



Tdap Coverage Rates During a Major Pertussis Outbreak: Results From a Cross-sectional Survey of Adults in San Diego County

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Objectives

- Monitor Tdap coverage rates for San Diego County
- Analyze factors associated with receipt of Tdap
- Measure community's knowledge and attitudes concerning Tdap vaccine

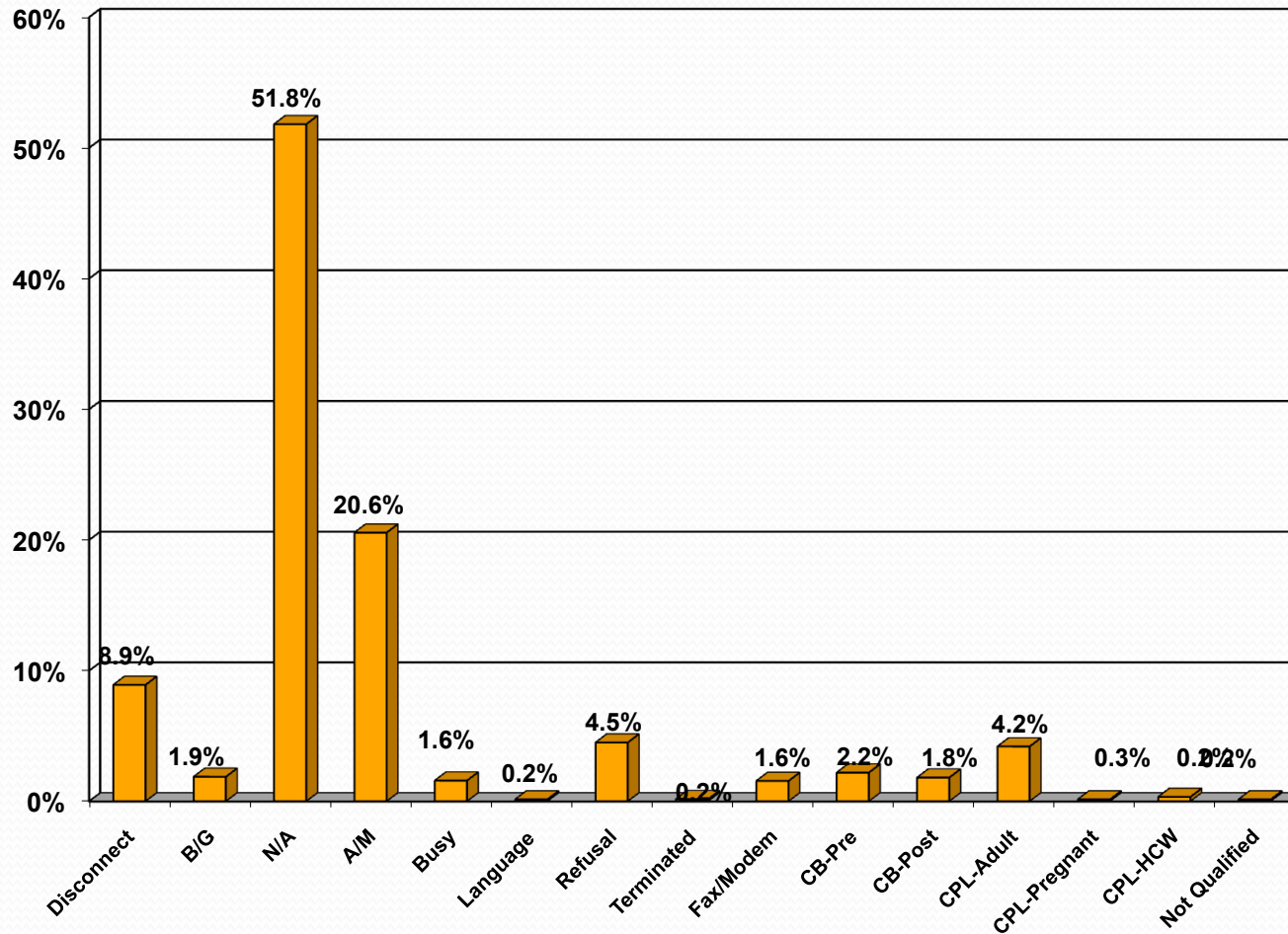
Methods (1)

- Random Digit Dialing telephone surveys
- Multi-lingual interviewers
- Survey schedule: Weekdays 5-9pm & Saturday 10am-2pm
- Vaccination status from recall

Methods (2)

- Telephone numbers from Scientific Telephone Samples (STS)
 - Prescreen phone numbers
 - Include cell phone numbers
 - Exclude government & business numbers
- Age of eligible respondents: ≥ 18 years
- Survey Timeframe: June 28 – October 8, 2010

Type of Calls



Total calls: 35,115

Completed Surveys: 1,642

Response Rate: 96.5%*

Disconnect = phone number was disconnected
 N/A = No Answer
 Language = something other than English or Spanish

B/G = Business/Government
 A/M = Answering Machine
 CPL = Completed Survey
 CB = Call back (Pre=before screener/Post=after screener)



Age Distribution

RDD Telephone Survey 2010

Age in years	Sample n (%)	SANDAG 2010 N (%)
18-49	740 (57.8)	1,515,492 (73.0)
50-64	541(42.2)	560,033 (27.0)
Total:	1,281	2,075,525

Health Care Worker (HCW): 157

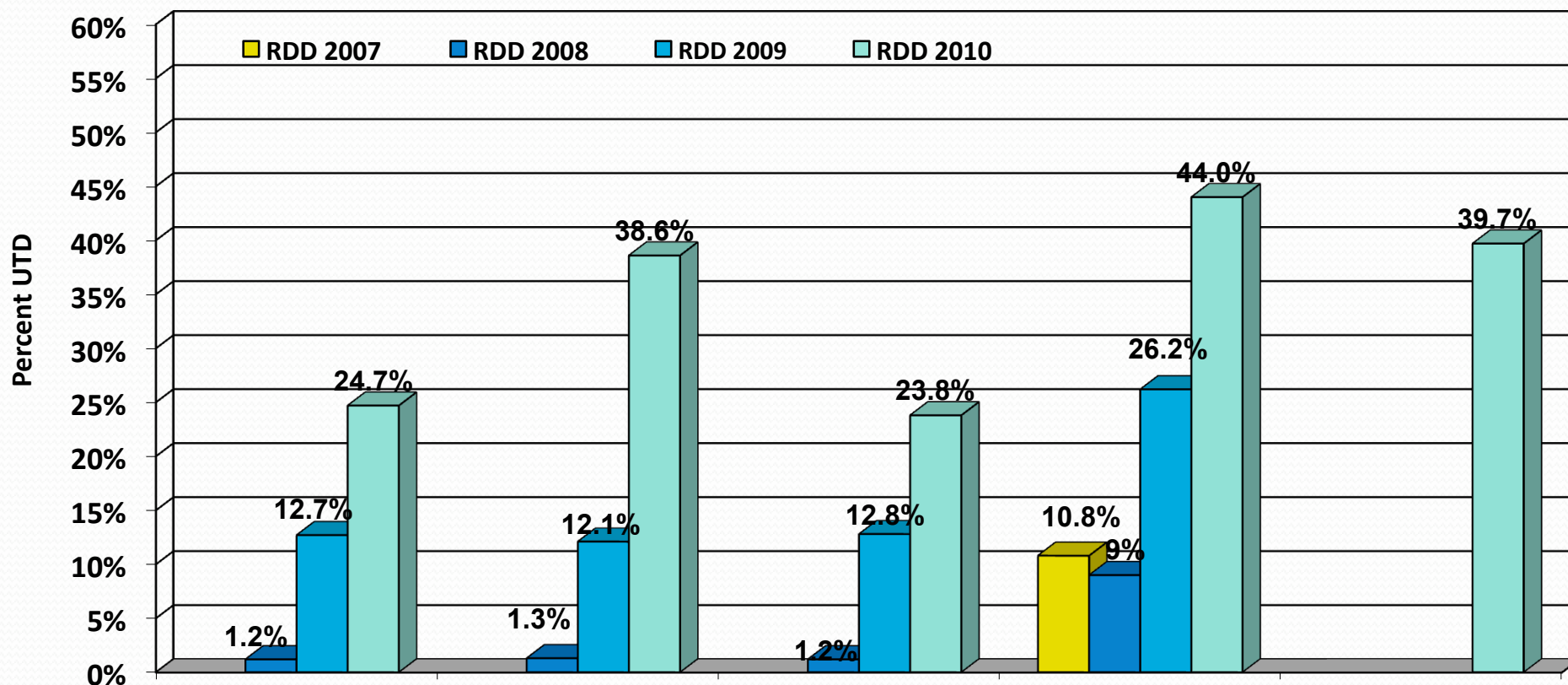
Pregnant or had a baby within last 6 months: 73

Race/Ethnicity Distribution

RDD Telephone Survey 2010

Ethnicity	18-49 n (%)	50-64 n (%)
White	329(44.5)	357(66.0)
Black	28(3.8)	20(3.7)
Hispanic	257(34.7)	91(16.8)
Asian/Pacific Islander	57(7.7)	27(5.0)
Other	53(7.2)	31(5.7)
Don't know/ refused*	16(2.2)	15(2.8)
Total:	740 (57.8)	541(42.3)

Tdap Coverage Rates: San Diego County 2008-2010



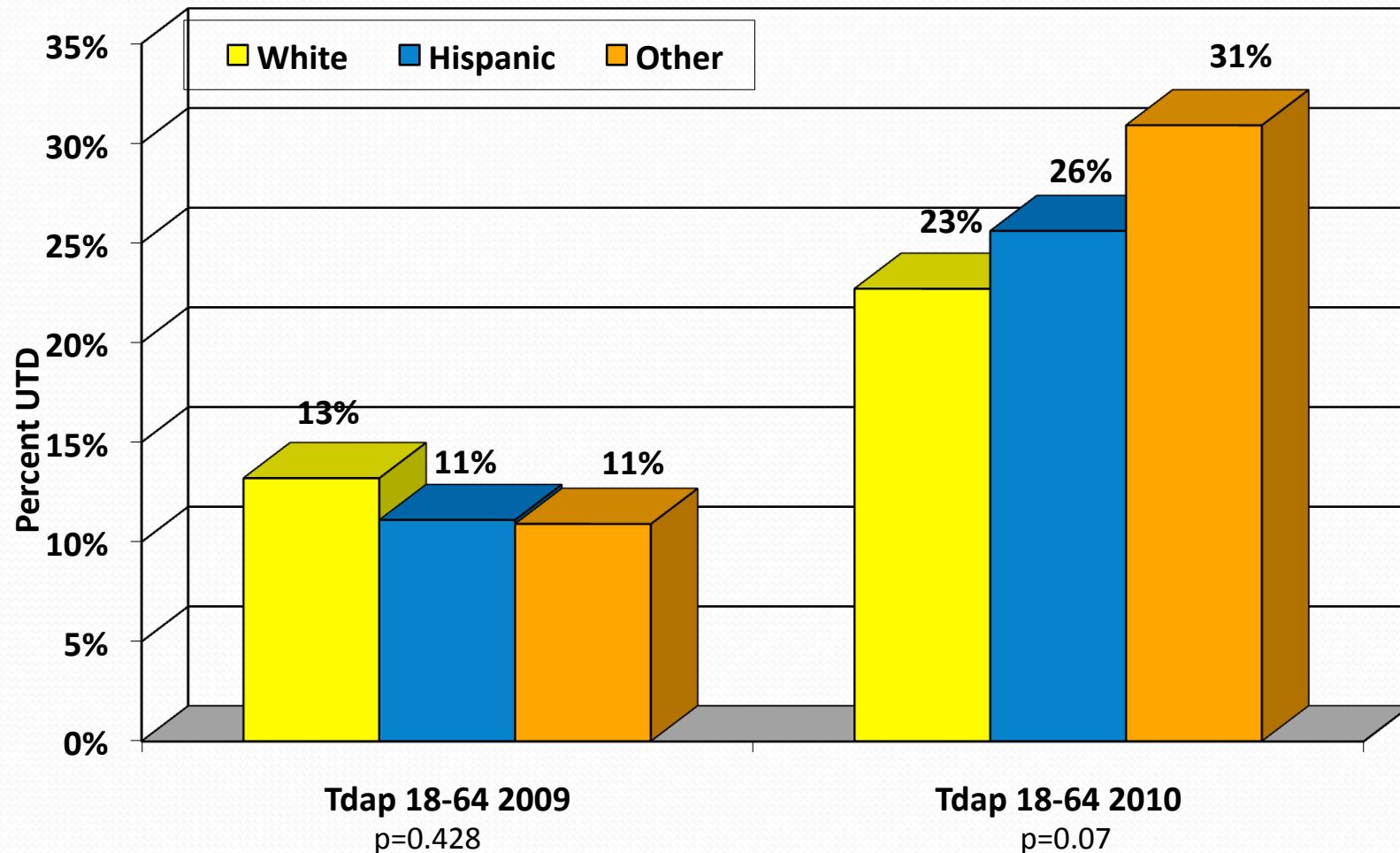
	Total Population 18-64	18-64 years with child under 5 in the home*	18-64 years no child under 5 in the home	HCW 18-64	Pregnant Women/Postpartum women
2008:	n=2,833	n=596	n=3,429	2007: n=733 2008: n=497	NA
2009	n=1,730	n=140	n=1,870	n=195	NA
2010	n=1,060	n=57	n=1,119	n=57	n=73
2009:2010	p<0.001	p<0.001	p<0.001	p<0.001	

*2010 question was if a child 12 months or less was in the home

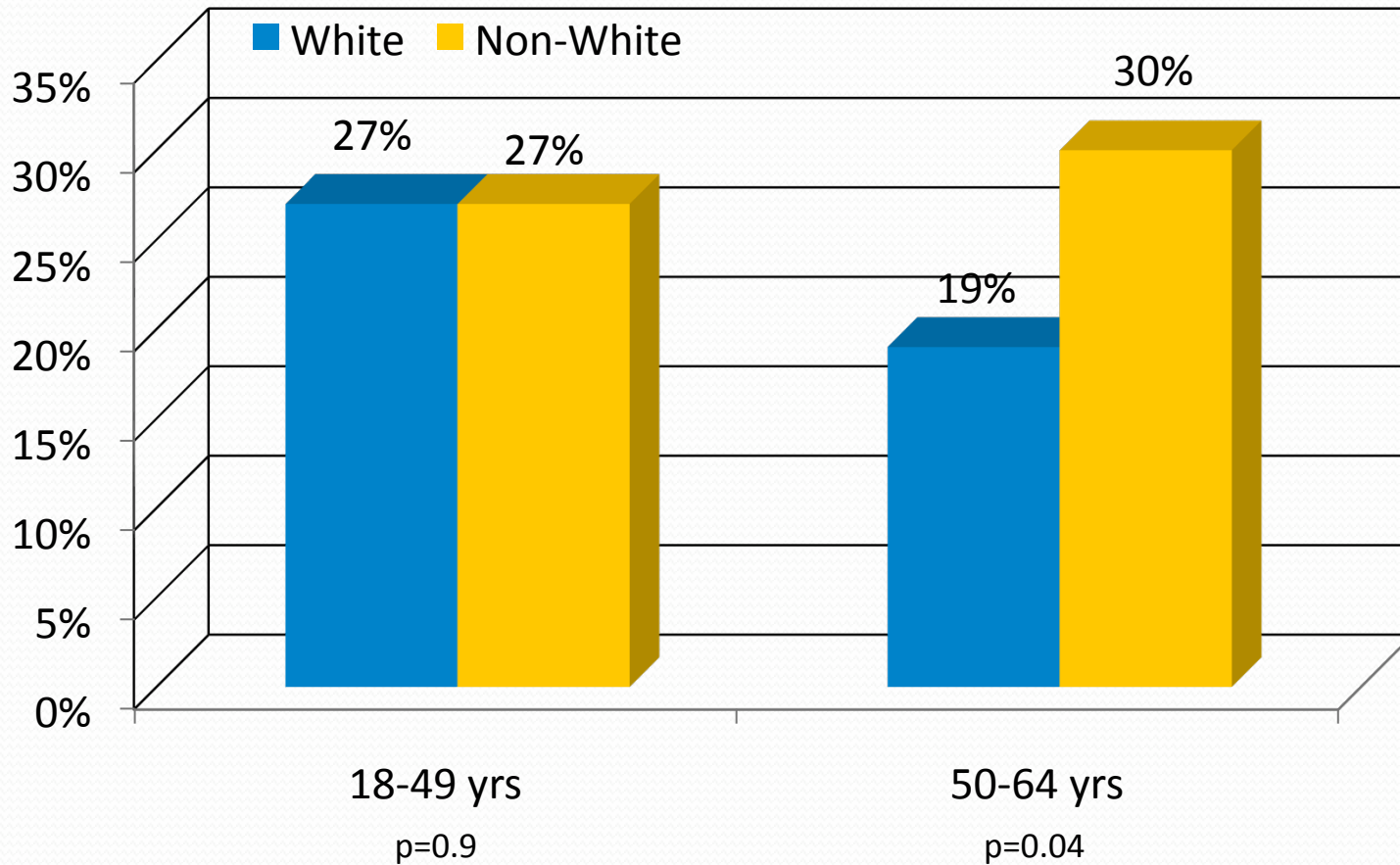
HCWs not excluded from other categories

Tdap Coverage Rates by Race/Ethnicity:

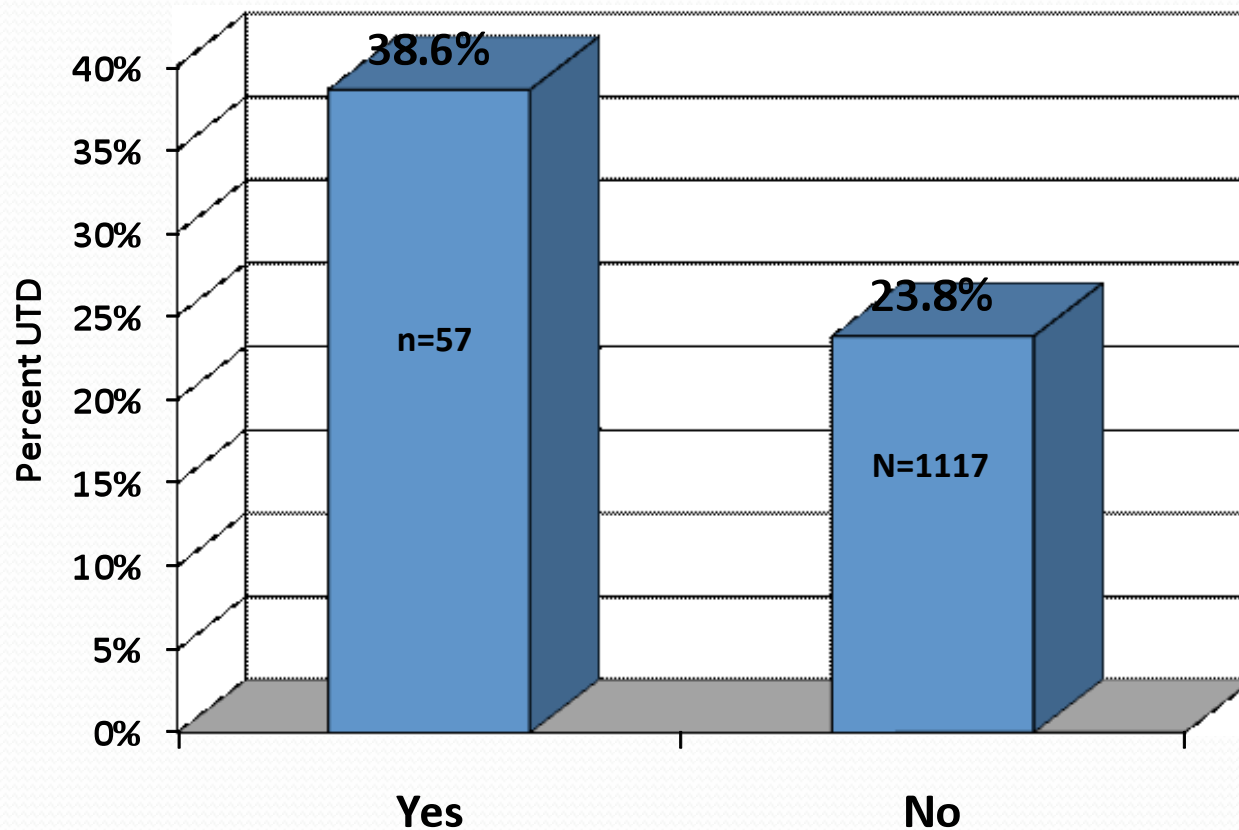
RDD Telephone Surveys 2009 & 2010



Tdap Coverage Rates in Two Age Groups by Race/Ethnicity: RDD Telephone Surveys 2010

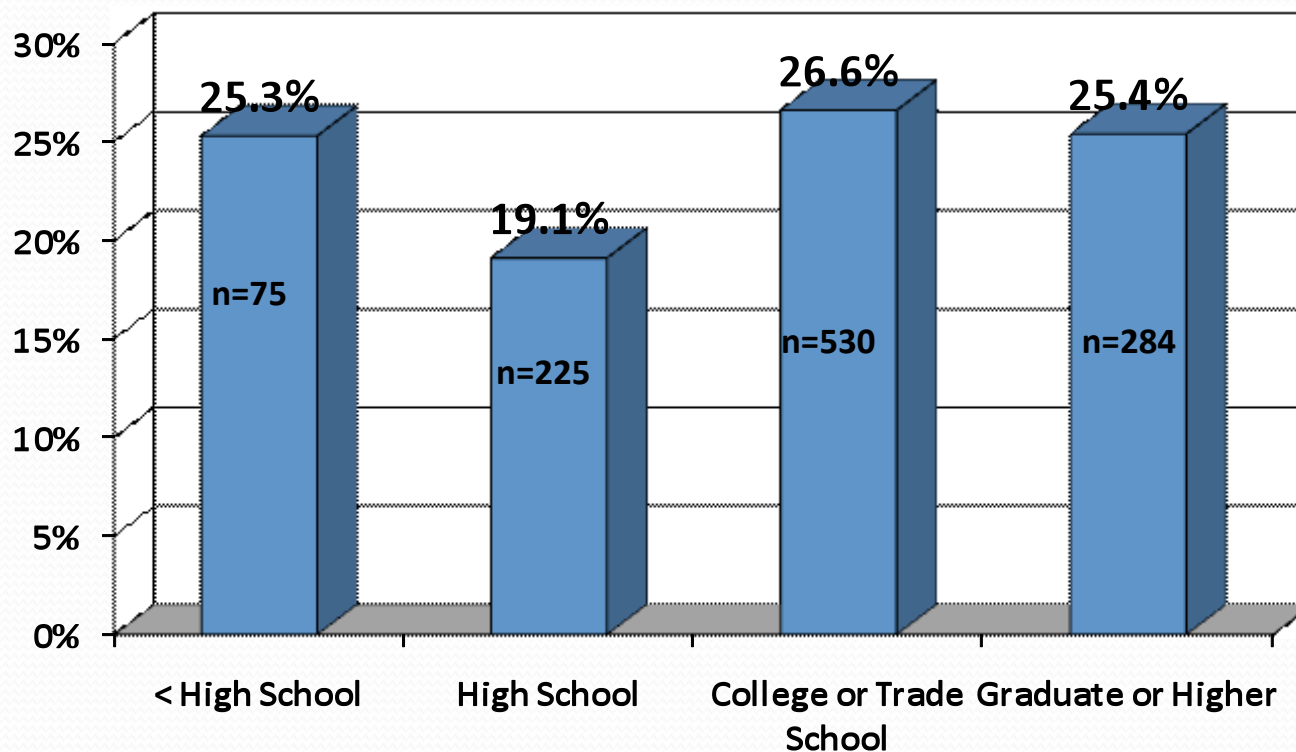


Tdap Coverage Rates for Those <65 Years with a Child <12 Months in the Home: RDD Telephone Surveys 2010



p=0.011

Tdap Coverage Rates by Education for Those <65 : RDD Telephone Surveys 2010



p=0.180

Tdap Knowledge/Attitudes

RDD Telephone Surveys 2010

- Where did you get the Tdap vaccine?
 - 67.3%: their doctor's office or other medical office
 - 10.2%: workplace
 - 0.2% (2 respondents): pharmacy
- What is the main reason you have not received a Tdap vaccine?
 - 65.8%: didn't know I needed it/hasn't been recommended to me/no one told me to get it
 - 14.7%: I am healthy/don't need it

Conclusions

- Coverage rates of Tdap vaccine have increased considerably since 2008
- Majority of adults still not immunized
- Significant room for education on Tdap vaccine
- Is there a health disparity?

Limitations

- Telephone Survey
- Volunteer bias
- Recall bias

Acknowledgements

Kathryn McAuliffe, MPH

Michelle Rubio

Mark Sawyer, MD

K. Michael Peddecord, DrPH

Karen Waters-Montijo, MPH

Wilma Wooten, MD, MPH