EDICT: Equity in Diabetes Care & Transformation





worker available to help you with that today

Percent with

Often True- 1%

Sometimes True- 4%

More than half the days- 2%

More than half th days- 3%

Several days- 2%;

Several days- 3%;

1%

Positive Response

Next Best document for positive screens



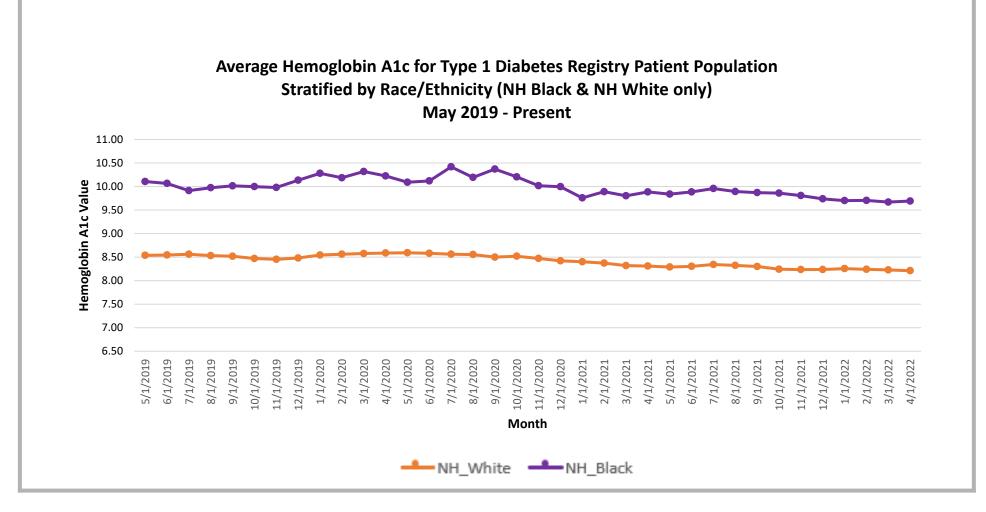
Nana-Hawa Yayah Jones, MD; Sarah Corathers, MD; Amy Grant, DNP, RN, CPN; Jennifer Kelly, RN, BSEd, MSN, APRN; Molly Williams, MSW, LSW; Kyle Kaplan, MPH; Kelsey Hart, DNP, RN, CPHQ; Mona Mansour, MD, MS

Background

Morbidity and mortality in type 1 diabetes (T1D) is grossly marred by key disparities and equity gaps compounded by social determinants of health (SDH): non-medical factors that influence health outcomes.

Nationally, SDH disproportionately burdens racial minorities and those of lower socioeconomic status (SES). Locally, Black T1D youth have higher hemoglobin A1c's (HBA1c), lower rates of diabetes technology use, and higher rates of hospitalizations. The implementation of an SDH screen provides a systematic screening tool to identify vulnerable patients no matter race or SES status.

This project's aim was to increase the percent of T1D patients screened for SDH in diabetes clinic from 0% to 90% by 6/30/2022. We additionally sought to co-develop a patient-centered, collaborative SDH tool to spread hospital-wide in all healthcare conditions.



Theory for Improvement Implementing Social Determinants of Health Screening KDD Project Leader: Nana-Hawa Yayah Jones Revision Date: 7/1/2022 v.7 Interventions (LOR #) Key Drivers Global Aim Note: LOR # = Level of Reliability Number, e.g., LOR 1 Necessary education and trust To reduce the equity building amongst the healthcare Multi-disciplinary clinic (one space at one time) team, patient, and community gaps in care of pediatric Standardized assessment of a patients with type 1 Implementation of paper SDH screen in diabetes patient's healthcare and social diabetes (T1D) clinic (LOR 2) **SMART Aim** Evidence based care and outcome Implementation of electronic SDH screen for Cincinnati Children's Social Risk Questionnaire telehealth visits (LOR 2) Next Best Response We will increase the If not applied for food stamps or not Innovative healthcare team able to Have you applied for Worry food would run out aware of food pantries-- social food stamps? percentage T1D patients Implementation of SDH screen on tablet support patient/families Are you aware of food pantries If food stamp denied, delayed, or Food did not last in your area? screened for social in diabetes clinic (LOR 2) reduced-- legal aid referral determinants of health Felt down, depressed or hopeles Are you experiencing SI/HI today? If yes to SI/HI-- SW consult Proficient and effective use of they would like a list of resources-Felt little interest or pleasure (SDH) in diabetes clinic community resources Implementation of Universal EHR SDH screen ave you contacted that program office to work using an SDH tool from Problems with WIC, SNAP... utilities Legal aid referral (LOR 2) through/resolve the issue? 27% to 90% by June 30, Housing problems landlord is not Comprehensive team-based Have you shared your concerns with your Legal aid referral engagement from payers Tailored & standardized treatment plans for Threatened with eviction or losing dlord/leasing office about these issues? your home identified needs (LOR 1) If they have not contacted Trouble paying for medications iabetes Center vet-- clinic nurse Organized care coordination and vith anyone at the Diabetes Center about this discusses with family and assist <u>Population</u> support across systems Social work referral if needed SDH Champion Nurses (LOR 1) benefits available through your Medicaid Trouble getting to appts or pharm Rideshare options (such as Uber) can be used for emergencies only. Pediatric patients Hospital wide engagement, from If yes-- social work referral Would you like to speak with someone about Bad, sad or scary happened f no-- let family know we are here for with insulin dependent Collaboration with OH Medicaid Managed Care what happened? leadership to frontline them when they are ready diabetes cared for at Organization (MCO) (LOR 2) If yes-- Social work referral. If no-- "I see that you marked Cincinnati Children's Would you like to speak with [whatever positive response], just so Accurate conditions registry for you are aware-- we have a social Hospital Medical Center

Potential intervention

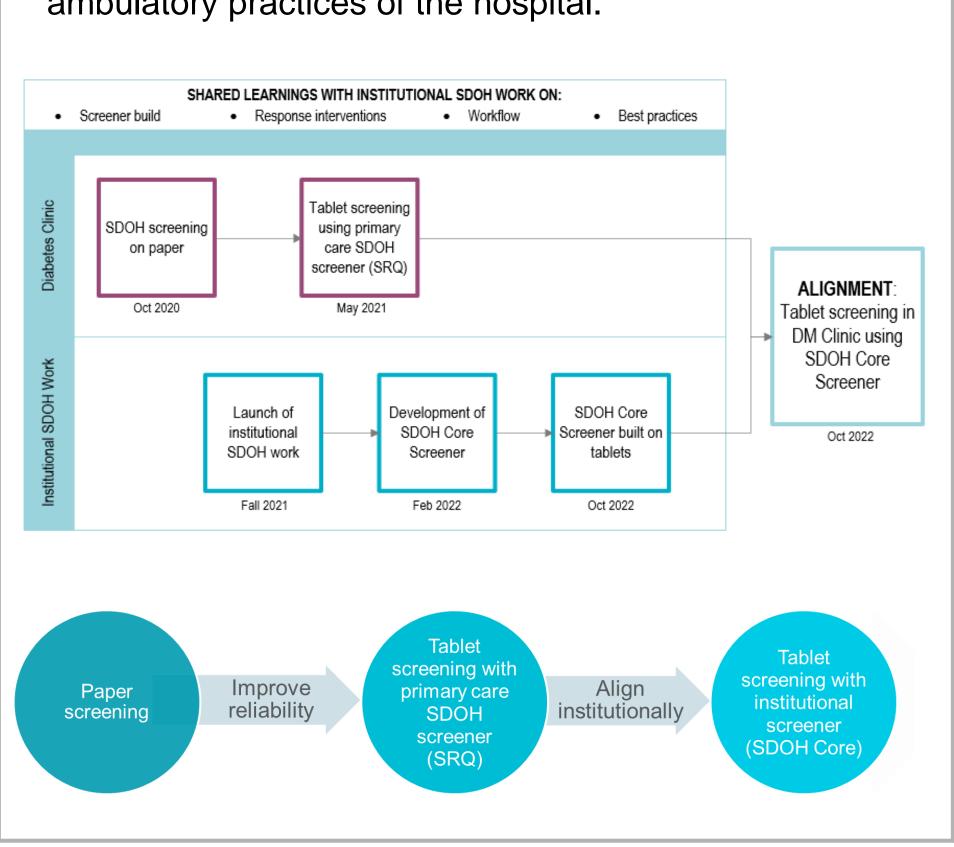
Active intervention

Abandoned intervention

Methods

Using quality improvement (QI) methodology, a multidisciplinary diabetes team identified a SDH tool and created a system for addressing positive screens (Next Best document).

Once adapted from verbal to paper to automatic firing on electronic tablets, learnings were translated into a hospital-wide core SDH screener intended for use in all ambulatory practices of the hospital.

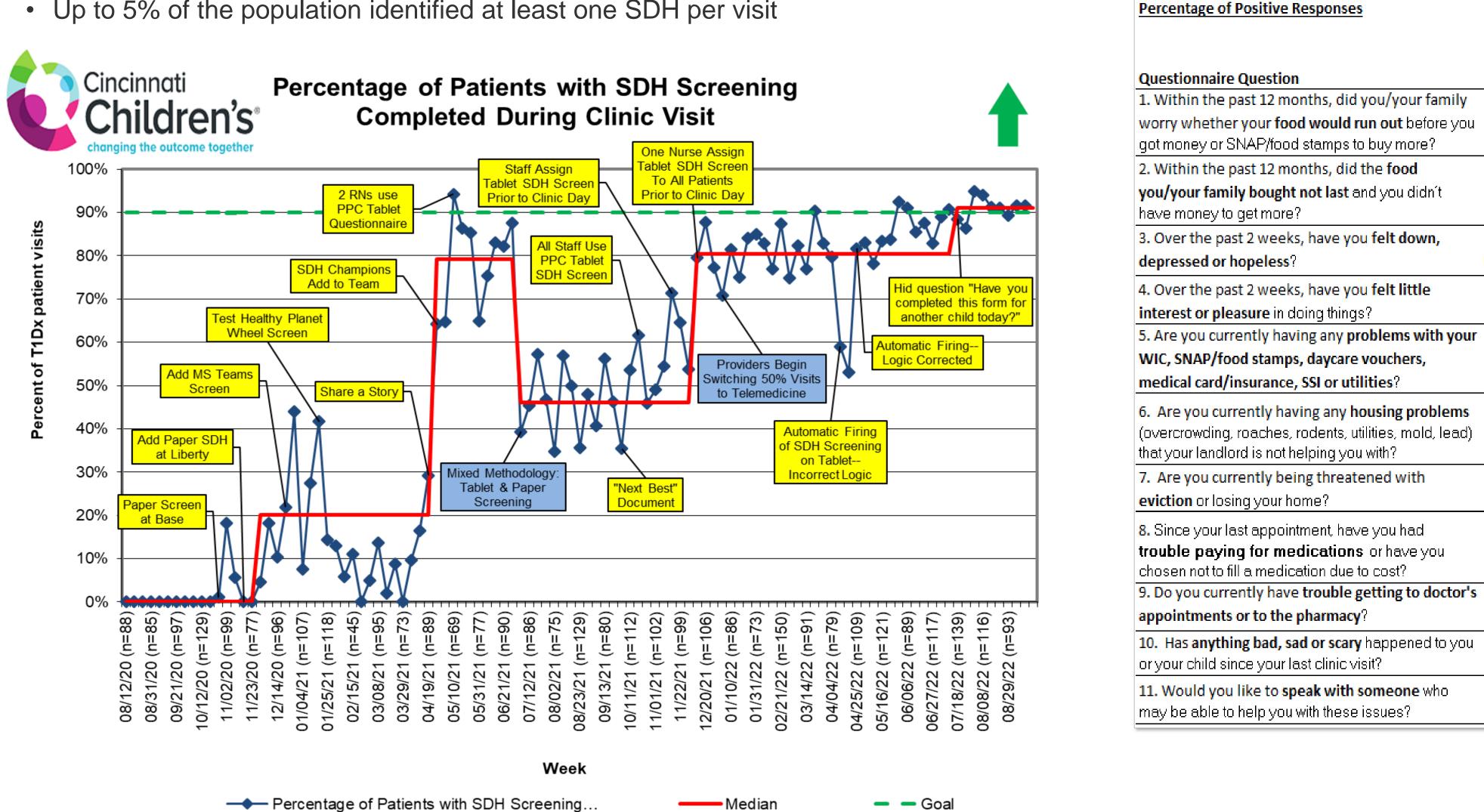


Results

As of September 2022: 5,400 screens have been completed

- Shifted centerline from 0 to 91%
- Up to 5% of the population identified at least one SDH per visit

population management



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Key Learnings

- Identifying SDH Champions, on the ground clinic nurses, was successful in accelerating buy-in
- Sharing success stories and data was instrumental in accelerating momentum
- Rely on automation
 - LEVEL 1 Reliability: Intent, vigilance, and hard work
 - LEVEL 2 Reliability: Decision aids and reminders built into the system, and real-time identification of failures
- Patient reported outcomes (PRO's) is a more effective method for SDH screening
 - Families are more transparent and comfortable

Conclusions

- Implementation of a SDH screen in diabetes clinic can be standardized and effective in identifying barriers to healthcare needs of patients with diabetes
- SDH screening in T1D population can be readily adapted to screen other pediatric chronic disease populations in large tertiary care centers, magnifying its impact on healthcare outcomes

Future Direction

Craft targeted interventions for each domain of SDH:

- FOOD INSECURITY → Capital request for food pantry
- DEPRESSION → Align with Cincinnati Children's Screening to Improve Outcomes Task Force (integration of a full bundle of psychosocial screenings, e.g., SDOH, depression/suicide, & substance abuse)
- HOUSING/UTILITIES → Legal aid expansion of Cincinnati Child Health-Law Partnership (Child HeLP) and collaboration with Community Relations
- FINANCIAL → Utilization of financial counselor and innovation funding
- TRANSPORTATION → Implementation of mobile clinic

Co-production with schools

 EDUCATION → Adding education domain and collaboration with school nurses/administrators

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