















Promoting Diverse Recruitment in Genomic Research: The Impact of Community Partnerships in the BabySeq Project

Sheyenne Walmsley,^{1,2} Bethany Zettler,^{1,2} Carol R. Horowitz,^{3,4} Casie Genetti,⁵ Sarita Edwards,^{6,7} Robert C. Green,^{1,2,8,9} Ingrid A. Holm^{5,9}

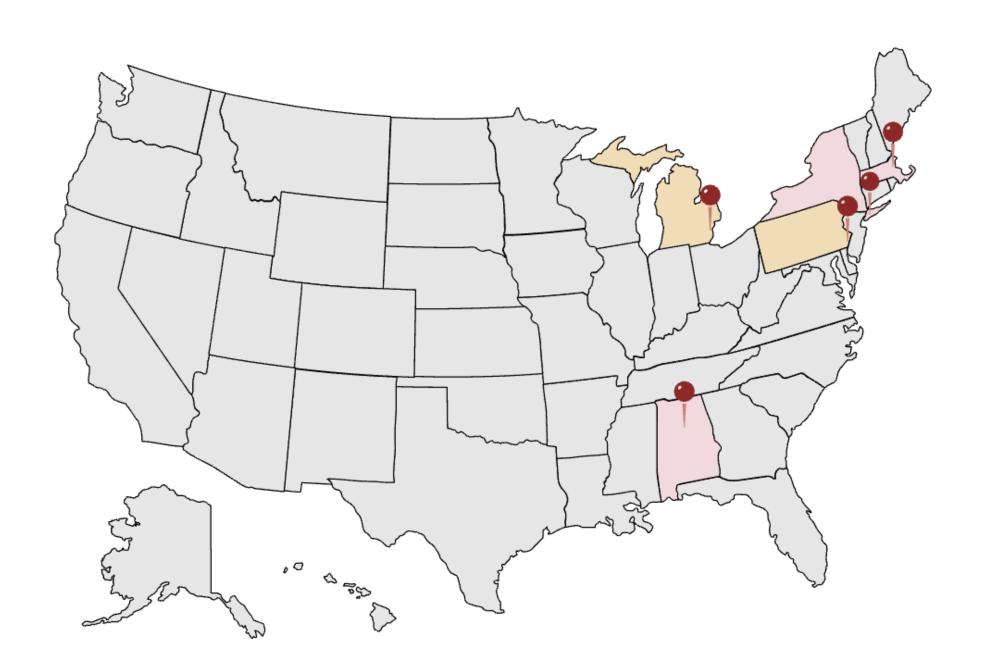
1) Department of Medicine, Mass General Brigham, Boston, MA; 2) Ariadne Labs, Boston, MA; 3) Department of Medicine, Icahn School of Medicine at Mount Sinai, New York, NY; 4) Department of Population Health Science and Policy and Institute for Health Equity Research, Icahn School of Medicine at Mount Sinai, New York, NY; 5) Division of Genetics and Genomics, The Manton Center for Orphan Disease Research, Boston Children's Hospital, Boston, MA; 6) The BabySeq Project Community Board; 7) E.WE Foundation, Huntsville, AL; 8) Broad Institute, Cambridge, MA; 9) Harvard Medical School, Boston, MA

INTRODUCTION

- Partnering with local community stakeholders in clinical research may help encourage participation among diverse populations.
- We studied whether these partnerships could increase diversity in the second iteration of the BabySeq Project: a randomized controlled trial of infant genome screening.

METHODS

- We convened a diverse Community Board from core enrollment cities (Boston, MA; New York, NY; Birmingham, AL) to provide input via virtual quarterly meetings with study staff.
- Collaborating with local pediatricians extending to two additional enrollment cities (Detroit, MI; Philadelphia, PA), we provided brief genomics education and hired local research assistants to recruit families in clinic.



Community Board Influence on Study Protocol

- Revised consent requirement to 1 parent/guardian (instead of 2) 01
- 02 Simplified and clarified consent language
- Collaborated on formative research (interview guides & surveys) 03
- 04 Implemented less invasive sample type (heel stick)
- Removed sample collection requirement from control group & parents 05

DATA ANALYSIS

The uptake rate and demographics (race; ethnicity; education; household income) of families recruited to date were compared to our first iteration of BabySeq using chisquare tests.

Currently, there are 426 families enrolled in BabySeq, of which 140 (59 in sequencing group, 81 in control group) have had their results disclosed.

	BabySeq Phase 1	BabySeq Phase 2	p-value
Uptake Rate	6.9%	23.3%	p<0.001
Race			
Non-White	17.6%	86.7%	p<0.001
Ethnicity			
Hispanic	7.4%	39.9%	p<0.001
Education			
Below BA degree	8.3%	70.8%	p<0.001
Household Income			
Under \$140-150k	43.7%	92.5%	p<0.001

DISCUSSION

- In this second phase of the BabySeq Project, the uptake rate is significantly higher, and families are significantly more diverse and nationally representative.
- Early recruitment experiences suggest that engaging with local communities and clinicians and recruiting in diverse practices can help increase diversity in genomic research.

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swalmsley@bwh.harvard.edu



genomes2people.org