Increasing Health Care Workers’ Proficiency With Using Professional Medical Interpretation: A Workshop

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Abstract

Introduction: Families with limited English proficiency are at risk for poor outcomes and medical errors due to barriers in communication. The use of professional medical interpretation has been linked to improved access to care, improved patient satisfaction, and better outcomes. However, medical interpretation remains underutilized, and the literature lacks guidelines for training health care workers in its use. This workshop aims to teach the skills needed to access and appropriately use professional medical interpretation. Methods: Our team included two residents, two fellows, two faculty members, and two fellowship coordinators. This 90-minute workshop targeted at health care workers included a warm-up activity, role-play with three different types of interpretation, and large-group discussion. Anonymous evaluations were collected at the end of the workshop. Results: The workshop was presented at six academic conferences (three local, one regional, and two national). Postworkshop evaluations were collected from 53 participants from multiple health care backgrounds (including medical students, residents, and physicians). The majority of participants reported that the workshop met learning objectives (98%), represented a valuable use of time (98%), and included useful handouts (92%). In addition, 90% of participants reported that the information shared in the workshop would be applied to their medical practice. Themes that emerged from postworkshop evaluations included participants’ intentions to change their practice, to augment training for other providers, and to pursue institutional change. Discussion: This workshop fills an important gap in medical education and provides a comprehensive orientation to interpretation resources and best practices.

Keywords
Professional Medical Interpretation, Workshop, Communication Skills, Cultural Competence, Professionalism, Diversity, Inclusion, Health Equity

Educational Objectives

By the end of this activity, learners will be able to:

1. Describe the impact of limited English proficiency on quality of patient care.
2. Practice techniques for different professional medical interpretation modalities, including working with an in-person interpreter, phone interpreter, and video interpreter.
3. Propose one goal to improve the use of professional medical interpretation in their home institution.

Introduction

The challenges of providing excellent medical care to patients and families with limited English proficiency (LEP) are multifaceted and well documented. Language barriers threaten effective communication between patient and provider, and numerous studies have highlighted medical errors and poor outcomes that disproportionately affect individuals with LEP.1-4 In turn, research consistently demonstrates the benefits of using professional medical interpretation, which include improved access to care, improved satisfaction with care, better outcomes, and fewer errors.3,4 Professional medical interpretation can occur through multiple modalities, including in-person interpretation, interpretation over the phone, and video interpretation using a tablet. Nonetheless, obstacles at the individual and institutional levels continue to limit the use of professional medical interpretation by health care workers,1,5-7 thereby impeding access to high-quality care for patients and families.
with LEP. This workshop is designed to facilitate discussion of the challenges faced by health care workers when caring for LEP families and to teach best practices for the use of professional medical interpretation.

Numerous studies have identified barriers that prevent health care workers from consistently utilizing professional medical interpretation. Access to professional medical interpretation at an institutional level is crucial to providing adequate care for individuals with LEP, and the US Department of Health and Human Services has indicated that the failure to provide interpreter services to patients with LEP constitutes a form of discrimination. However, professional medical interpretation remains largely underutilized, even at institutions where interpreter services are readily available. Obstacles responsible for the underutilization of medical interpretation include lack of time, lack of training, and normalization of the use of interpreters. These obstacles can operate in isolation or in concert. For example, health care workers who are not trained to use professional medical interpretation may be less efficient at using these resources when available, and lack of training on this subject may diminish its perceived importance at an institutional level. For these reasons, development and implementation of training focused on increasing the proper use of professional medical interpretation represent a critical step in providing high-quality care for LEP families. However, the literature lacks clear guidelines for developing or implementing such training.

Prior studies centering on improving the use of medical interpreters have often focused on web-based curricula or discussion of best-practice guidelines. While these approaches have the advantage of being easily accessed, the use of a web-based format lacks the additional educational benefit provided by simulation and role-play. Engaging in a skill through role-play or simulation has been shown to increase confidence with the skill as well as the likelihood that the skill will be implemented when compared to didactic methods. These approaches have been shown to be successful with regard to the use of professional medical interpretation. However, the use of simulation often requires a significant amount of resources and time expenditure (e.g., with standardized patients or lengthy simulations).

In contrast to the above methods, this workshop focuses on practical skills that can be taught by anyone in the health care field, and the content is appropriate for anyone who works with LEP patients and families. In addition, a workshop format provides other advantages over web-based curricula and standardized simulation. For example, a workshop can be easily customized according to the resources available at a given institution, making the content more relevant to the audience. Finally, the workshop format carries the unique capacity to break the culture of underutilization, as it encourages multidisciplinary recognition of the importance of medical interpretation among colleagues, facilitates discussion of common challenges facing health care workers when caring for LEP patients, and promotes the identification of viable solutions within the unique clinical context of a particular institution. This workshop has been designed to be an adaptable method for teaching health care workers the skills needed to access and appropriately use professional medical interpretation.

Methods

Institutional Review Board Approval
This study was submitted for review by the Stanford Institutional Review Board and was determined not to meet the definition of human subject research (Protocol Number: 45076, approval date: January 30, 2018).

Facilitators

The workshop was facilitated by eight presenters (two residents, two fellows, two faculty members, and two fellowship coordinators). Facilitators had prior experience with medical interpretation and reviewed the workshop activities. The number of facilitators per workshop was chosen to target a ratio of four to seven participants to one facilitator. Because each facilitator was familiar with different segments of the workshop, any member of the facilitator group was able to lead a particular activity if others were unavailable. This shared responsibility among the team effectively encouraged consistency, flexibility, and accountability.

Target Audience

This workshop was intended to be held within groups of health care workers, including but not limited to physicians, nurse practitioners, physician assistants, nurses, nursing assistants, pharmacists, physical/occupational/speech therapists, respiratory therapists, medical residents, and medical students.

Workshop

The workshop lasted approximately 90 minutes. At the start, participants were divided into small groups, and the lead facilitator briefly discussed the workshop’s learning objectives (see Appendix A). The lead facilitator then introduced the warm-up activity (see Appendix B), an activity designed to highlight how hard it was to complete a task in a foreign language. At the conclusion of the activity, the group was asked to discuss reactions to the activity.
In the following segment of the workshop, participants were asked to silently read the case scenario and associated questions (included in Appendix C) and then to discuss their answers to the questions within their small groups. After discussion in small groups, the floor was opened for individuals to share salient points that had arisen in their respective group discussions. The experienced facilitators were adept at highlighting themes and major points that emerged from group discussion.

Following discussion of the case scenario, participants attended three different stations (each focused on a different type of interpretation) with their small groups (ideally four to seven people with each facilitator). An equal amount of time was allotted for each group to practice role-play activities involving in-person interpretation, video interpretation, and phone interpretation (Appendix C). One facilitator was assigned to each interpretation modality, and facilitators rotated between the three stations from workshop to workshop to make each discussion more dynamic. As in previous segments, facilitators allowed the discussion to flow naturally based on the role-play and highlighted key points as they arose.

After the three small-group interpretation scenarios, participants came together to discuss their reactions to the activities. This discussion provided an excellent transition to discussing key take-home points that had emerged throughout the session. During this discussion, participants were asked to think about and/or share steps they planned to take to change their own practice (e.g., distributing resources, modeling behaviors, creating training sessions). Participants were also provided with index cards to document their individual goals. The cards were collected and mailed back to the participants 2-4 weeks later as a reminder.

Evaluation
As the workshop concluded, participants were asked to complete the anonymous postworkshop evaluation (Appendix D), which was used to evaluate the effectiveness of the workshop.

Time Line and Materials
The workshop time line (with materials) is as follows:

- Workshop preparation.
  - Materials to print/review prior to workshop:
    - Facilitator packet (Appendix A): includes instructions for the leading warm-up activity as well as instructions for each station. Facilitators should review the packet prior to the workshop and print it for themselves if needed.
  - Activity supplies and instructions (Appendix B): one copy of Appendix B and one set of colorful markers for each small group. Markers should be laid out on tables prior to the workshop. The facilitator distributes instructions one page at a time.
  - Participant packet (Appendix C): one copy for each participant. Includes agenda, case scenario, questions for each station, and important take-home points.
  - Additional props: role-play labels for each station, phone(s), tablet(s).
  - Workshop evaluation (Appendix D): one copy for each participant.
- Brief introduction to the subject matter and learning objectives (5 minutes).
  - Materials: agenda in facilitator and participant packets (Appendices A and C, respectively).
- Warm-up activity (10 minutes).
  - Materials: Appendix B.
- Discussion of case scenario (10 minutes).
  - Materials: case scenario in facilitator and participant packets (Appendices A and C, respectively).
- Role-plays at three different stations: in-person, phone, and video interpretation (45 minutes).
  - Materials for in-person station: role-play signs or name tags.
  - Materials for phone station: phone as a prop.
  - Materials for video station: tablet as a prop.
- Large-group discussion focused on challenges, take-home points, and goal setting (15 minutes).
  - Materials: index cards, pens, group discussion questions in facilitator and participant packets (Appendices A and C, respectively).
- Postworkshop evaluation (5 minutes).
  - Materials: workshop evaluation (Appendix D).

Results
This workshop was presented at six academic conferences, including three local conferences (2018 Stanford Diversity and Inclusion Forum, 2018 Stanford Innovations in Medical Education Conference, and 2018 Interpreter and Translator International Week at Stanford University), one regional conference (2018 Academic Pediatric Association Western Regional Conference), and two national conferences (2018 Annual Spring Meeting of the Association of Pediatric Program Directors and 2018 Annual Medical Education Conference of the Student National Medical Association). Conferences were selected to maximize practice with the workshop as well as exposure to different types of
learners. Participants in the workshop included a diverse mix of health care workers (staff, students, residents, faculty), and we collected 53 postworkshop evaluations (results summarized in Table 1).

As shown in Table 1, the large majority of participants reported that the workshop met the learning objectives, represented a valuable use of time, and included useful handouts. In addition, 90% of participants reported that the information shared in the workshop would be applied to their medical practice.

We asked participants to provide written responses to indicate changes they planned to implement as a result of the workshop, and a number of compelling themes emerged from these comments (summarized in Table 2). After attending the workshop, many participants shared ways in which it would change their own practice (e.g., assessing the language needs of their patients, paying attention to their position and eye contact when using an interpreter, using teach-back strategies when appropriate). In addition, a number of participants expressed their intention to use content and resources gleaned from the workshop as the starting point for improving education on interpreter use for trainees and colleagues at their home institution. Taking this intention one step further, a number of participants expressed the desire to change the infrastructure surrounding use of professional medical interpretation. For example, one participant endorsed the intent to have “continued discussion with division about using interpreters on FCR [family-centered rounds].” and another participant shared the commitment to “fight for the quality of care for limited English speakers.”

When asked to indicate what barriers might prevent them from applying what they had learned at the workshop, participants frequently mentioned time (25% of responses), cost/availability of resources (32% of responses), or both (16% of responses).

In addition, a minority of participants mentioned institutional factors such as “institutional pushback/inertia” or “push-back from providers.”

### Discussion

**Contribution to Existing Literature**

We developed and implemented a workshop to teach best practices of using professional medical interpretation to health care workers. This workshop was presented at local, regional, and national academic conferences and was well received by participants from diverse clinical backgrounds. Feedback from participants indicated that the workshop fills an important gap in medical education and provides a comprehensive orientation to interpretation resources and best practices. While prior studies have focused on teaching medical interpretation within departmental silos (e.g., medicine,11-13,16 dentistry17), this workshop is appropriate for anyone in the health care field and encourages multidisciplinary cooperation. Furthermore, while many prior studies have relied on web-based interfaces,11,12 this workshop capitalizes on simulation and role-play while remaining adaptable based on the context of a particular institution.

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**Table 1.** Summary of Learner Responses to Postworkshop Evaluation (N = 53)*

| Statement                                              | No. (%)         | Disagree or Strongly Disagree | Agree or Strongly Agree |
|--------------------------------------------------------|-----------------|-------------------------------|-------------------------|
| Workshop met objectives.                               | 1 (2)           | 51 (98)                       |
| Workshop was a valuable use of my time.                | 1 (2)           | 51 (98)                       |
| Handouts include useful resources.                     | 1 (2)           | 3 (6)                         | 48 (92)                 |
| I will apply information learned today to my practice/department.b | 1 (2)           | 1 (2)                         | 47 (90)                 |

*One learner left all questions blank. This response was not included when calculating percentages.

bTwo learners marked this item as “N/A,” and one learner left it blank. These responses were included when calculating the percentage.

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**Table 2. Summary of Learner Responses to “What Two Things Will You Do as a Result of This Workshop?”**

| Theme                         | Representative Quotes                                                                 |
|-------------------------------|----------------------------------------------------------------------------------------|
| Change in personal practice   | “Be cognizant of positioning of interpreter in room.”                                  |
|                               | “Pay attention to details like positioning and eye contact.”                           |
|                               | “Ask interpreter for best positioning.”                                                 |
|                               | “Be cognizant of suboptimal care in families with limited EP [English proficiency].”   |
|                               | “Make sure interpreter is available when possible.”                                   |
|                               | “Work on recognizing patient needs and preferences when it comes to interpreter interactions.” |
|                               | “Be more cognizant of interpreter needs.”                                             |
|                               | “Be mindful of ‘read-back’ and verifying understanding in my LEP [limited English proficiency] pts.” |
|                               | “Reflect on what can be done as an educator.”                                          |
|                               | “Talk to IS [informational systems] manager about hospital-wide education.”            |
|                               | “Set up learning pods for interpretation.”                                             |
|                               | “Share some of the resources and tip sheets I picked up.”                              |
|                               | “Encourage trainees to use interpreters if not very proficient in language.”           |
|                               | “Organize a similar session for our residents.”                                       |
|                               | “Create our own workshop with our interpreters being the teachers.”                   |
|                               | “Do a lunch and learn/Grand Rounds on medical interpreting.”                           |
|                               | “Think about system level changes.”                                                    |
|                               | “Clinic Quality Improvement in interpretation services.”                               |
|                               | “Continued discussion with division about using interpreters on FCR [family-centered rounds].” |
|                               | “Improve the training offered to providers.”                                           |
|                               | “Advocate for interpreter services.”                                                   |
|                               | “Fight for the quality of care for limited English speakers.”                          |

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Workshop Iterations
In the course of giving this workshop to various audiences, we learned several lessons to maximize its benefit. Introductory material was added to the participant packet to maximize benefit for participants with less experience working with medical interpreters. For more experienced audiences, we learned to draw from the cumulative experiences of the group for a richer discussion of real-life clinical scenarios and challenges. We also edited the case scenario and role-play to decrease the amount of text and increase participant interaction.

Limitations
The modalities explored within this workshop (in-person, video, and phone interpretation) may not be available at every institution or practice setting, which may limit generalizability between settings. However, at least one type of interpretation modality is usually available in a given setting (phone interpretation being most common), and this workshop provides a foundation for accessing and using available resources, which is often a significant rate-limiting step for health care workers. In addition, because this workshop was developed by pediatric providers, the cases and scenarios are weighted towards pediatrics. However, the basic principles within each scenario are consistent between pediatric and adult medicine. Finally, the tool used to evaluate the workshop is limited in scope and does not assess participant responses based on their clinical background or prior exposures to medical interpretation.

Future Directions
Because of the dynamic nature of the workshop, the content is best explored in small groups with a low learner-to-facilitator ratio to allow active engagement in all activities. One of the barriers we encountered when running the workshop was finding enough facilitators to achieve a low learner-to-facilitator ratio. To overcome this challenge in the future, we plan to expand potential facilitators to include anyone in the health care field who has experience with medical interpretation. Training a multidisciplinary group of facilitators has the dual advantage of augmenting the sustainability of the workshop and enabling widespread institutional change. In addition, future investigation will assess the impact of this workshop on provider practice.

Conclusions
We successfully developed an effective workshop to help health care workers from diverse clinical backgrounds improve the use of professional medical interpretation. This workshop empowers health care workers to provide excellent communication and care to patients and families with LEP. Implementation of this workshop and others like it on a national scale is an essential step in addressing and potentially ameliorating disparities in the care received by patients and families with LEP.

Appendices
A. Facilitator Packet.docx
B. Activity Supplies and Instructions.docx
C. Participant Packet.docx
D. Postworkshop Evaluation Form.docx
All appendices are peer reviewed as integral parts of the Original Publication.

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Prior Presentations
Rice K, Del Valle Mojica C, Cueto V, et al. Empowering providers to improve the care of families with limited English proficiency. Workshop presented at: Academic Pediatric Association Western Regional Conference; January 28, 2018; Monterey, CA.

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Jones J, Rice K, Del Valle Mojica C, et al. Empowering trainees to care for patients and families with limited English proficiency. Workshop presented at: Annual Spring Meeting of the Association of Pediatric Program Directors; March 23, 2018; Atlanta, GA.

Cueto V, Del Valle Mojica C, Jones J, et al. Working with interpreters to improve the care of patients and families with limited English proficiency. Workshop presented at: Annual Medical Education Conference, Student National Medical Association; March 29, 2018; San Francisco, CA.

Del Valle Mojica C, Cueto V, Jones J, et al. Empowering providers to improve the care of patients and families with limited English proficiency. Workshop presented at: Stanford Diversity and Inclusion Forum; May 18, 2018; Palo Alto, CA.

Cueto V, Del Valle Mojica C, Jones J, et al. Working with interpreters to improve the care of patients and families with limited English proficiency. Workshop presented at: Stanford Innovations in Medical Education Conference; June 2, 2018; Palo Alto, CA.

Rice K, Jones J, Stawitcke M, et al. Working with interpreters to improve the care of patients and families with limited English proficiency. Workshop presented at: Interpreter and Translator International Week at Stanford University; September 26, 2018; Palo Alto, CA.

Ethical Approval
The Stanford Institutional Review Board approved this study.

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