## Fruit and Vegetable Intake and Taste Preference Concordance

Between Low-Income 4th Graders and Their Parents
Bonnie Braun, PhD, CFCS • Susan M. Gross, PhD, MPH, RD • The University of Maryland College Park
School of Public Health • Department of Family Science • The Maryland Food Supplement Nutrition Education Program


- Proicect RRESH bestsients




Abstract
To explore over a 12 month period similarities and differences in fruit and vegetable ( FV ) intake and taste preferences among low-income fourth grade children and their parents. Design, Setting and Participants: A school-based cohort study of 32 low-income fourth grade student and their parents. This study is part of a larger investigation examining influences of school and family influences. Intervention: Students participated in classroom-centered, ten lesson nutrition education. Parental participation in two school FV -focused events was optional. Outcome Measures and At Time One, very little concordance between parent and child on FV intake or preference. At baseline, $84.4 \%$ of students and $78.1 \%$ of parents reported eating vegetables on the previous day ( $\mathrm{p}<0.01$ ). Among the students ( $90.6 \%$ ) and parents ( $59.4 \%$ ) reported eating fruit ( $\mathrm{p}<0.05$ ). For students and parents, Time 1 and Time 2 FV intakes did not change. Between Time One and Time Two ( 12 months) most parents ( $73.4 \%$ ) did not change their FV intake. Of the $9.7 \%$ of students who increased their FV intake, none of their parents changed their FV . Over $50 \%$ of both students and parents increased their FV preference scores. Student FV preference scores at Time One were positively correlated with Time Two parent FV preference scores ( $\mathrm{r}=0.40, \mathrm{p}<0.05$ ). Conclusions: School-based interventions alone may not be sufficient to impact parent FV intake and preference. Future studies should increase the sample size and consider a parent education component.


Fruit and Vegetable Intake Baseline and One Year Follow-up

${ }_{-}^{\text {RESULTS }}$ - Tast Preference

| - Taste Preference |
| :--- |
| - Over $50 \%$ of |

- Over $50 \%$ of boh suducns and parenss increased their $F \mathrm{FV}$ preference scorcs.

CONClusions

$\xrightarrow{\text { Integrating Nutrition Into the Curriculum }}$


 - Farmers Markec
school-ampus

measures



- Ansessed by subtracting asedine and Follow-up











Taste Preference Change
Taste Preference Change
Baseline to Year One
sumaminmen
(


5 ) Mixturiaio
extrestion
 - Futures sudies should inererase hte sample size.

