



Background: Advertising

Why look at advertising?

- Advertising has been well-documented to influence purchasing behavior
- Targeted marketing toward specific populations (communities of color, children) and environments (high-poverty areas), is well established

Background: Advertising

- Little research has been done on outdoor advertising of sugary drinks and unhealthy food, both in general and to targeted audiences
- Methods vary widely; to our knowledge no consensus on best practices
- No comprehensive study has been done in NYC to explore advertising for these harmful products

 Sources

 • Lovery BD, Sloane DC. The prevalence of harmful content on outdoor advertising in Los Angeles: land use, community characteristics, and the spatial inequality of a public health nuisance. Am J Public Health. 2014 Apr;104(4):558-64

 • Lesser LL, Zimmerran FJ, and Cohen DA. Outdoor advertising, obesity, and soda consumption: a cross-sectional study. BMC Public Health. 13:20, 2013.

 • Yancey CK, Cole BL, Brown R, et al. A cross-sectional prevalence study of ethnically targeted and general audience outdoor obesity-related advertising. Whilen Q.K. 7:15-164, 2009.





Community Marketing Study

Purpose:

To estimate the density of outdoor advertising for nonalcoholic beverages, food, tobacco and alcohol in NYC overall and by neighborhood poverty

By:

Collecting images of street-level advertising on 1,050 retaildense blocks stratified by borough and by low-, medium-, and high-poverty neighborhoods, in summer of 2015

Community Marketing Study Methods and Approaches – Outline:

- I. Key Decisions:
 - Defining "Retail-Dense"
 - II. Defining Neighborhood Poverty
- II. Sampling Frame
- III. Advertisements
- IV. Limitations & Strengths















More Decisions: Neighborhood Poverty

- Census tract data was used to determine poverty level for each street segment and categorize them at 3 levels
- Levels were based on the <u>percent of residents</u> <u>living below the federal poverty threshold</u>:
 - 1) Low poverty: <10% of residents
 - 2) Medium poverty: 10 <20% of residents
 - 3) High poverty: 20% + of residents

Source: Toppani A Hadler JL Selecting and Applying a Standard Area-based Socioeconomic Status Measure for Public Health Data:Analysis for New York City, New York City Department of Health and Mental Hygiene: Epi Research Report, May 2013; 1-12.

Sampling Frame

- Target sample size was **1,050** street segments, stratified by borough and poverty group, for a total of 15 strata
 - 10% oversample if replacements were needed yielded 1,106 total in sample
- We randomly sampled street segments within each strata, setting a minimum of 50 street segments per strata
- Remaining segments were distributed into strata proportionally



Advertisements Defined

- Advertisements included in this study are street-level, stationary signs (posters, stickers, decals, etc.) that display a product with the intended purpose of promoting that product or type of product
- One ad is considered the discrete, physical unit of the poster, sticker, decal etc., even if it contains multiple images





























8

Limitations

- All datasets that are used to define sample are not updated with the same frequency; some are likely to be outdated
- People don't live and work only in their own neighborhoods, they may be exposed to other advertisements wherever they travel
- Anything other than "street level" advertising was excluded
- Not capturing size of advertisements

Strengths

- Efficient approach to defining the retail environment
- Large sample size
- Ability to conduct citywide analyses, as well as comparisons between neighborhood poverty levels
- Inclusion of a range of unhealthy products featured in advertising content (food/beverage, alcohol, tobacco)

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