The Development of an Educational Video Library to Improve Medical Student Clinical Competency Regarding Caring for People with Intellectual/Developmental Disabilities

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Specific Educational Aims
1. Develop a comprehensive, open-source library of educational videos for medical and physician assistant students on topics related to providing care to people with intellectual/developmental disabilities (IDDs). Topics may include, but are not limited to, how to provide appropriate accommodations in the medical setting, how to use alternative communication strategies, and how to employ supported decision making in a clinical environment. These videos will be designed, produced, and filmed in partnership with individuals with IDDs.
2. Pilot educational videos during the Q6 “Transition to Clerkships: Caring for patients with IDD” Practice of Medicine (POM) session and other IDD-related curriculum sessions.
3. Disseminate an open-source library of educational videos.

This project will provide an opportunity for collaboration between Stanford Medicine and community organizations that serve people with IDDs. The co-PIs both have long-standing relationships with Special Olympics Northern California and have already worked extensively with the organization on educational opportunities for students at Stanford Medicine. We will work with Special Olympics Northern California to ensure that people with IDD are involved at every stage of this project. This project will also ensure that the medical school curriculum addresses biases students may have towards individuals with IDD and will help ensure they are able to care for a diverse patient population (one that will undoubtedly include individuals with IDD). Developing an educational video library will also ensure that recent efforts to improve the quality of medical education related to people with IDD at Stanford can be sustained for future students. These open-source videos will also be shared with other institutions, increasing the impact of the work that is currently being done at Stanford.

Project Rationale
An estimated 1% of individuals have an IDD\(^1\), and this population is at an increased risk of poor physical and mental health.\(^2\) Despite this, there is very little, if any, time in medical school devoted to educating students on how to provide care to people with IDDs.\(^3\) This has resulted in medical students, residents, and physicians not only lacking confidence in their ability to provide medical care to people with IDDs but also wanting additional training on this subject.\(^4,5\) And while a few training programs related to caring for people with IDDs have been developed\(^6,7\), there is a lack of educational material designed for students.

Over the past two years at Stanford, Lauren Clarke and Dr. Holly Tabor have pushed to promote the inclusion of people with IDD within the medical school curriculum. During the 2021-2022 AY, people with IDDs participated in three mandatory POM sessions (one in Q1, one in Q2, and one in Q6), and these sessions have been received very favorably by students. With the development of an educational video library, we can cover additional topics, such as showing examples of physical exam accommodations, that would not be possible to display in a larger classroom setting. These videos will therefore allow us to expand the existing curriculum related to IDD at Stanford and ensure that these curriculum changes are sustained in future years.
Approach
A comprehensive set of educational videos for medical and physician assistant students on topics related to providing care to people with IDD will be developed as outlined in Aim 1. Before production of the videos, Lauren and Dr. Tabor will meet with individuals with IDD and discuss what topics they think should be addressed in this library. Some topics of interest have already come up in focus groups as a part of Dr. Tabor’s Patient-Centered Outcomes Research Institute (PCORI) IDD-Transform grant. We will also review pre/post survey data that was collected following the Spring 2022 Q6 POM session on IDD to identify potential knowledge gaps amongst Stanford medical students that should be addressed in these videos. Following the selection of video topics, we will work with individuals with IDD to develop a script/plan for the video and recruit individuals with IDD to serve as actors in the videos. We will then collaborate with EdTech at Stanford to develop the library of educational videos. Following the creation of the videos, we will incorporate them within the POM sessions related to IDD.

Lauren and Dr. Tabor are uniquely positioned to lead this project. Lauren is a dual MD/MA in Education student, has experience working in specialized clinics for adults with IDD, and has taken coursework related to EdTech and curriculum development. Dr. Tabor is a parent of a child with an IDD and is currently leading a PCORI grant related to improving care for adults with IDD. She has also taught pre-clerkship medical students at Stanford for the past five years. Both Lauren and Dr. Tabor have long-standing relationships with Special Olympics Northern California and are in close contact with their Director of Health and Wellness, who is in support of the proposed project.

Timeline and Plan for Implementation
- **October 2022 - November 2022:** (1) Conduct meetings with individuals with IDD and identify list of topics to be covered in educational videos. (2) Develop content plan for educational videos.
- **December 2022 - April 2023:** (1) Create video library. (2) Pilot video library during the Q6 “Transition to Clerkships: Caring for patients with IDD” POM session. (3) Collect survey data from students as part of the Q6 POM session assessment.
- **May 2023 - July 2023:** (1) Disseminate open-source video library. (2) Prepare manuscript.

Anticipated Work Product
- An open-source library of educational videos focused on topics related to caring for people with IDD. Individuals with IDD will be featured in these videos. These videos will be a mix of didactic lectures and demonstrations of clinical skills.
- Dissemination of educational videos on platforms such as MedEdPORTAL.

Evaluation Plan
Students will complete a survey on their satisfaction regarding the videos as part of the “Transition to Clerkships: Caring for patients with intellectual and developmental disabilities” Q6 POM session.

Dissemination of Results
The videos created through this project will be made available online on a platform such as MedEdPORTAL.
References


