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Teaching medicine to non-English speaking background learners in a foreign country.

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Teaching abroad exposes medical educators to unfamiliar teaching methods and learning styles that can enhance their overall teaching repertoire. Based on the author’s experience teaching residents for one month at a community hospital in Japan and a review of the non-English speaking background (NESB) educational literature, pedagogical principles and lessons for successful international NESB instruction are outlined. These methods include understanding the dissimilar linguistic, cultural, and academic backgrounds of the learners, emphasizing pace and clarity of speech, presenting a conceptual framework instead of detailed discourse on subjects, and regular visual reinforcement of spoken words. The limitations introduced by the language barrier and the use of interpreters are briefly discussed. As society and institutions of higher learning become more global and multicultural, clinician–educators may benefit from teaching in other countries in order to enhance their teaching skills with NESB learners, both abroad and in their own institutions.

KEY WORDS: Non-English speaking background; English as a second language; Medical education; International teaching.

INTRODUCTION

International teaching provides clinician–educators an opportunity for professional development and cultural immersion. The experience also exposes medical educators to new teaching methods and learning styles that can enhance their overall teaching repertoire. Language and communication issues are understandably principal concerns when contemplating a foreign teaching assignment.

The opportunity to teach medical residents in another country gave me a better understanding of the challenges that non-English speaking background learners face during English instruction. This experience prompted me to reflect upon which teaching strategies were most effective and to study the non-English speaking background (NESB) and English as a second language (ESL) literature. Although my observations come from a single center in Japan, my research and advice is meant to serve as a guide for clinician–educators who are contemplating international teaching assignments worldwide.

TEACHING CONTEXT

I was invited to teach for one month at a 419-bed community hospital in Chigasaki, Japan where 23 residents train in a 2-year program analogous to a transitional internship year in the United States. I provided instruction in English in lectures and case conferences and on rounds in the medical inpatient ward, intensive care unit, and emergency department.

In Japan, students study English for six to eight years before residency, with greater emphasis on written rather than conversational English. Most Japanese medical students and residents use Japanese textbooks; a minority read English texts and articles regularly. There is increasing use of English Internet resources including PubMed and UpToDate, and English journal articles are commonly discussed. I observed a spectrum of spoken English proficiency among the residents, and there were usually one or more highly capable physician interpreters in any group setting.

The added cognitive load of a second language while learning medicine should not be underestimated. I have great admiration for the residents who deciphered the medical lexicon of a foreign language while simultaneously processing the facts and reasoning strategies of their new profession. An analogy would be American residents, many of whom have studied a foreign language such as Spanish for years, trying to learn from an exclusively Spanish-speaking professor during their first months of internship.

TEACHING PRINCIPLES

Adapt to the local educational culture. A divergent method of instruction may be counterproductive or suboptimal in a culture that learns and processes information differently. My initial resources for advice about local pedagogy were faculty at my university who had taught in Japan and conversations with visiting Japanese physicians. In Japan I made educational styles an early topic of conversation and closely observed the teaching style of the local faculty.

The Japanese educational system emphasizes didactic lectures and diligent study of written material with less instruction using interactive questioning and analytical reasoning. I, therefore, provided a lecture-based curriculum but also used interactive techniques (particularly directed questioning) during didactic sessions and bedside rounds. I regularly...
recalibrated this hybrid approach with feedback from the faculty and the chief resident. Questions from the residents, typically after class, were the clearest indicator of learner engagement.

**Speak clearly and slowly.** Listening is a demanding task that limits complete understanding for some NESB students. Unlike reading, where the learner can control the pace of information and reflect, listening requires several additional cognitive steps for comprehension, including distinguishing similar sounding words, analyzing stress and intonation, and deciphering colloquialisms. One study of Japanese students demonstrated increased comprehension with a slower English speech rate, which facilitates native-language reprocessing and note taking. A colleague with extensive international teaching experience gave me the following advice: If you are not aware that you are speaking slowly, then it is not slow enough.

It is advisable to choose the most straightforward words. Even when “listless” best describes the patient, phrases such as “very tired” will minimize uncertainty. It is imperative to avoid idiomatic, jargon, or slang English. Phrases like “the bottom line” or “start from scratch” lack meaning for many NESB learners and can be distracting. Emphasis on enunciation—which brings both clarity and a decrease in speech rate—is advisable. Contractions like “can’t” or “haven’t” are easily confused with “can” and “have.”

**Less is more.** A common teaching mistake is presenting too much information. When I taught hypercalcemia, by necessity of “Less is more.”

Challenges posed by the language barrier. Optimal communication and understanding require language fluency whereas a partial language barrier creates impediments to teaching that are not easily circumvented. It can be difficult to share anecdotes, mistakes, or humor, which sometimes make for the most enduring lessons. I was unable to model histology taking at the bedside with patients. I regret not using resident names earlier for fear of mispronunciation and thereby foregoing stronger teacher–learner bonds. Finally, the language (and cultural) divide made receiving constructive feedback from the residents difficult.

When the message was nuanced or critical, I worked with a physician–interpreter. For example, when clinical features subtly supported or refuted a diagnosis, carefully chosen words were essential. Use of an interpreter slowed the pace of the session, but in return I saw polite attention transform into genuine understanding. Detailed considerations for collaborating with interpreters in international teaching venues have been discussed elsewhere.

**CONCLUSION**

International teaching is a valuable professional development experience which enhances a medical teacher’s pedagogical skills. It should not be overlooked that clinical skills, the underlying currency of the clinician–educator, will also grow in
an environment with disproportionate exposure to interesting cases and ample time to learn new diseases, diagnostic approaches, and management strategies.

The trend toward an increasingly multicultural and global society will bring more NESB learners to English instruction classrooms and clinics and will send more English-speaking teachers and students into foreign medical education systems. Proficiency in these teaching approaches and an understanding of the different linguistic, cultural, and academic backgrounds of NESB learners will be increasingly important for clinician-educators.

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