

National Health and Nutrition Examination Survey

Using Text Reminders to encourage fasting for medical exams

Sheryl Wood, MPH, Westat Tatiana Nwankwo, MS, National Center for Health Statistics (NCHS)





- Area Sampling 15 counties/year
- HH screener
- Oversample Hispanic, African American, Asian American, Older Adults, White/other low income
- Home interview then 4.5 hour exam
- 5,000 examined participants/year



- Preselect subsample of persons for morning exams
- Morning exams require fasting of 12+ year olds
 2 additional blood tests OGTT and cholesterol
- Instructions to fast are in appointment reminder:
 - Slip
 - o Letter
 - o Call script
 - o Text messages (added May 2011)



Text Messages

- Home questionnaire ask permission to text and cell number
- Reminder texts sent 1:00 pm and 7:00 pm local respondent time (English/Spanish)

Your health exam is at 8:30am tomorrow morning. Please do not eat or drink anything except water after 11:30 pm tonight.



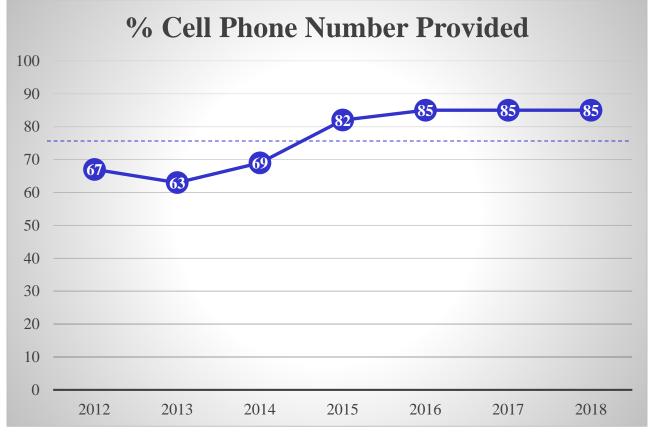
Cell Number Provided

• May 2011 to December 2018

- 11,802 participants asked to fast overnight
 - 8,933 or 76% reported cell phone number
 - 2,869 or 24% did not report a cell phone number

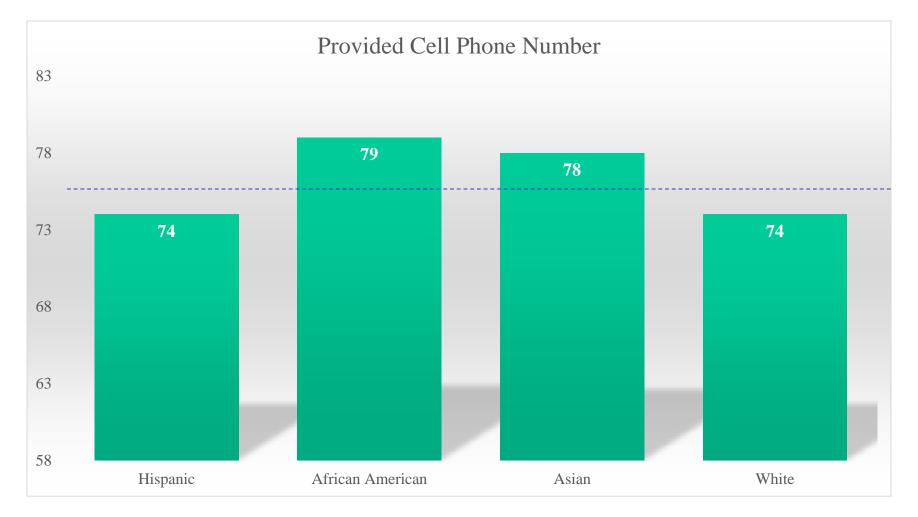


Cell Number Provided by Year

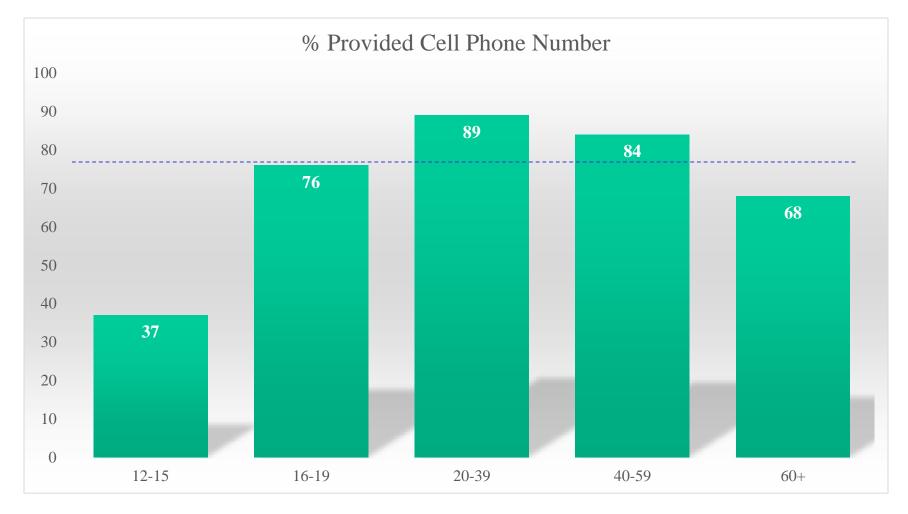


*Data from 2012 through 2018



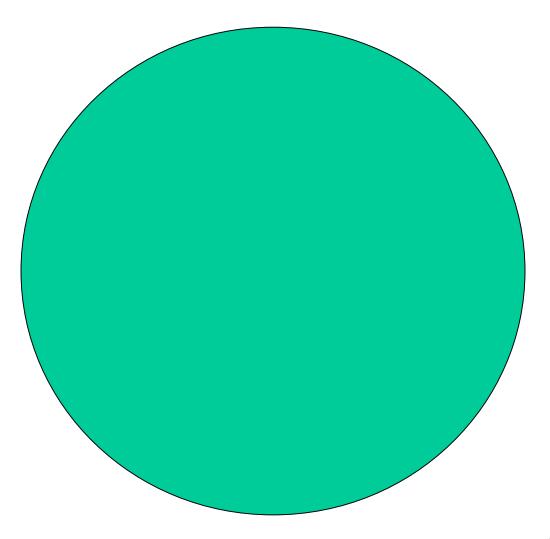






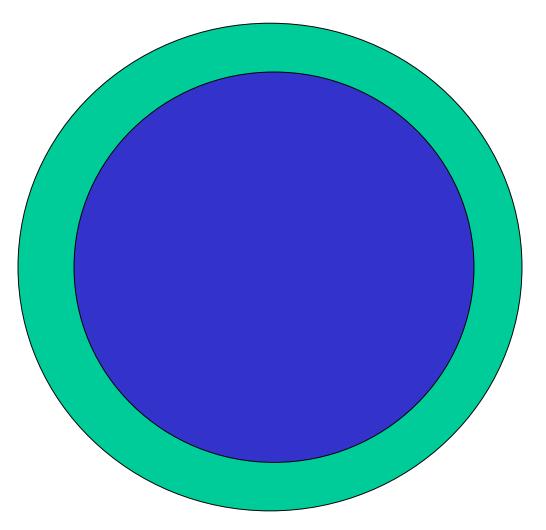


• 11,802 eligible



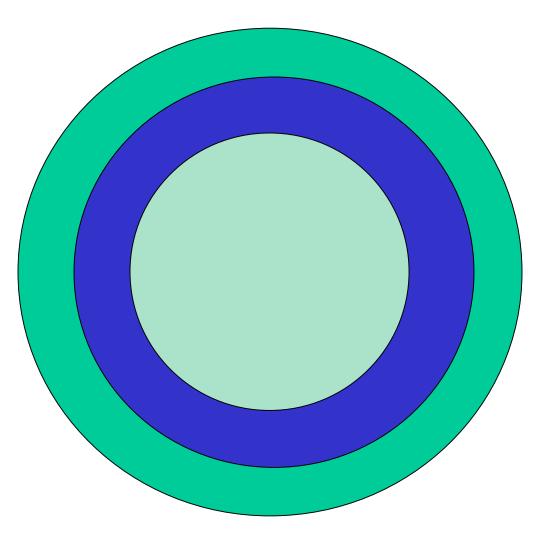


- 11,802 eligible
- 8,933 cell phone





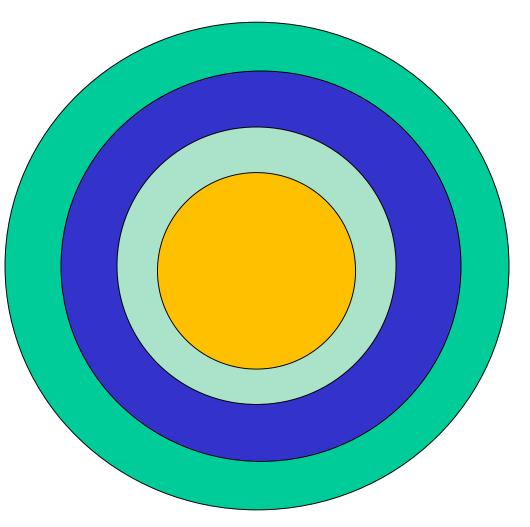
- 11,802 eligible
- 8,933 cell phone
- 6,131 permission to text



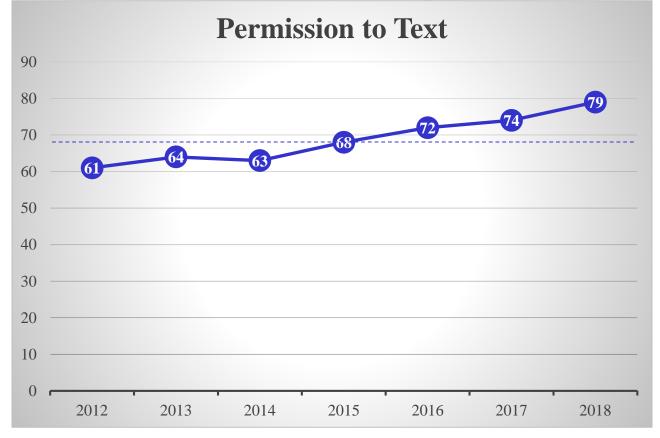
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anes Permission to Text

- 11,802 eligible
- 8,933 cell phone
- 6,131 permission to text
- 4,787 texted (40%)

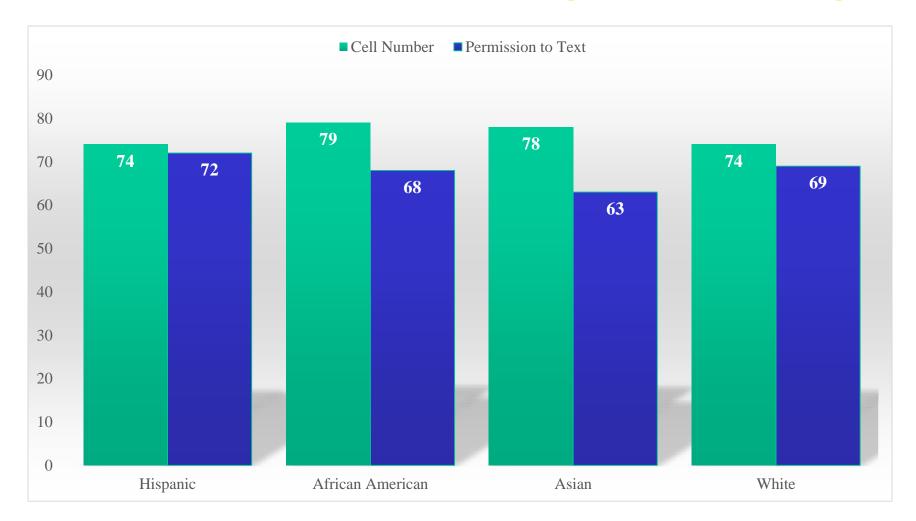


Manes Permission to Text by Year

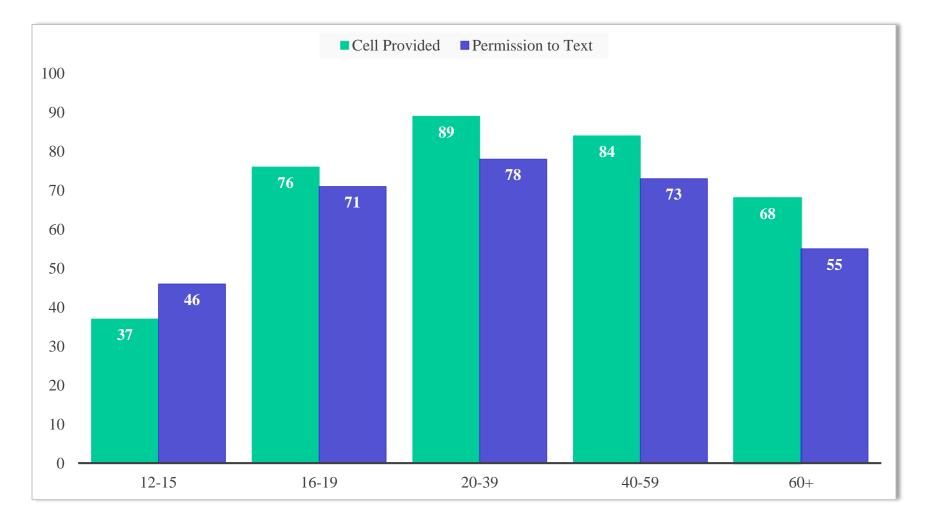


*Data from 2012 through 2018

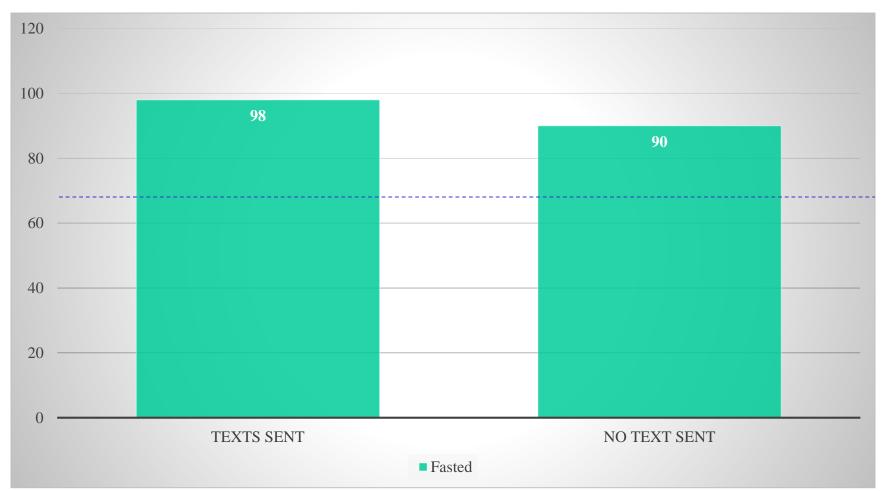
nhanes Permission to Text by Race/Ethnicity



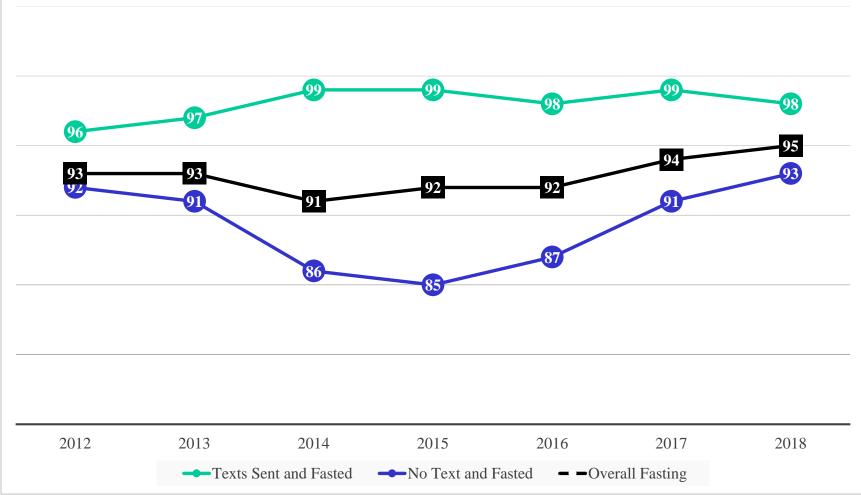
Thanes Permission to Text by Age



Manes Relationship between texts and fasting behavior







*Data from 2012 through 2018



Final Thoughts

- Inexpensive to set up
- Once set up, Automated
- Confidential



Stephen Bernas

Jay Clark Brad Edwards Jacquie Hogan Douglas Williams

Sheryl Wood Westat SherylWood@Westat.com

Tatiana Nwankwo NCHS <u>bwt4@cdc.gov</u>