

Reach of a community-based, whole family-inclusive intensive health behavior and lifestyle intervention in rural adolescents

School of Medicine UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

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INTRODUCTION

- Type 2 diabetes (T2D) is a serious chronic disease with rising incidence in adolescents
- Rural populations are more affected by risk factors for T2D like obesity than urban populations
- Standard-of-care for T2D prevention is intensive health behavior & lifestyle treatment (IHBLT), but IHBLT is hard to access in rural areas
- IHBLT tailored for rural populations is critically needed

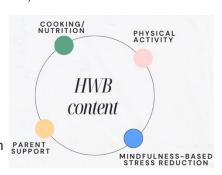
STUDY OBJECTIVE

Characterize recruitment methods & participant reach during the initial implementation phase of Health Without Barriers (HWB), an IHBLT tailored for rural Colorado, to:

- > Identify which sources are more vs. less successful
- Assess reach to target population: rural adolescents (11-19 yrs) at-risk for preventable chronic diseases like T2D

PROCEDURES

- Through partnership (2020-) of Extension (Land-grant public service arm of CSU), CSU/CU SOM clinician-scientists, & community partners, engagement & pre-implementation planning conducted to create HWB, tailored from Healthy Living Program (Haemer et al.):
- > Whole family participates in the program with group activities and breakout sessions by age
- > 26+ total hrs; 2 sessions per week for 6-weeks
- Delivered at local rec centers by bilingual health PARENT educators



RECRUITMENT METHODS & TRACKING

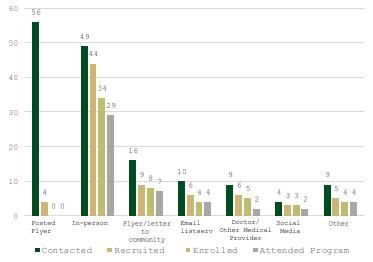
Recruitment Methods:

- · area flyers
- in-person outreach
- mailings to schools/community organizations
- email listservs
- healthcare referrals
- social media

Enrollment Program **Recruitment Flow:** Session Attendance Scheduled Signed

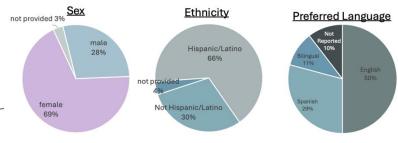
Note: Recruitment outreach was through Extension HWB coordinators

RECRUITMENT METHODS



RESULTS

Demographics of HWB adolescent attendees



N=48 enrolled adolescents:

- Average age 13 years old \pm 2 years
- 42% BMI≥85th %
- 54% family history of T2D
- 23% ≥1 elevation in lipids, A1c, or BP

DISCUSSION

- Flvers reached largest volume of rural families, but with unsuccessful translation to IHBLT attendance
- <u>In-person outreach</u> resulted in the highest rate (30%) of those contacted who attended IHBLT
- Despite low volume, a sizable percentage (6%) of healthcare referrals attended HWB
- Characteristics of enrolled adolescents suggest success of strategies, as a whole, in reaching intended rural population in need of chronic disease prevention

TAKEAWAYS & NEXT STEPS

- In-person outreach through Extension HWB coordinators is strong recruitment method in rural Colorado
- * Rural healthcare referrals+partnership with Extension is area for optimization, given medical home critical to rural chronic disease prevention