

Salud America!

Pilot Investigator Project Results

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Collaborators

- Brisa Sanchez, PhD, University of Michigan
- Lisa Goldman Rosas, PhD Stanford University
- Ali Uscilka, MPH, San Francisco State University
- Sue Egerert, PhD University of California San Francisco
- Policy Advisory Board: **Patricia Crawford**, DrPH (UC Center for Weight and Health), **George Flores**, MD., (The California Endowment); **Robert Garcia**, Esq., (The City Project); and Dr. **Harold Goldstein**, PhD., (CCPHA).



Project accomplishments

- Completed aims
 - Obtained and merged data:
 - students, schools, school districts' physical education policy compliance, US Census 2000, and assembly district race/ethnicity population data.
 - Cleaned and prepared data
 - Conducted descriptive statistics
 - Fit multilevel logistic regression models
- Met with advisory board
- Wrote research brief
- Manuscript submitted for publication in AJPM
- Applied/ing for funding



Results

School districts
n=55

Schools
n=1,028

Children
n=91,236



Compliance *matters* for children's physical fitness

	Crude	Adjusted*	95%CI
Full sample	1.26	1.29	1.03, 1.61
By Race/ethnicity			
Asians	1.52	1.43	0.67, 3.06
Blacks	1.12	1.40	0.83, 2.37
Hispanics	1.34	1.38	1.07, 1.78
White	1.17	1.35	1.01, 1.81

*Adjusted for age, gender, and school-level variables (total school enrollment, percent of students eligible for free or reduced-price meals, racial/ethnic diversity, and percent of college-graduates and median income of census tract residents included as linear and quadratic terms)



- No evidence of a significant association between compliance and obesity.
- No evidence of a differential effect of compliance on fitness or obesity according to *assembly* district characteristics (% race/ethnic population; income).



Project Policy Implications

- Create fund and maintain mechanisms to monitor policy compliance
- Allocate funding to improve physical education in schools
- Require data collection and make it publicly available for education, health and policy research
- Inform policy efforts to improve physical activity in the state of California and the nation.



Project Changes

- Delays due to obtaining assembly district data, unanticipated additional statistical analysis and the need to examine compliance data in more detail.
- Added data and expanded analyses to include all race/ethnic groups.
- Additional tests for interactions between complianceXage and complianceXgender.



Project Presentations

- **Sanchez-Vaznaugh, EV.** Obesity and environmental approaches: can they really prevent childhood obesity? Stanford University. February 9, 2011.
- **Sanchez-Vaznaugh, EV.** Society for the Advancement of Chicanos/Latinos and Native Americans in Science annual conference. October 2011. (Upcoming)
- **Sanchez-Vaznaugh, EV.** Sanchez, BN. Goldman Rosas, L, Baek, J. Informing Latino Childhood Obesity Prevention: The Role of Physical Education Policies in California. Annual meeting of the American Public Health Association, Nov. 7th, 2010.
- **Sanchez-Vaznaugh, EV.** The Obesity Tsunami: Diminishing Its Impact Through Attention to the Causes of the Causes. *Invited Talk.* School of Public Health, University of California, Berkeley. March 11, 2010.

Project Products/Publications

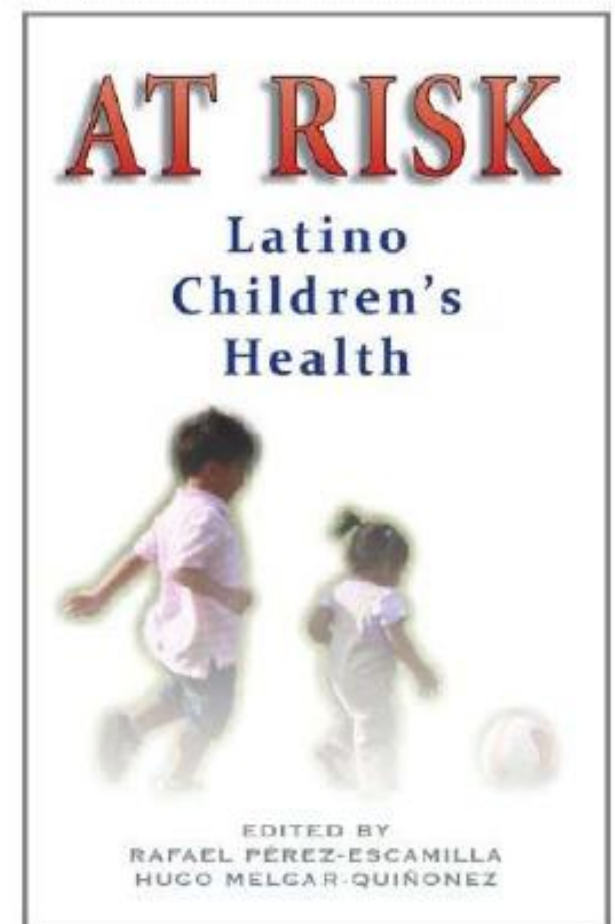
- Physical education laws matter: school district compliance is linked with children's physical fitness. *American Journal of Preventive Medicine* (revise & resubmit)
- Research Brief
- Other findings not publishable (?)



Project Products/Publications

- Flores, G., Sanchez-Vaznaugh, EV et al. (2011). Latino Children's Health and the Environment. In: At Risk: Latino Children's Health. Perez-Escamilla & Melgar-Quinones.

<http://www.amazon.com/At-Risk-Latino-Childrens-Health/dp/1558857087>



Project Products/Publications

- Differential effect of the food environment near schools on childhood obesity across race/ethnicity, gender and grade. *American Journal of Epidemiology*. (revise and resubmit)
- Hispanics: positive association with overweight/obesity/BMI.
- First to systematically assess patterns by race/ethnicity, and whether there are ceiling effects of fast food restaurant/convenience store density on obesity



Grants

- University of Michigan, research incentive discretionary fund (\$22,000).
- Sanchez, BN. Small Grant Program, Complex System Approaches To Population Health and Health Inequalities, \$20,000. Center for Social Epidemiology and Population Health (NIH funded), University of Michigan.
- USDA/ERS RIDGE
- SFSU Provost Research Award (Fall 2011)
- Kaiser Permanente Burch Minority Leadership Award (2010-2012)
 - Research-to-policy connections

Career Development

- Apply for grants
- Productivity
- Visibility
 - Invited to present at the Pan-American Advanced Studies Institute in Probability and Statistics (Veracruz, Mexico)



Future Plans

- Disseminate findings to diverse stakeholders.
 - Media
 - State legislators
- Apply for NIH funding to build upon the results of the study (e.g., race/ethnic disparities focus).





THANK YOU!

