



Translating percentages into estimated numbers of children/youth

EXAMPLE

Using information from the data query table on page 2

STEP 1: State your question.

Example: In Texas, how many Hispanic children ages 0-17 were without health insurance at the time of the survey?

STEP 2: Determine the estimated number of children in the group you want to focus on. This is your “population of interest.”

Example: The 2003 National Survey of Children’s Health estimates the number of Hispanic children ages 0-17 living in **TEXAS** to be about 2,499,063 (see attached data table).

2,499,063 **(A)**

STEP 3: Select the specific characteristic you want to report about your population of interest. This is the “characteristic of interest.”

Example: Hispanic children without health insurance is our “characteristic of interest.” In **TEXAS**, about **28.1%** of Hispanic children ages 0-17 did not have health insurance at the time of the survey (see attached data table).

28.1% of Hispanic children in TX were uninsured at the time of the survey

STEP 3a: What is the Lower 95% Confidence Limit of percent reported for the group having the characteristic of interest? (see attached data table)

24.5% **(B)**

STEP 3b: What is the Upper 95% Confidence Limit of percent reported for the group having the characteristic of interest? (see attached data table)

31.6% **(C)**

STEP 4: Calculate the numbers of children represented by the Lower and Upper Confidence Limits for the percent of children in your population of interest with the characteristic you are reporting:

Formula to calculate number for Lower Confidence Limit: **(B / 100) X A**
Example using the figures for Texas listed in right column:
 $(24.5 / 100) \times 2,499,063 = 612,270$

612,270

Formula to calculate number for Upper Confidence Limit: **(C / 100) X A**
Example using the figures for Texas listed in right column:
 $(31.6 / 100) \times 2,499,063 = 789,704$

789,704

STEP 5: Put your findings into words:

Using **Upper and Lower 95% Confidence Limits** results from above we can now say:

“According to the 2003 National Survey of Children’s Health, about 28% of Hispanic children ages 0-17 living in **TEXAS** were uninsured at the time of the survey. Taking sampling error into account, it is estimated that between **612,270** and **789,704** Hispanic children in **TEXAS** were without health insurance at the time of survey.”

Data Query Results Table Used in Example on Page 1

Your Search Criteria

Survey: NSCH-2003
Starting Point: Child Health Measures
State/Region: Texas
Topic: Health Insurance Coverage
Question: 3.1: Health insurance status ([details...](#))
Sub Group: Race/ethnicity of child

Actions

Compare States:

 Compare Subgroups:

[Pick a new question, topic or survey](#) ▶▶

Indicator 3.1: Does (child's name) have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicaid? ([details](#))
 NSCH-2003, Texas, Race/ethnicity of child

Characteristic of Interest
 "Uninsured Hispanic children"

For a detailed explanation of the data MOVE your cursor over the text in the table or the bold text below

		No	Yes	Total %
Hispanic	%	28.1	71.9	100.0
	C.I.	(24.5 - 31.6)	(68.4 - 75.5)	
	n	240	685	
	Pop. Est.	701,255	1,797,808	2,499,063
White	%	8.1	91.9	100.0
	C.I.	(6.1 - 10.1)	(89.9 - 93.9)	
	n	75	854	
	Pop. Est.	209,295	2,370,565	
Multi-racial	%	14.9	85.1	100.0
	C.I.	(8.8 - 21.0)	(79.0 - 91.2)	
	n	24	169	
	Pop. Est.	110,792	633,912	
Other	%	4	96	100
	C.I.	(0.0 - 20.2)		
	n	11,615	40	
	Pop. Est.	33,181	134,428	

Population of Interest
 "Hispanic children"

Estimated Number of Children in Population of Interest
 "2,499,063 Hispanic children ages 0-17 in TX"

Upper and Lower 95% Confidence Limits for group with Characteristics of Interest
24.5% - 31.6%

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WORKSHEET

STEP 1: State your question:

STEP 2: Identify your **“population of interest.”**

Enter the number of children estimated to be in the population of interest on Line (A) in the column on the right.

_____ (A)
of children in population
of interest

STEP 3: Determine the **specific characteristic** you will report for the population of interest. What percent of children in your population of interest have this characteristic? Enter the % in the column at the right.

(_____ %)
% of children with characteristic of
interest

STEP 3a: Enter the **Lower 95% Confidence Limit** for the percent reported for the group having the characteristic of interest on the Line B in the column on the right.

_____ (B)
Lower 95% Conf. Limit %

STEP 3b) Enter the **Upper 95% Confidence Limit** for the percent reported for the group having the characteristic of interest on the Line C in the column on the right.

_____ (C)
Upper 95% Conf. Limit %

STEP 4: Calculate the numbers of children in your population of interest that are represented by the Lower and Upper Confidence Limits of the percent with the specific characteristic you are reporting.

Insert the figures from the column on the right above into the corresponding spaces below.

Calculate number for **Lower Confidence Limit:**

$$\left(\frac{\text{_____}}{100} \right) \times \text{_____} =$$

(B) (A)

_____ =
of children represented by Lower
Conf. Limit %

Calculate number for **Upper Confidence Limit:**

$$\left(\frac{\text{_____}}{100} \right) \times \text{_____} =$$

(C) (A)

_____ =
of children represented by Upper
Conf. Limit %

STEP 5: Put your findings into words:

EXAMPLE: “In [country, state, region], between [number of children calculated for Lower Confidence Limit] and [number of children calculated for Upper Confidence Limit] in [population of interest] experience / have / report, etc. [characteristic of interest].”