latino Health, University of North Carolina, Chapel Hill, North Carolina, USA

- Determine the accuracy of medical student's selfassessed Spanish fluency
- N = 102 participants, Spoken Language Evaluation (standardized language fluency test, ALTA)
- Results:
 - 12% tested below their self-assessed level
 - 75% tested at their self-assessed level
 - 13% tested above their self-assessed level
- Predictive value of self-assessment for having at least that fluency level was 88% (95% CI = 80, 94)



National Survey of Medical Spanish Curriculum in U.S. Medical Schools

Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

- Course credit offered 62% (41/66)
 - Other: certificate of completion, letter in personal file, mentioned in dean's letter
- Evaluation Pre-course
 - Pre-course language proficiency 21% (14/66)
 - Multiple level curriculum 59% (39/66)
- Evaluation Post-course
 - Oral exam 47% (31/66)
 - Written exam 39% (26/66)
 - Other OSCE (12/66), attendance/self-assess (7/66)



Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

- 75% (51/68) reported their students conducted patient interviews in Spanish or that students served as interpreters
 - 57% (29/51) did not require any proof of language fluency
- 14/51 required proficiency or interpreter certification tests



Raymond Morales, MD, PhD¹, Lauren Rodriguez, MD², Angad Singh, MPH, MD³, Erin Stratta, MD⁴, Lydia Mendoza, MD⁵, Melissa A Valerio, PhD⁶, and Monica Vela, MD^{7,8}

¹Department of Pediatrics, Kaiser Permamente, Oakland, CA, USA; ²Department of Emergency Medicine, Emergency Medicine at Henry Ford Hospital, Detroit, MI, USA; ³Department of Family Medicine, University of Washington, Seattle, WA, USA; ⁴Contra Costa Regional Medical Center, Martinez, CA, USA; ⁵University of California, Davis, Sacramento, CA, USA; ⁶Health Promotion and Behavioral Science, School of Public Health, The University of Texas Health Science Center at Houston, San Antonio, TX, USA; ⁷Department of Medicine, University Of Chicago Pritzker School Of Medicine, Chicago, IL, USA; ⁸Biological Sciences Learning Center, Chicago, IL, USA.

- 75% (51/68) reported their students conducted patient interviews in Spanish or that students served as interpreters
 - 57% (29/51) did not require any proof of language fluency
- 14/51 required proficiency or interpreter certification tests

Describing Physician Language Fluency Deconstructing Medical Spanish JAMA 2009;301(4):426-428

Lisa C. Diamond, MD, MPH Daniel S. Reuland, MD, MPH

> ANGUAGE BARRIERS ARE INCREASINGLY IMPORTANT IN US health care. Limited English proficiency is associated with poorer health care processes and out comes.¹ Disparities in care for patients with limited

quently substituting their own limited spoken Spanish during clinical encounters. $^{\rm 7}$

Because many physicians who provide languageconcordant care are not native speakers of Spanish, studies are needed to help understand the degree of fluency a clinician needs to provide high-quality, language-concordant communication. In addition, a more basic problem is the lack of consistency in describing and assessing physicians' linguistic

 Call for research, policies and adoption of required language fluency testing that is standardized & already tested across non-healthcare industries





Urban Universities for HEALTH www.uuhealth.org



Sample Institutional Goals

Promote equity in educational pathways to health and science careers Increase the diversity of the leadership, faculty, and student body in the health professions

Integrate cultural competence and population health within health professions education Graduate health professionals who will work with medically underserved populations and/or high-need specialties to improve access to care



Metrics Toolkit

Urban Universities for HEALTH Metrics Generator	Goa	als Strategies & Indicators Review Your progress: goal 1 of 1, strategy 1 of 1
Select the indicators you would like to measure for Strategy 2 Click all that apply.	Increase linguistic diversity among students	
Indicator 1: Enrollment of students who speak a foreign language	Indicator 2: Graduates' foreign language proficiency	
Measures: • Percent of incoming students who speak one or more languages other than English, by health professions program	Measures: • Percent of health professions graduates who have learned another language in training, by health professions program	
Select	Select	
< Back		Continue
		😒 Give Us Feedback



Brief Q&A Session



Type your questions in the 'Q&A' panel at the bottom right of your screen and send to "All Panelists."



Medical Spanish Program at an Academic Medical Center



Norma Pérez, MD, DrPH University of Texas Medical Branch (UTMB)



Background/Timeline





Course Objectives

- Communicate clearly and effectively in Spanish using simple and practical vocabulary as well as meaningful medical terminology.
- Demonstrate proficiency in employing the Spanish language in a Full Medical History taking and Physical Exams.
- Demonstrate an understanding and appreciation of cultural differences in the health perceptions of Spanish-speaking patients.

Requirements

• There are no formal pre-requisites for the course. However, since this is an online medical language course, I recommend that the student have at least three years of high school Spanish or equivalent and be proficient orally at a minimal of basic high or intermediate-basic level.



for English and Spanish Speaking Healthcare

Course Layout

Clinical Conversational Span1s

Housed in Blackboard

Pretest, Posttest, Program Evaluation Survey

Learning Modules

Module 1: Greeting the Patient Module 2: Taking a Full Medical History

Part 1 - Chief Complaint and History of Present Illness

Part 2 - Past Medical History and Past Surgical History

Part 3 - Family History and Social History

Module 3: Review of Systems Module 4: Physical Exam

Module 5: Diagnosis and Patient Medication Instructions

Professionals

Part 1 - General Treatment, Testing, and Follow-up

Part 2 - Review of Condition - Diagnosis

Part 3 - Medical Therapy and Patient Instructions

Module 6: Special Populations

Part 1 -OB-GYN Part 2 - Geriatrics Part 3 - Psychiatry

Learning Resource Center

Spanish Basics, Grammar, Anatomy, Medical Terminology, The Culture

Online Tools

Online English-Spanish translator, Spanish Dictionary, etc.

Full Medical History in Spanish



Weekly Planner

		Required Activities	Videoconference	
Neek	On Your Own	Due by the end of the week	Mandatory Sessions	Resources
	1. Take pre test. This must be completed on the first day of elective.			
	 2. Review all LRC sections: Basic Spanish (test) Grammar (test) Medical Terminology (test) 			
	Culture Anatomy	1. Take tests in LRC and Module 1		
Week 1	3. Review Module 1 4. Record 1st Mini-video on CC, HPI, PMH, SH, FH	 2. Submit 1st Mini-video. Must include: CC HPI PMH, SH, FH 	Review taped interviews and provide peer feedback on taped interviews	The Hispanic Center of Excellence (HCOI has Spanish language and medical Spanish resources to loan out.
Week 2	 Continue to review LRC sections Review all three sections of Module 2 Record 2nd mini-video on 3 ROS, DX and Patient medication instructions 	 Take Module 2 tests Submit 2nd Mini-video. Must include: 3 ROS pertinent to case Diagnosis and Patient Medication Instructions 	Review taped interviews and provide peer feedback on taped interviews	The HCOE has cameras and tripods to loan out. Students may use HCOE computers and software to edit videos.
Week 3	 Continue to review LRC sections Review Module 3, 4, and 5 Record 3rd Mini-video on 30 year old female. MUST include complete OB/GYN history. 	 Take Modules 3, 4, and 5 tests. Submit 3rd Mini-video. Complete History on 30 year old female. MUST Include OB/GYN history 	Review taped interviews and provide peer feedback on taped interviews	Peer Tutors are not available every period
Week 4	 Continue to review LRC sections Review Module 6 Record full medical history video (final video) 	 Take Module 6 tests Submit full medical history video. Video must include all sections of the history Complete overall course posttest and program evaluation survey 	Review taped interviews and provide peer feedback on taped interviews	Return all borrowed materials.

Note: Videoconference sessions area MANDATORY of the course and scheduled according to faculty and student availability. Student must upload free version of Skype Business. Student must have microphone and camera to join videoconference.



Assessment Summary

Pretest and 15 Module Tests	40%
3 Taped Encounters	20%
 Video #1: CC, HPI, PMH, FH, SH Video #2: Review of System of your choice (preferably regarding your clinical case) with a minimum of 3 systems and Diagnosis and Patient Medication Instructions Video #3: OB/GYN Each video up to 5 minutes long 	
Video #4: Final video is a Full Medical History	20%
Up to 20 minutes long	
Posttest	20%
Total	100%



Quantitative Data - Program Course Evaluation

Academic Years: 2013-2017 a total of 108 students have taken the course.

- Program Course Evaluation: 61
 responses
 - 88.5% MS4
 - 11.5% MS3
- Level of Spanish proficiency:
 - 42.9% Basic
 - 28.6% Intermediate
 - 28.6% Advance
- Course content was useful and relevant to clinic
 - 66.7%

- Do you believe Clinical Spanish should be a mandatory elective?
 - 57.1% Yes
 - 42.9% No
- Why did you choose this course?
 - 52.4% Career development
 - 38.1% Personal interest
 - 9.5% Time offered



Qualitative Data - Program Course Evaluation

- "I think this course is not only helpful for anyone with a Spanish-speaking background but also would be helpful to all students since we live in a state with a large Spanish-speaking population. The class was extremely beneficial while also being fun, allowing for open dialogue and many opportunities to ask questions and receive feedback."
- "This course was extremely useful and I wish we could integrate it or some form of it into our curriculum as many of our patients in Texas speak Spanish."
- "I found the required taped interviews for key to mastering Spanish vocabulary and grammar."
- "The content of this course was very useful. I learned new vocabulary that I will use without a doubt in the hospital. It helped me learn expressions that will give me more information during patient interviews. Overall, it was an excellent course and I will be recommending it to other classmates."
- "Great course! It was such a great experience to use and speak Spanish. I feel less shy now about speaking Spanish. Thank you!"
- "Very useful course for both native and non-native speakers to refine their medical vocabulary and practice the language in a relaxed environment. I feel more prepared in terms of being able to communicate with my patients in both the hospital and clinical settings."
- "LOVED this class! So helpful and well structured. Great modules with easy to access resources for the beginner and advanced Spanish speaker. This class will be one of my most remembered during medical school."
- "Overall, I very much enjoyed this course and was very happy with how much my Spanish improved over the month!!"
- "I loved this course! It was so helpful in preparing for residency and my future practice as a physician."
- "This course is invaluable in developing Spanish-speaking skills that can immediately be applied in the clinic setting. This course is useful for people of all Spanish proficiency levels. In the video conferences, it was easy to see improvement in students with low proficiency and even students who were already fluent in Spanish. I cannot recommend this course highly enough."



Challenges and Lessons Learned

Challenges

- Technology
 - Be available to answer to program glitches
 - Constant upgrade/maintenance of the course
- Faculty
 - Recruitment of bilingual faculty
 - Few bilingual faculty

Lessons Learned

- Act on students needs
- Keep groups small
- Open to course modifications and growth



Best Practices and Dissemination

Best Practices

- Identification of gap in career development Clinical Conversational Practice
 - Preclinical years use of History checklist to practice of clinical conversation in clinical years before residency
- Provides student to practice in discipline of choice (pursuing specialty)
- Video practices/scenarios provides more in-depth comprehension
- Positive student feedback gave rise to the Hybrid ½ clinical and
 ½ online Immersive Clinical Spanish course
- Applicable to other clinical areas



Dissemination

- Sell of CCS course with the option to follow own course of application
- Manuscript under review



Additional Information

- Bilingual Health Track webpage: <u>utmb.edu/HCOE/BilingualHealthTrack/</u>
- Clinical Conversational Spanish You tube link: <u>youtu.be/VewvNbLjjL4</u>
- Inquiries or purchasing, please contact:

Norma A. Pérez, MD, DrPH noaperez@utmb.edu 409.772.3558



Medical Spanish: Interdisciplinary Partnerships between Bilingual Physicians and Medical Interpreters



Brenda Robles, BA National Institutes of Health (NIH)



Understanding the Mission/Vision of your Institution regarding LEP and Multilingual Resources

- Does your institution have a Language Access Plan?
- Do you have a Professional Language Interpreters Program (LIP)?
- How do bilingual providers contribute their linguistic skills?





The Bilingual Physician

Important considerations:

- Fluency: heritage learner, native speaker, or a second language learner
 - Basic
 - Intermediate
 - Advanced Proficiency

*In the healthcare setting, Spanish fluency in medical terminology is crucial in ensuring successful communication.



The Bilingual Physician

Important considerations:

- How will bilingual skills be used?
 - General scope
 - Specialty driven
 - Research focused
- How will delivery of language services be documented?
- Recognizing strengths and limitations is crucial



The Medical Interpreter

- Adheres to Code of Ethics, certification requirements, and serves strictly as a conduit
- Trained to listen, decipher, re-compose, and render messages from source to target language
- Has excellent command of medical/legal vocabulary, idiomatic expressions, and register
- Strives to preserve the spirit and intent of the source message
- Is objective and will not interject opinion
- Serves as a cultural broker and advocate
- Maintains on-going training requirements



Partnering with Interpreters

- Follow the medical language training program of your institution
- Seek guidance from the LIP to:
 - Raise awareness of LEP needs
 - Brand communication as a patient right, compliance, and safety issue
 - Increase patient satisfaction
- Partner with the LIP for discipline specific trainings
- Involve the LIP in patient education and recruitment initiatives
- Ensure that patient materials are translated into Spanish



Q&A Session



Type your questions in the 'Q&A' panel at the bottom right of your screen and send to "All Panelists."



Closing Remarks



Sherese Johnson, MPH, PMP Director, Public Health Initiatives AAMC





Learn	
Serve	
Lead	

The AAMC-CDC Webinar Series is supported by the Cooperative Agreement Number, 1 NU36OE000007-01, funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the panelists and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the Department of Health and Human Services.

Association of American Medical Colleges