

Assessing Vaccination Coverage in Texas

Service Data and Coordination Group
November 2007

Current Population Based Surveys in Texas

- National Immunization Survey (NIS)
- Annual Report of Immunization Status
- Validation Survey
- Childcare Assessment (CCA)
- Texas County Retrospective Immunization School Survey (TCRISS) – Small Area Analysis

Agenda

- NIS and TCRISS
 - History
 - Advantages/Limitations
 - Select Results (Small Area Analysis)

NIS History

- In 1993, the NIS was Established as a Joint Effort Between the National Center for Health Statistics (NCHS) and the National Immunization Program (NIP) to meet the federal Childhood Immunization Initiative, which Established Coverage Goals for Preschool Children
- The Survey Began in April 1994 and is Currently On-Going

NIS Background

- National Random-Digit-Dialing (RDD) Telephone Survey
 - Queries Parents of Children 19 to 35 Months on their Child's Vaccination History and Some Demographics
 - Parental Consent to Contact Child's Immunization Provider
 - Estimates Coverage By State and 28 Selected Urban Areas
 - Goal is to Complete 34,500 Nationwide Surveys Each Year

NIS

- Limitations
 - Non-Telephone Bias
 - Non-Responses
 - *No Vaccination Coverage Estimates for Population Subgroups or Small Areas*
- Advantages
 - Much Lower Cost than an In-Person Household Interviews / CATI
 - Vaccination Coverage Estimates are Based on Provider Data

Small Area Analysis History

- In 2001, DSHS contracted with the Public Policy Research Institute (PPRI) at Texas A&M
- Developed a new methodology to provide *county level* immunization rate estimates
- Compared different data collection procedures (school immunization records, telephone interview, household interview)

Small Area Analysis Background

- Advantages:
 - Lower cost compared to other methodologies
 - One immunization record in one location
 - 90% of the birth cohort attend public kindergarten in Texas
- Limitations:
 - Data are at least three years old
 - Not a measure of current vaccination coverage
 - Can't assess effectiveness of current interventions

TCRISS Process

- DSHS Austin epidemiologists:
 - provide a list of schools to target and the number of records to pull per school
 - Run the analysis of the data using stat software that takes into consideration survey design
 - Provide written report back to LHD/HSR

TCRISS Process

- LHDs/HSRs:
 - contact schools
 - collect immunization records
 - enter data into CoCASA
 - submit CoCASA records to DSHS Austin for analysis

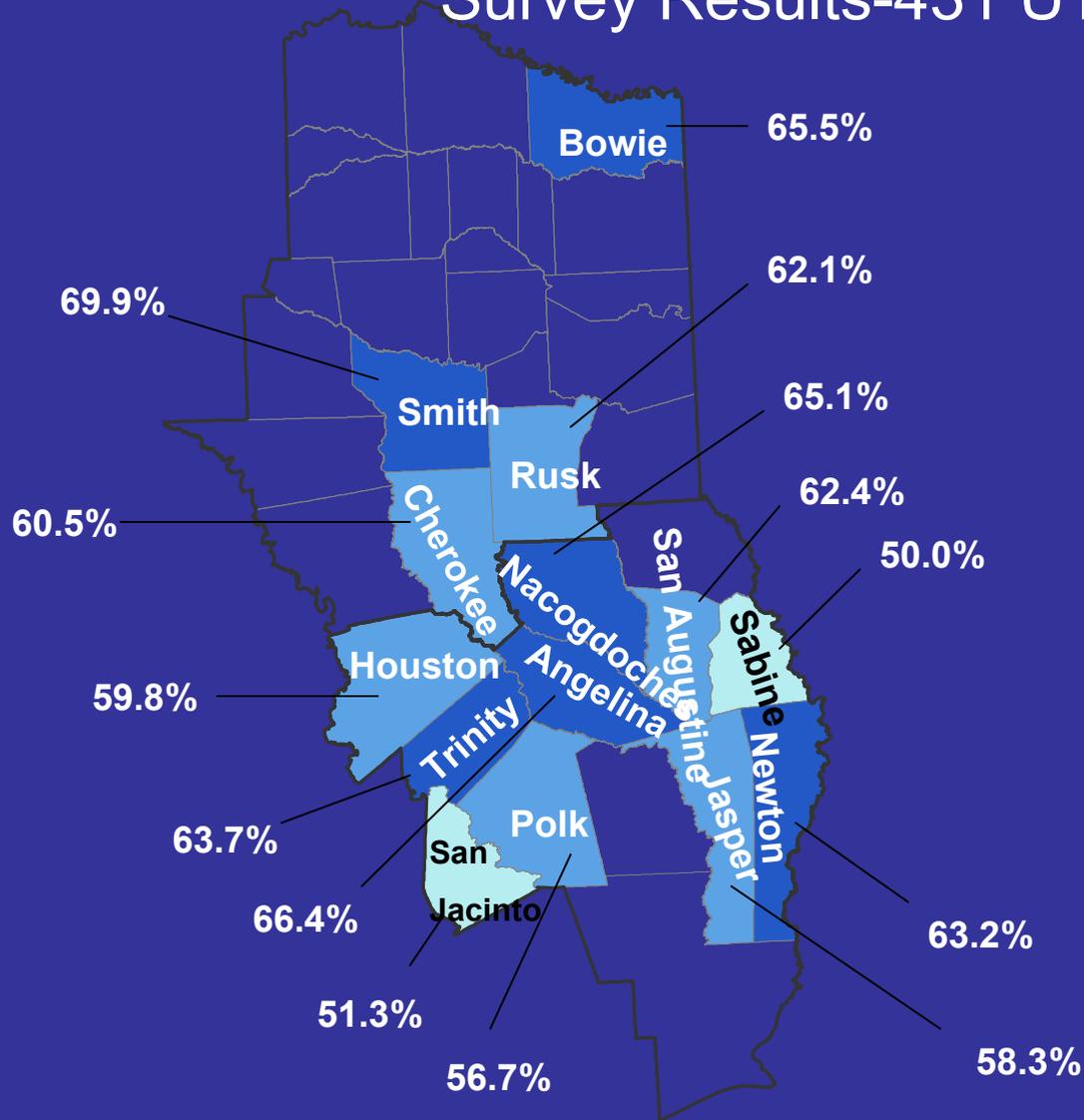
Note on CASA/CoCASA

- Software programs developed primarily for conducting **individual provider** assessments
- Used for population assessments **ONLY** as a data collection tool
- The CoCASA reports *will not provide an accurate immunization rate* for population assessment surveys unless all age eligible children in the county are included

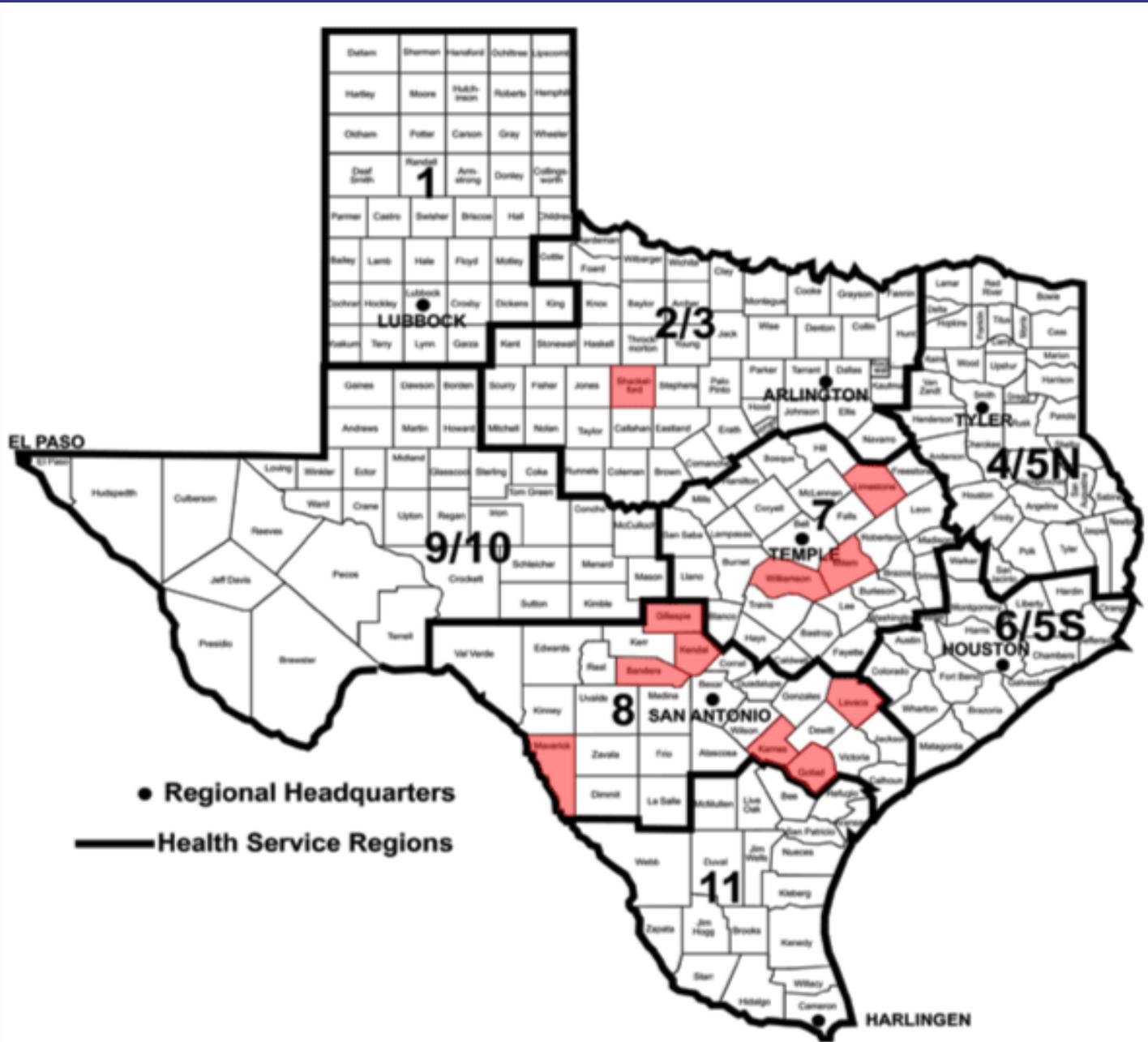
Current Status

- Using the PPRI methodology, to date 26 county retros conducted
 - In 2004, 14 were conducted in HSR 4/5N for KG cohort in SY 2003/2004
 - In 2006, a retro was conducted in McLennan County (HSR 7) for KG cohort in SY 2005/2006
 - In 2006, 11 were conducted in HSR 2/3, 7, and 8 for KG cohort in SY 2006/2007

Region 4/5 North 2003 Retro Immunization Survey Results-431 UTD



2006 Retro Immunization Survey Counties

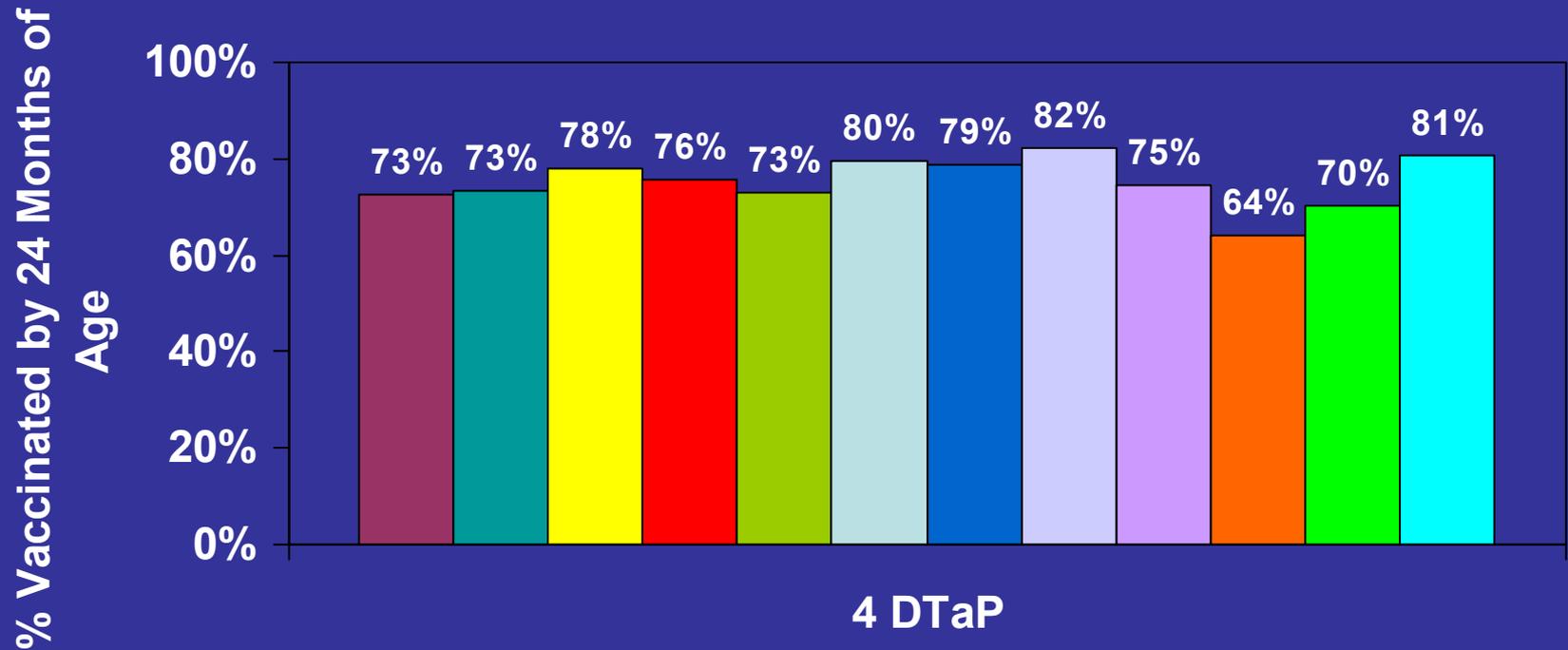


2005/2006 TCRISS Select Results – Vaccine Series, by 24 Months

County	Region	4:3:1	4:3:1:3:3	4:3:1:3:3:1
McLennan	7	71%	67%	53%
Limestone	7	68%	65%	57%
Shackelford	2/3	71%	62%	60%
Maverick	8	74%	72%	68%
Gillespie	8	70%	67%	63%
Milam	8	68%	62%	56%
Williamson	7	76%	71%	66%
Bandera	8	77%	73%	66%
Kendall	8	80%	77%	71%
Karnes	8	60%	58%	53%
Goliad	8	69%	68%	65%

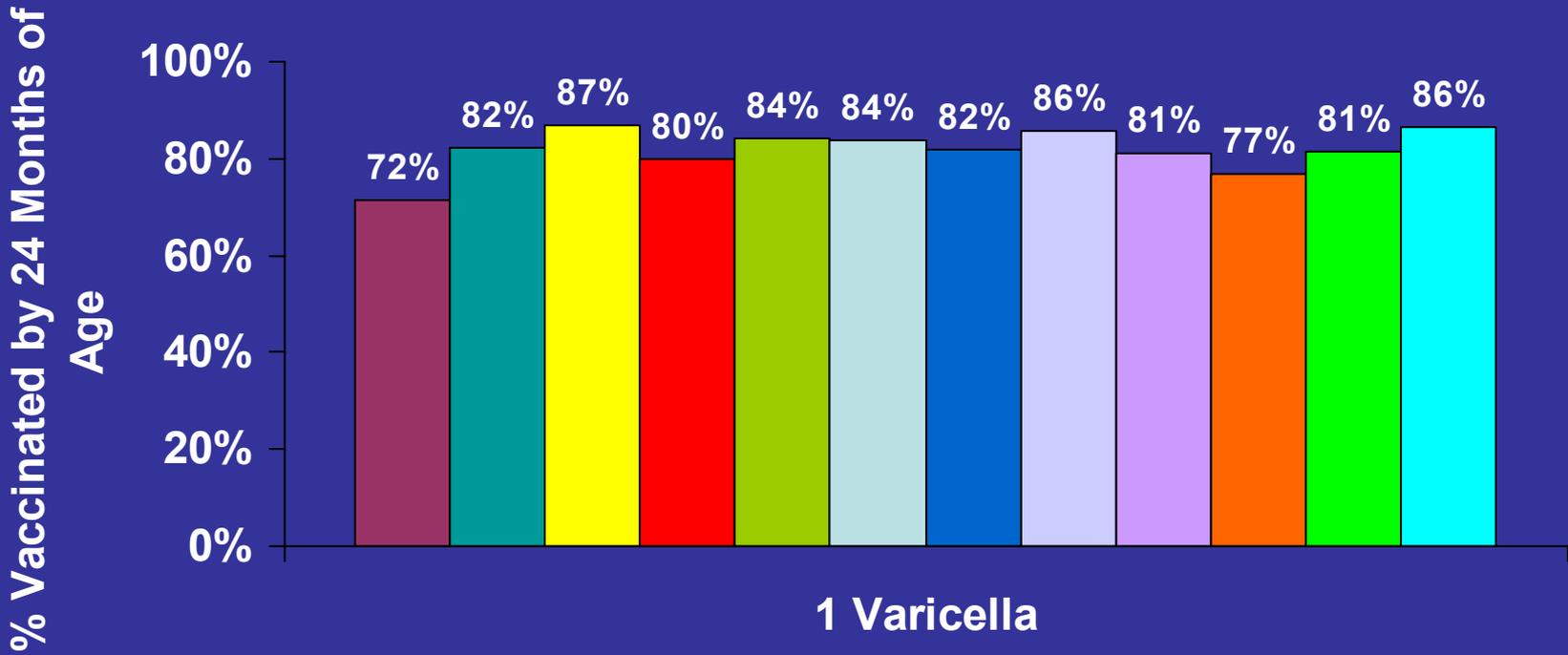
2005/2006 TCRISS Select Results

4th DTaP, by 24 Months



2005/2006 TCRISS Select Results

1 Var



Limestone	Shackelford	Maverick	Gillespie
Milam	Williamson	Bandera	Kendall
McLennan	Karnes	Goliad	Lavaca

2005/2006 TCRISS Select Results Other, by 24 Months

- TCRISS Results Also Include County Vaccination Coverage Levels for :
 - 3 doses of Polio
 - 1 dose of MMR
 - 3 doses of Hib
 - 3 doses of Hep B
 - 3 doses of PCV (when available)
 - 1 and 2 doses of Hep A (when available)

Additional Requests for TCRISS Analysis, SY2006/2007

- Counties that currently have sample sets to complete a 2006 Small Area Analysis

HSR	County
1	Lubbock
1	Randall
2/3	Grayson
2/3	Comanche
2/3	Taylor
7	Bell
7	Brazos
7	McLennan
7	Milam
7	Travis
7	Williamson
8	Kerr
9/10	Terrell

Implications For TCRISS

- County Level Data can be Available to Better Identify 'Pockets of Need' within the State
- Immunization Coverage Rates can be Utilized with Other Demographic Data, when Available, to Further Assess the Needs of Specific Target Populations
- Identify Further Education and Outreach Opportunities
- Baseline Data to Monitor Change of Vaccination Coverage Rates Over Time

Questions?

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