Social barriers may moderate the effectiveness of produce prescription program for low-income, hypertensive adults in West Dallas

Mohit Gupta, Erika Largacha Cevallos, Lucy Xin, Paula Butler, Rebecca Seguin Fowler, Alexandra L. MacMillan Uribe

BROTHER BILL'S AGRILIFE RESEARCH

Randomized, controlled trial of a 6-month produce prescription program for hypertensive adults

Participant Recruitment



N=201

West Dallas adult residents with hypertension (BP ≥ 130/80 mmHg) were identified from community and clinic blood pressure screenings

Inclusion Criteria

- >18 years old
- Eligible for SNAP
- Member of a low-income household

Enrollment and Randomization

Eligible and interested individuals were enrolled, randomized to receive the intervention in Wave 1 or Wave 2, and completed the baseline survey

N=104

Wave 2 participants served as controls for Wave 1







Intervention

- Attend 6-week blood pressure management class
- Enroll in SMS-based BP home monitoring program
- Receive weekly produce box
- Receive bus pass for classes and produce pickup
- Receive blood pressure cuff, weight scale, pedometer, pill box, DASH cookbook









Seasonal and local produce based on preferences identified through focus groups

Amount based on household size: Medium produce box for family of 2-3 contained 12-13 produce items

Preliminary Results - Wave 1



Blood pressure increased in both groups

Differences between groups in the change in blood pressure were small



Fruit and vegetable intake slightly increased

Larger increases were observed in the intervention group, but differences were not significant



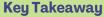
Food insecurity rates slightly decreased

Participants in both groups improved from Very Low to Low food security during the study period



Produce pickup rates & class attendance were low

 Low utilization of resources by the intervention group may account for low effectiveness



Further studies needed to evaluate the factors moderating the effectiveness of produce prescription programs in improving longitudinal blood pressure management



Assessed Pre- and Post-Intervention

- Triplicate blood pressure measurements taken, and anthropometrics measured
- Dietary intake assessed using Diet History Questionnaire (DHQ) III
- Food insecurity assessed using the USDA ERS Six-Item Food Security Survey
- Number of pickups and class attendance tracked