Democratizing type 1 diabetes specialty care in the primary care setting to reduce health disparities: project extension for community healthcare outcomes (ECHO) T1D

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ABSTRACT

Introduction Project ECHO (Extension for Community Healthcare Outcomes) is a tele-education outreach model that seeks to democratize medical knowledge to reduce disparities and improve health outcomes. Limited utilization of endocrinologists forces many primary care providers (PCPs) to care for patients with type 1 diabetes (T1D) without specialty support. Accordingly, an ECHO T1D program was developed and piloted in Florida and California. Our goal was to demonstrate the feasibility of an ECHO program focused on T1D and improve PCPs’ abilities to manage patients with T1D.

Research design and methods Health centers (ie, spokes) were recruited into the ECHO T1D pilot through an innovative approach, focusing on Federally Qualified Health Centers and through identification of high-need catchment areas using the Neighborhood Deprivation Index and provider geocoding. Participating spokes received weekly tele-education provided by the University of Florida and Stanford University hub specialty team through virtual ECHO clinics, real-time support with complex T1D medical decision-making, access to a diabetes support coach, and access to an online repository of diabetes care resources. Participating PCPs completed pre/post-tests assessing diabetes knowledge and confidence and an exit survey gleaning feedback about overall ECHO T1D program experiences.

Results In Florida, 12 spoke sites enrolled with 67 clinics serving >1000 patients with T1D. In California, 11 spoke sites enrolled with 37 clinics serving >900 patients with T1D. During the 6-month intervention, 27 tele-education clinics were offered and n=70 PCPs (22 from Florida, 48 from California) from participating spoke sites completed pre/post-tests assessing diabetes care knowledge and confidence in diabetes care. There was statistically significant improvement in diabetes knowledge (p≤0.01) as well as in diabetes confidence (p<0.01).

Conclusions The ECHO T1D pilot demonstrated proof of concept for a T1D-specific ECHO program and represents a viable model to reach medically underserved communities which do not use specialists.

Significance of this study

What is already known about this subject?

► As a result of multifaceted barriers surrounding utilization of endocrinologists, many patients with type 1 diabetes (T1D) see primary care providers (PCPs) for support in managing their diabetes instead of specialists.

What are the new findings?

► PCPs demonstrated a statistically significant increase in diabetes knowledge and confidence by participating in the Project ECHO (Extension for Community Healthcare Outcomes) T1D pilot.

► This pilot demonstrates the feasibility of a T1D-specific ECHO program and the successful recruitment of PCPs from Federally Qualified Health Centers.

How might these results change the focus of research or clinical practice?

► The ECHO T1D program can address the needs of underserved T1D communities that do not regularly use specialty care.

INTRODUCTION

In the USA, approximately 1.6 million people have type 1 diabetes (T1D).1 The American Diabetes Association (ADA) recommends multidisciplinary care for people with T1D, but not all people with T1D are able to regularly use care at diabetes specialty centers due to a variety of factors including distance from a center, lack of sufficient diabetes specialists, and financial issues.2–5 Furthermore, data from the T1D Exchange indicate that only 17% of youth and 21% of adults with T1D seen at diabetes specialty centers meet the
ADA hemoglobin A1c (HbA1c) goals. A report based on insurance claims data suggests that HbA1c values may be higher in adults with T1D who do not receive care at diabetes specialty centers. In particular, disparate health outcomes are pronounced for T1D communities from low socioeconomic status households and for racial and ethnic minority groups. These differences have been magnified in the COVID-19 pandemic. Recent research with underserved communities with type 1 diabetes (T1D) demonstrates that negative encounters with endocrinologists and associated feelings of stigma are an additional barrier to receiving preventative endocrinology care. Given the multifaceted barriers responsible for underutilization of endocrinology care, novel programs to improve health outcomes are needed to reach people with T1D, especially those from medically underserved communities.

One such tele-education model is the Extension for Community Healthcare Outcomes (ECHO), which was developed to improve access to care for underserved populations with complex health problems. ECHO is a ‘hub-and-spoke’ model of education and guided practice, which leverages videoconferencing technology to connect specialists with learners across geographic distances. To address the identified need to improve care for people with T1D who are not seen at diabetes specialty centers, we developed the ‘Project ECHO T1D’ tele-education clinic adapted from the Project ECHO model in collaboration with community primary care providers (PCPs) who care for people with T1D at non-specialty diabetes practices across the states of Florida (FL) and California (CA).

Our specific aims in this pilot and feasibility study were: (1) demonstrate proof of concept for adaptation of the Project ECHO model to include adult and pediatric patients with T1D in CA and FL; and (2) increase the capacity of PCPs to empower and safely and effectively manage underserved patients with T1D who do not receive routine specialty care.

METHODS
A preliminary needs assessment was conducted in FL and CA prior to program implementation including surveys with PCPs and focus groups with medically underserved adults with T1D. Surveys with PCPs were designed to better understand barriers for T1D care delivery in primary care settings. Publicly available statewide provider directories in FL and CA were used for PCP survey recruitment. Participants received a $25 gift card for survey completion. Focus groups were also conducted with adults 18 years and older with T1D who met selection criteria including: (1) hospitalized in the past year for diabetic ketoacidosis or (2) received routine care at a Federally Qualified Health Center (FQHC) or (3) have HbA1c >9% and ‘no showed’ to two consecutive endocrinology visits. Focus groups lasted 1 hour and used a standard script to glean information about barriers related to T1D care. Participants were compensated $65 for their time.

Data from the initial needs assessment with n=123 PCPs in FL and CA indicate that there are critical knowledge gaps in areas such as diabetes technology; for example, continuous glucose monitoring (CGM) or CGM and insulin pumps. Data from 16 focus groups conducted in English and Spanish with n=86 medically underserved adults with T1D reiterated the need for provider education focused on diabetes technology, as focus group participants listed provider-level factors related to obtaining diabetes technology as one of the greatest barriers to achieving optimal health in T1D. Findings from these preliminary efforts aided in curriculum development for the weekly tele-education ECHO clinics as well as the development of priority areas for the Diabetes Support Coaches to focus on for patient engagement.

On completion of the needs assessment, health centers (ie, ‘spokes’) providing care for medically underserved communities were strategically recruited for Project ECHO T1D by: (1) focusing on FQHGs and (2) the use of the Neighborhood Deprivation Index (NDI) and provider geocoding. Covered under the Consolidated Health Center Program of the Social Security Act, FQHGs in the USA provide primary care services to underserved areas and must adhere to stringent guidelines including never turning patients away based on insurance status, and, providing care on a sliding scale based on ability to pay. To identify high-need geographic catchment areas in FL and CA, the NDI was used in conjunction with geocoding of PCPs and endocrinologists in each state to concurrently identify areas with low endocrinology provider density and high health risk/poverty areas. Spokes recruited for participation received an one-time stipend of $1200–$2500 to participate in the Project ECHO T1D pilot for 6 months and to identify a ‘champion’, that is, the lead PCP to represent their health center in the program.

The Project ECHO T1D intervention
Participating spokes received weekly tele-education through the use of Zoom (Zoom Video Communications, San Jose, California, USA), real-time access to support from the multidisciplinary ‘hub’ team (endocrinologists, behavioral health specialists, dietitians, etc) with complex medical decision-making, access to a Diabetes Support Coach, and access to an online repository of recorded tele-education ECHO clinics and other diabetes resources for PCPs. Figure 1 shows the Project ECHO T1D hub-and-spoke model, and online supplemental appendix A includes a listing of all participating members. Prior to the launch of Project ECHO T1D, spokes attended a ‘kickoff’ orientation event in each respective state designed to foster rapport building with the hub team and community partners and to outline expectations for program participation. In keeping with the Project ECHO model established by the University of New Mexico (UNM), weekly tele-education sessions...
included a 20–30 min learning didactic on diabetes care followed by one or two de-identified case presentations by the spokes. Participating providers received continuing medical education (CME) credits for attending tele-ECHO sessions and completed weekly CME evaluations. Additionally, they completed pre/post-test surveys administered via REDCap (Research Electronic Data Capture) prior to and after the 6-month intervention assessing knowledge (using 11 multiple-choice test questions) and confidence (using 27 questions with a 4-point Likert scale response set ranging from ‘not at all confident’ to ‘extremely confident’) in diabetes care.

Outside of tele-ECHO clinics, participating spokes had access to the hub team when faced with complex real-time T1D care questions. Spokes were provided with direct contact numbers (ie, cell phone access) for each hub team member and provided with a call list denoting whom to contact for different types of diabetes-related questions. Each ‘real-time’ support contact by a spoke was tracked to document the types of issues the spokes faced, the hub team member that responded, and how the issue was resolved. Spokes were also given access to a Diabetes Support Coach for engagement of patients with T1D. Diabetes Support Coaches hold invaluable expert knowledge as they live with diabetes themselves or have a family member with diabetes, and are local to the geographic catchment areas they serve. This unique role combines a traditional community health worker (CHW) role with peer support models. Diabetes Support Coaches complete standardized training in health coaching from the University of California San Francisco’s Center for Excellence in Primary Care, receive Diabetes Paraprofessional Level 1 certification through the Association of Diabetes Care and Education Specialists, and have access to the ADA’s CHW membership and toolkits. Diabetes Support Coaches offer one-on-one peer support for interested patients, create local resource guides for diabetes management, host community events, disseminate information about technologies like CGM, and assist with appointment reminders and other engagement activities. Patient encounters with Diabetes Support Coaches were documented in REDCap.

Surveys and data collection were facilitated through the REDCap research tool. All data management and analytics were conducted using SAS V.9.4. Descriptive statistics were computed for key outcomes and statistical significance evaluated with a predetermined threshold of $\alpha=0.05$. Categorical data are presented n (%), and continuous data were summarized median (IQR), due to skewedness. Wilcoxon signed-rank test was used to evaluate differences in knowledge and confidence scores among PCPs from pre-test to post-test.

**RESULTS**

In FL, 12 spoke sites enrolled with 67 clinics serving >1000 patients with T1D. In CA, 11 spoke sites enrolled with 37 clinics serving >900 patients with T1D. During the 6-month intervention, 27 tele-education clinics were offered and of 92 queried, 70 PCPs (22 from FL, 48 from CA) from participating spoke sites responded to both pre-test and post-test surveys assessing diabetes care knowledge and confidence in diabetes care. There was a statistically significant improvement in diabetes care, with a decrease in the number of diabetes-related questions asked by spokes and an increase in the number of diabetes-related questions answered by spokes from pre-test to post-test.
knowledge (median: 1.0 IQR: (0.0–2.0), p=<0.01) among the 56 providers completing the full question set (ie, without skipping any questions). Additionally, change in diabetes confidence evaluated on a 4-point Likert scale was positive and statistically significant among the 41 completing all questions for both pre-test and post-test (median: 0.6, IQR: (0.3–0.9), p=<0.01) (figures 2 and 3). Exit surveys were also completed by PCPs with 95% of (n=65 responding) participants reporting they would recommend Project ECHO T1D to a colleague and 63% (n=68 responding) reporting that what they learned in tele-ECHO clinics resulted in changes in their T1D medical practices (with diabetes technology changes most commonly cited). Overall, exit surveys with PCPs indicated high levels of satisfaction with Project ECHO T1D (table 1).

In FL, five Diabetes Support Coaches were hired to work with participating spokes and six were hired in CA. Collectively, the Diabetes Support Coaches spearheaded 23 social events for communities with T1D at participating spoke locations (mean attendance in FL 38 per event, and 5 in CA). Diabetes Support Coaches created local T1D resource guides in Spanish and English for all spokes including critical information on insulin assistance programs, food insecurity resources, and local/national T1D support programs for behavioral health and social network support. The Diabetes Support Coaches worked one-on-one with a total of 124 patients with T1D (82 in FL, 42 in CA) that signed ‘peer support contracts’.

Patients opted to receive intensive, weekly outreach from their coach via text, phone calls and in-person visits. Over this period, Diabetes Support Coaches facilitated 795 outreach interactions with enrolled patients in FL, and 605 in CA. Table 2 shows the types of concerns expressed by patients with T1D working with Diabetes Support Coaches during the 6-month pilot.

CONCLUSIONS

The Project ECHO T1D pilot successfully established feasibility of a T1D-specific ECHO and demonstrated significant improvement in diabetes knowledge and confidence for participating PCPs. To our knowledge, we were the first Project ECHO program to strategically recruit using a dual focus on FQHCs and using the NDI with provider geocoding. By including targeted recruitment methods to identify spokes delivering care to medically underserved communities, the Project ECHO T1D pilot program reached PCPs in critical need of resources to help offset pronounced health disparities in the communities they serve. Feedback from the PCPs also indicates the participants found the program a worthy investment of their time both in terms of the quality of content presented in tele-ECHO clinics and through the provision of a Diabetes Support Coach for patient engagement.

Given that ECHO T1D was a pilot and feasibility project, one of the major limitations is an inadequate ability to document the impact of this intervention on patient-level outcomes. While we focused on provider-level outcomes like acquisition of diabetes knowledge and confidence, a foundational assumption guiding the Project ECHO model is that there is a benefit to medically underserved patients. The current, expanded implementation of our ECHO program now includes a rigorous evaluation of patient-level outcomes that requires longer duration of time and systematic approach (ie, stepped-wedge trial design) that was not possible with our pilot. It is important to note that as the Project ECHO model is increasingly used nationally and internationally with implementation particulars varying widely across settings, discussions about evaluating the impact of these programs are paramount.

With the devastating impact of COVID-19 for minority and underserved communities revealing longstanding and systemic inequality in the USA, there has never

Figure 2 Diabetes knowledge acquisition change. Median: 1.0 IQR: (0.0–2.0), p value: 0.0003. ECHO, Extension for Community Healthcare Outcomes.

Figure 3 Diabetes confidence change. Median: 0.6 IQR: (0.3–0.9), p value: <0.0001. ECHO, Extension for Community Healthcare Outcomes.
<table>
<thead>
<tr>
<th>Table 1</th>
<th>ECHO T1D post-pilot PCP feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Please evaluate how much you agree or disagree with the following statements:</strong></td>
<td></td>
</tr>
<tr>
<td>n=92 (41 FL) (51 CA)</td>
<td>Strongly agree</td>
</tr>
<tr>
<td>68</td>
<td>50 (73.5)</td>
</tr>
<tr>
<td><strong>As a result of attending this activity:</strong></td>
<td></td>
</tr>
<tr>
<td>n</td>
<td>Strongly agree</td>
</tr>
<tr>
<td>66</td>
<td>32 (48.5)</td>
</tr>
<tr>
<td><strong>Please evaluate the following statements:</strong></td>
<td></td>
</tr>
<tr>
<td>n</td>
<td>Very effective</td>
</tr>
<tr>
<td>69</td>
<td>27 (39.1)</td>
</tr>
<tr>
<td>68</td>
<td>33 (48.5)</td>
</tr>
<tr>
<td>68</td>
<td>24 (35.3)</td>
</tr>
<tr>
<td><strong>Please evaluate the following statements:</strong></td>
<td></td>
</tr>
<tr>
<td>n</td>
<td>Much better</td>
</tr>
<tr>
<td>66</td>
<td>19 (28.8)</td>
</tr>
<tr>
<td>67</td>
<td>18 (26.9)</td>
</tr>
</tbody>
</table>

Presented: n (%).
CA, California; CME, continuing medical education; ECHO, Extension for Community Healthcare Outcomes; FL, Florida; N/A, not applicable; PCP, primary care provider; T1D, type 1 diabetes.
Despite the challenges related to evaluation of Project ECHO programs, our pilot demonstrated proof of concept for a T1D-specific implementation and used creative and pioneering efforts at precision spoke recruitment. The success of our pilot’s recruitment efforts represses skepticism that PCPs may not have enough time to participate or interest in T1D because of their already complex patient panels. On the contrary, most participating PCPs indicated that they would recommend the program to a colleague, which demonstrates that they found it to be valuable. By recruiting Diabetes Support Coaches who lived with T1D themselves, we also expanded the traditional role of the CHW promoted by UNM’s Project ECHO model to include a peer support model. These new approaches to T1D care would likely translate to the care of patients with type 2 diabetes (T2D) who use multiple daily injections and other patients with diabetes. This presents a potentially monumental opportunity to expand the Project ECHO model to underserved communities with T2D, which experience many of the same as well as unique disparities in healthcare and outcomes. As COVID-19 continues to reveal longstanding and pervasive inequalities among all people with diabetes in the USA, adaptation of programs like Project ECHO for this patient population will be increasingly vital as PCPs play a critical role in addressing the needs of medically underserved communities which do not use specialists.

Table 2: T1D patient concerns expressed to Diabetes Support Coach

<table>
<thead>
<tr>
<th>Florida</th>
<th>Patient expressed concerns or had questions regarding:*</th>
<th>n=795 patient encounters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medications</td>
<td>464 (58.4)</td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>252 (31.7)</td>
<td></td>
</tr>
<tr>
<td>Exercise</td>
<td>195 (24.5)</td>
<td></td>
</tr>
<tr>
<td>Stress</td>
<td>251 (31.6)</td>
<td></td>
</tr>
<tr>
<td>HbA1c</td>
<td>176 (22.1)</td>
<td></td>
</tr>
<tr>
<td>Blood pressure</td>
<td>17 (2.1)</td>
<td></td>
</tr>
<tr>
<td>Cholesterol</td>
<td>4 (0.5)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>29 (3.7)</td>
<td></td>
</tr>
<tr>
<td>Working with the provider</td>
<td>165 (20.8)</td>
<td></td>
</tr>
<tr>
<td>Using the clinic/resources</td>
<td>207 (26.0)</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>64 (8.1)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>California</th>
<th>Patient expressed concerns or had questions regarding:</th>
<th>n=605 patient encounters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medications</td>
<td>197 (32.6)</td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>197 (32.6)</td>
<td></td>
</tr>
<tr>
<td>Exercise</td>
<td>152 (25.1)</td>
<td></td>
</tr>
<tr>
<td>Stress</td>
<td>189 (31.2)</td>
<td></td>
</tr>
<tr>
<td>HbA1c</td>
<td>77 (12.7)</td>
<td></td>
</tr>
<tr>
<td>Blood pressure</td>
<td>20 (3.3)</td>
<td></td>
</tr>
<tr>
<td>Cholesterol</td>
<td>12 (2.0)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>37 (6.1)</td>
<td></td>
</tr>
<tr>
<td>Working with the provider</td>
<td>173 (28.6)</td>
<td></td>
</tr>
<tr>
<td>Using the clinic/resources</td>
<td>136 (22.5)</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>112 (18.5)</td>
<td></td>
</tr>
</tbody>
</table>

*Multiple areas of concern could be selected per encounter. HbA1c, hemoglobin A1c; T1D, type 1 diabetes.

been a more critical time for innovative T1D programs that not only increase access to care but also improve patient outcomes. Racial, socioeconomic, and geographic disparities persist, and are in some cases widening, in patients’ utilization of diabetes technology, access to endocrinologists and healthcare, overall glycemic control, and risk of mortality.7–14 Results of this pilot study demonstrate that the ECHO T1D program addresses these gaps by equipping more PCPs with the knowledge and resources to support patients with T1D who may not otherwise receive adequate or routine specialty care. Additionally, as the pilot program specifically targets FQHCs in underserved communities, it offers a solution to disparities shaped by patients’ geographic location, race/ethnicity, and socioeconomic status. Furthermore, the usage of Diabetes Support Coaches in ECHO T1D may combat these disparities and offers patients more psychosocial support. Further evaluation of these positions is needed.

Contributors AFW helped design the study, oversaw study operations and wrote the manuscript. DMM, MJH, and NC helped design the study and oversaw all study operations. MJG and SLF aided in study design, had access to data, and conducted data analysis. KKH, SW, LB, JJW, EL, CA-Z, XR, ES, MB, RL, JM, AB, and LF contributed input to the study design, reviewed findings, and provided critical revisions to the manuscript. All authors have reviewed and approved this version of the manuscript. AFW and DMM are the guarantors of this work and, as such, had full access to all the data and take full responsibility for the integrity of the data and the accuracy of the analysis.

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Competing interests None declared.

Patient consent for publication Not required.

Ethics approval This study was approved by the institutional review boards at UF and Stanford.
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