

Implementing the Health Information National Trends Survey in Puerto Rico (HINTS-PR): *Partnership, Lessons Learned, and Preliminary Findings*



How Americans find and use cancer information
Health Information National Trends Survey



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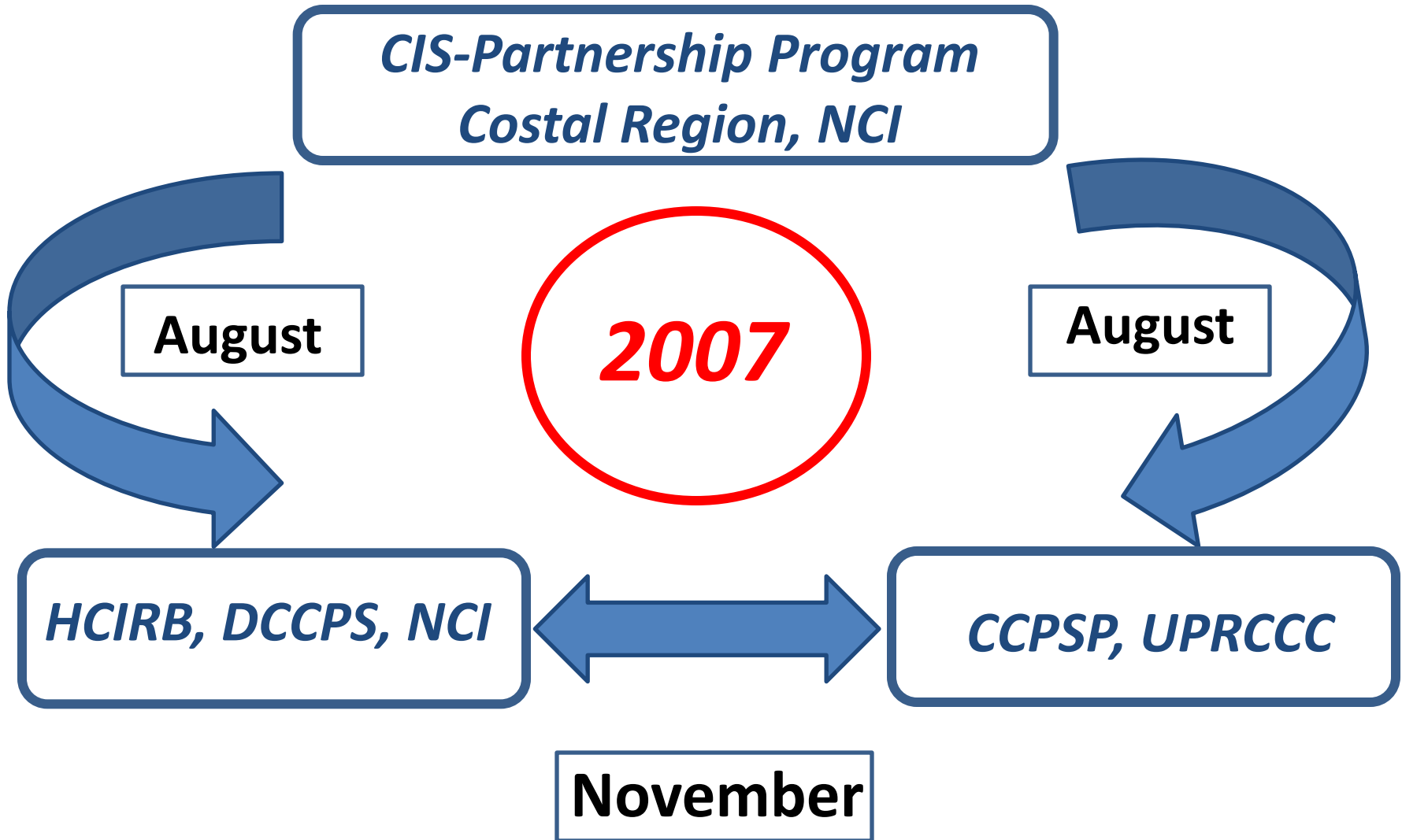
⁶ WESTAT

Expanding HINTS:
*University of Puerto Rico
Comprehensive Cancer Center*



HINTS-Puerto Rico

HINTS-Puerto Rico Partnership



HINTS-PR Objective

- Conduct HINTS 2007 among a random sample of the adult population (age 18+ years) of Puerto Rico to extend our understanding of the information needs, cancer-related knowledge, and behavior of Hispanic populations
- Lend insight into the sharing of survey resources on a population outside the continental U.S., and particularly to Spanish speaking population

HINTS-Puerto Rico Partnership

- ***April, 2008:*** Start process for collaboration
 - HCIRB and UPRCCC
- ***June, 2008:*** Meeting HCIRB, Westat, CIS, PR-BRFSS and UPRCCC
- ***October, 2008:*** HCIRB/UPRCCC contract Agreement completed
- ***October, 2008:*** Contract Agreement with Puerto Rico Department of Health

**Puerto Rico:
Socio-Political Context
and
Cancer Burden**

Socio-Political Context

Puerto Rico

- **Commonwealth territory of the USA (1898)**
- **Island Population 3,949,000 (July 2003 est.)**
 - Similar number living in Continental US
 - States with the largest Puerto Rican populations: Connecticut; New York; New Jersey; Massachusetts; and Florida
- **Capital City: San Juan (n = 434,000)**
- **Languages: Spanish, English**

**Metropolitan Area
Population
1,143,202
(29%)**



**42% of the population (n = 1,662,787)
resides in 11 counties**

Map of Puerto Rico by municipalities (n = 78)

Demographic Characteristics: Puerto Rico

- Median age **34.9 years**
 - 65+ years = **13 %**
- Median household income: **\$18,191**
- Population Below Poverty Level: **45%**
- Education (25+ years):
 - **66%** had \geq HS
 - **21%** Bachelor's or higher degree
- Hispanics = **99%**
- Native Puerto Rican = **97%**
- Spanish speakers = **95%**

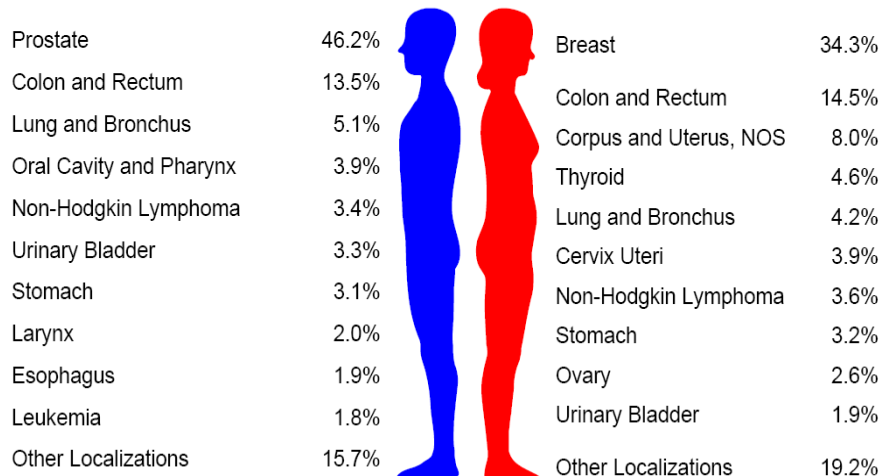
Cancer Burden in Puerto Rico

Cancer is the second leading cause of death in Puerto Rico 16.6% of all deaths in 2004 (Puerto Rico Department of Health)

Top Ten Cancer Sites Puerto Rico, 2003

Male (N=5,443*)

Female (N=4,304*)



*Cases with age unknown were included.

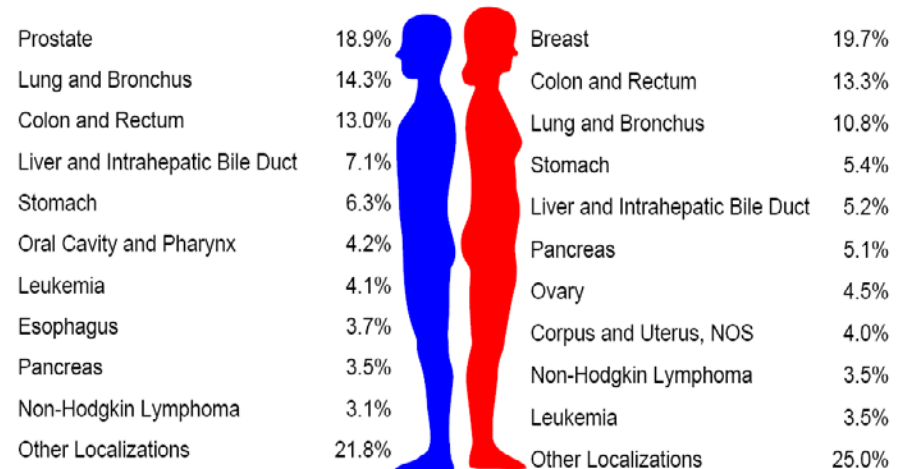
Statistics were generated from malignant cases only

Source: Puerto Rico Central Cancer Registry, Puerto Rico Cancer Incidence File (May 2007), Division of Epidemiology, Puerto Rico Department of Health.

Top Ten Cancer Deaths Puerto Rico, 2004

Male (2,721*)

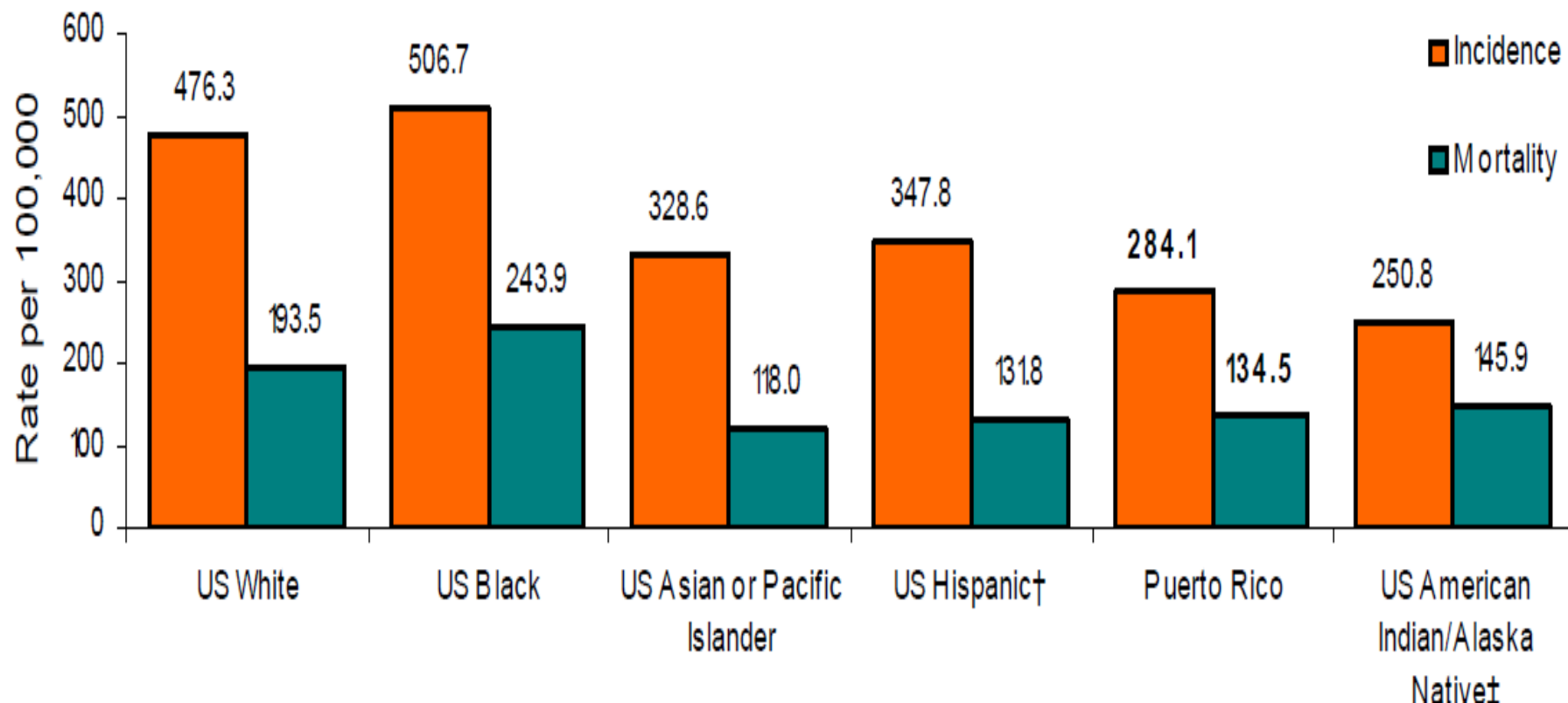
Female (N=2,105*)



*Deaths with age unknown were included.

Source: Puerto Rico Central Cancer Registry, Puerto Rico Mortality File (released August 2006), provided by the Division of Statistical Analysis, Auxiliary Secretariat for Planning and Development, Puerto Rico Department of Health.

All Sites Cancer Incidence and Death Rates* by Race and Ethnicity, PR and US², 1999-2003



Rates are per 100,000 and age-adjusted to the 2000
US standard population

Figueroa NR, De la Torre T, Ortiz KJ, Pérez J, Torres M (eds). All Sites Cancer Stat Fact Sheet, Puerto Rico Central Cancer Registry. San Juan, PR, <http://www.salud.gov.pr/RCancer/Reports/Pages/default.aspx>, based on May 2007 Puerto Rico Central Cancer Registry data submission, posted on the Puerto Rico Department of Health web site, 2008.



HINTS-Puerto Rico Survey Plan

Survey Plan

- Use the existing Puerto Rico-Behavioral Risk Factor Surveillance System (PR-BRFSS) infrastructure to conduct HINTS in Puerto Rico
- Puerto Rico-BRFSS (PR-BRFSS) has been part of the Puerto Rico Department of Health, Epidemiology and Research Office since 1995
- The PR-BRFSS staff in 2008 consisted of eleven Interviewers, an Administrator, a Secretary and the Director/Coordinator. They devote 100% of their time effort to Puerto Rico BRFSS activities
- PR-BRFSS conducts surveys in English and Spanish
- PR-BRFSS response rate is **72.6%** (2005)

Survey Plan

- The University of Puerto Rico Cancer Center (UPRCC) sub-contracted with PR-BRFSS to conduct the survey
- Spanish version of HINTS 2007-2008 Survey
- Survey reviewed by Puerto Rican team for language appropriateness and need for adaptation of survey items
 - ***“Health Reform”*** was added to the statement of question related health insurance
 - ***“Place of birth”*** was modified (options included Puerto Rico; Continental US; and Other)

Survey Plan

- In addition, all response options and instruction for the interviewers were translated to Spanish
 - Facilitate data collection in Puerto Rico
 - Future implementations of HINTS in other Hispanic/Latin American populations inside and outside the US
- Pilot test the revised instrument in a sample of 20 subjects (10 females/10 males) by PR-BRFSS using a paper format
 - To identify any major issues related to the appropriateness of the Spanish translation for the Puerto Rican population

Survey Plan

- Implementation of data collection instrument into CATI by Westat: **April, 2009**
- Training to the Puerto Rico-BRFSS by Westat staff (3-day): **April, 2009**
 - Review of interview procedures
 - Hands-on training at PR-BRFSS telephone center
- Data collection: **April 27- June 30, 2009**
- Data cleaning and weighting: **July-August, 2009**

Survey Plan

- **Sampling Procedures**

- Disproportionately stratified sample of phone numbers in Puerto Rico (Genesys)
- Sampling strata: 8 geographic regions used as sampling strata for the BRFSS program
- Westat managed sample and provided weekly list of telephone numbers to PR-BRFSS staff

- **Management of the data collection**

- Westat Telephone Research Center and the PR-BRFSS telephone center



HINTS/PR Wrap –Up Meeting September 1-2, 2009



Preliminary Findings

Preliminary Findings

- Preliminary descriptive analysis of population estimates of:
 - 1) Health information seeking
 - 2) Sources of Health information
 - 3) Cancer information seeking
 - 4) Sources of cancer information
 - 5) Internet use
 - 6) Type of internet access

Table 1
Sociodemographic Characteristics: HINTS Puerto Rico

	Counts PR (n=639)	Weighted Percentages PR
GENDER		
Male	189	46.3
Female	450	53.7
AGE GROUP		
18-34	81	31.9
35-49	115	27.9
50-64	194	21.4
65-79	192	13.9
80+	57	4.8
EDUCATION		
Less than High School	170	24.0
High School Graduate	147	27.8
Some College/Vocational	121	27.9
College Graduate or Beyond	162	20.3
HISPANIC		
Yes	595	98.7
No	8	1.3
Missing	36	-
PLACE OF BIRTH		
Puerto Rico	571	94.7
US mainland	18	3.0
Other	14	2.0
Missing	36	-

Health Information Seeking

- *Ever Seeking Health Information: 32.9% (n=219)*
- *Sources of Health Information the most recent time looked:*
 - *Internet* **57.9%**
 - *Printed media* **29.4%**
 - *Health Care Professional* **9.8%**
 - *Other* **2.9%**

Table 2
Health Information Seeking and Sociodemographic Characteristics:
HINTS Puerto Rico

<i>Ever Seeking Health Information</i>	Yes (n=219)	Weighted Percentage
GENDER		
Male	52	22.6
Female	167	41.8
AGE GROUP		
18-34	35	39.6
35-49	53	33.5
50-64	75	34.6
65-79	47	21.6
80+	9	10.6
EDUCATION		
Less than High School	23	15.1
High School Graduate	35	21.9
Vocational	54	41.0
College Graduate or Beyond	94	56.4

Table 3
Main Source Health Information the Most Recent Time
By Sociodemographic Characteristics:
HINTS Puerto Rico

<i>Source of Health Information</i>	Internet wt%	Printed wt%	Health Care Professional wt%	Other wt%
GENDER				
Male	63.6	22.0	12.2	2.2
Female	55.3	32.9	8.7	3.2
AGE GROUP				
18-34	79.9	11.0	8.3	0.9
35-49	65.7	24.1	7.1	3.1
50-64	31.7	54.2	14.9	0.8
65-79	15.9	53.1	14.9	16.1
80+	0	84.5	15.5	0
EDUCATION				
Less than HS	0	64.1	29.4	6.5
HS Graduate	63.2	26.3	8.6	1.9
Some College/Vocational	57.3	34.7	7.0	1.0
College Graduate or Beyond	75.1	15.4	4.9	4.6

Cancer Information Seeking

- *Ever Seeking Cancer Information: 28.1% (n=181)*
- *Sources of Cancer Information the most recent time looked :*
 - *Internet* **49.9%**
 - *Printed media* **29.7%**
 - *Health Care Professional* **14.7%**
 - *Other* **5.7%**

Table 4
Cancer Information Seeking and Sociodemographic Characteristics:
HINTS Puerto Rico

<i>Ever Seeking Cancer Information</i>	Yes (n=181)	Weighted Percentage
GENDER		
Male	41	20.7
Female	140	34.5
AGE GROUP		
18-34	26	31.6
35-49	52	35.4
50-64	55	23.9
65-79	38	17.2
80+	109	13.0
EDUCATION		
Less than High School	19	11.9
High School Graduate	27	16.7
Vocational	49	43.3
College Graduate or Beyond	77	41.1

Table 5
Main Source of Cancer Information the Most Recent Time
By Sociodemographic Characteristics:
HINTS Puerto Rico

<i>Source of Health Information</i>	Internet wt%	Printed wt%	Health Care Professional wt%	Other wt%
GENDER				
Male	50.3	30.4	15.7	3.6
Female	49.7	29.4	14.1	6.7
AGE GROUP				
18-34	71.4	9.1	18.9	0.7
35-49	51.8	27.8	5.7	14.7
50-64	27.5	58.5	12.9	1.1
65-79	15.0	46.0	28.7	10.3
80+	0	78.1	19.1	2.9
EDUCATION				
Less than HS	1.2	56.6	25.1	17.0
HS Graduate	59.1	28.4	2.1	10.5
Some College/Vocational	46.8	30.7	19.5	3.1
College Graduate or Beyond	67.0	20.4	10.0	2.7

Internet Use

- *Do you ever go on-line to access the Internet or World Wide Web to send and receive e-mail?:*
 - 32.7% (*n=142*)
- *Type of Internet Access:*

– DSL Modem	36.9%
– Telephone Modem	34.1%
– Cable/Satellite Modem	23.0%
– Wireless Devices	6.0%

Table 6
Internet Use and Sociodemographic Characteristics:
HINTS Puerto Rico

<i>Access to Internet</i>	Yes (n=142)	Weighted Percentage
GENDER		
Male	52	30.7
Female	90	35.1
AGE GROUP		
18-34	47	58.1
35-49	51	37.0
50-64	28	13.5
65-79	15	6.2
80+	1	1.7
EDUCATION		
Less than High School	1	1.5
High School Graduate	13	23.8
Vocational	41	50.0
College Graduate or Beyond	81	59.3

Conclusions

- This is an example of collaboration among the HCIRB and CIS (NCI), UPRCCC, and the PR-BRFSS, Puerto Rico Department of Health
- The collaboration with the PR-BRFSS provided access to:
 - Trained and experienced staff conducting telephone computer-assisted surveys
 - Bilingual interviewers
 - Culturally appropriate interviewers

Conclusions

- HINTS-Puerto Rico provides an opportunity to increase our knowledge of the information needs, cancer-related knowledge, and behavior of Hispanic populations, and of the Puerto Rican population
- HINTS data will play a critical role in cancer control planning in Puerto Rico
- HINTS data will complement existing health-related data sources

Conclusions

- This collaboration provides insight into the sharing of survey resources on a population outside the continental U.S.
- Feasible to conduct HINTS outside the continental U.S.
 - Required small amount of resources and time
- Provides a model for conducting HINTS in other Spanish speaking countries and other US Territories with similar resources (e.g.; BRFSS)

Future Plans

- Dissemination of Data:
 - Briefs
 - Facts Sheets
 - Supplements
 - *Reports*
 - *Manuscript*
 - Other dissemination tools
 - Internet
 - Partners
- Data Release Estimated date: Fall, 2010
- ***Identify resources to continue HINTS-PR***