RACIAL/ETHNIC DIFFERENCES IN AWARENESS AND USE OF NUTRITIONAL LABELING

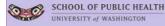
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IN KING COUNTY CHAIN RESTAURANTS

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BACKGROUND

- Effective January 2009: King County requires chain restaurants with ≥15 locations to provide calorie, saturated fat, carbohydrate and sodium information
- Policy goal: To curb obesity epidemic and reduce risk for chronic diseases, including diabetes, cardiovascular disease and cancer

PURPOSE – STUDY OBJECTIVES

- Examine nutritional-labeling impact on consumer nutritional awareness and information use one year post-policy
- Examine differences in awareness and information use by race/ethnicity and other socio-economic status (SES) indicators

METHODS

- Analyzed King County Behavioral Risk Factor Surveillance Survey data (2008 – 2010), applying weights to construct county estimates
- Logistic regression models to examine associations between outcomes and race/ethnicity, SES variables
- Outcomes:
 - 1) See calorie information before ordering
 - 2) See other nutritional information before ordering
 - 3) Use calorie information when ordering
 - 4) Use other nutritional information when ordering
 - 5) Know appropriate daily caloric intake for average adult
- Race/Ethnicity: White, Black, Asian/Pacific Islander, (API) Hispanic
- SES Covariates: Age, Race, Income, Education, Gender, Overweight/Obese, Marital status, Household size
- Tests of proportion to compare pre to 1-year post policy results between and within racial/ethnic groups

EVALUATION - RESULTS

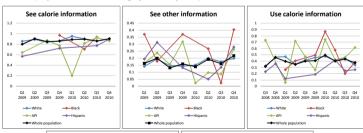
OVERALL POPULATION

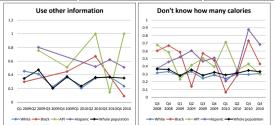
- 65% population ate at chain restaurant in past week White 66%; Black 59%; API 66%; Hispanic 56%
- Modest, but no significant, improvements in outcomes for whole population from pre to 1-year post

REGRESSION RESULTS

- 1) See calorie info: Women lower odds (OR=.39) than men
- 2) See other info: No significant variables
- 3) Use calorie info: Women higher odds (OR=2.35) than men
- Use other info: API, Income ≥ \$10K/yr higher odds but unstable estimates (wide CIs)
- 5) Don't know appropriate daily caloric intake:
- API (2.5), Hispanics (7.5), ≥ 45yrs (2.2) higher odds of not knowing or giving implausible daily caloric values
- Lower odds among those with incomes ≥\$50K (.22), ≥ High school degree (.05), Married (.76)

(Reported results are significant at p<.05).





EVALUATION - RESULTS

BETWEEN RACE/ETHNICITY COMPARISONS

- Few significant differences by race/ethnicity among those who ate at chain restaurants, or saw or used calorie or other information
- Higher proportion of Hispanics (.60) did not know or gave implausible amounts for daily caloric intake compared to Whites (.39)
- Higher proportion of APIs (.81) used other nutritional information when ordering compared to whites (.31)
- Small sample sizes in some sub-populations resulted in few significant results by race/ethnicity

WITHIN RACE/ETHNICITY COMPARISONS

- API: Smaller proportion didn't know or gave implausible caloric values from pre to 1-year post (64% to 42%)
- No other significant changes from pre to 1-year post

CONCLUSIONS & CONSIDERATIONS

- Limited or no impact one year post-policy on nutritional awareness or use of information among overall population and communities of color
- Larger samples of some subpopulations and more time may be required to observe significant changes
- BRFSS respondents may not be representative
- Additional or other actions may be needed to improve consumer nutritional awareness and choices

FUTURE PLANS

- Compare BRFSS findings with results of consumer point-ofpurchase surveys
- Examine qualitative data from focus groups conducted by PHSKC with parents and youth from lower-income groups and/or communities of color regarding food decision-making