

HEALTH POLL:

# Vaccinations

May 2015

## SURVEY OVERVIEW

Each month, the Truven Health Analytics™-NPR Health Poll surveys approximately 3,000 Americans to gauge attitudes and opinions on a wide range of healthcare issues. Poll results are reported by NPR on the health blog Shots (<http://www.npr.org/blogs/health/>) and on air.

The Truven Health Analytics-NPR Health Poll is powered by the Truven Health Analytics PULSE® Healthcare Survey, an independently funded multi-modal (land line, cell phone, internet) survey that collects information from more than 82,000 U.S. households annually.

The results depicted here represent responses from 3,004 survey participants interviewed from March 2-14, 2015. The margin of error is +/- 1.8 percent.

NPR's reports on the findings are archived here: <http://www.npr.org/templates/search/index.php?searchinput=truven+health&dateId=0&programId=0>

# Executive Summary

## The survey asked respondents' opinions on vaccinations.

This survey asked adults of all ages, with and without children, about their concerns and beliefs around vaccinations for children. Among respondents with no children, 87 percent expressed no concerns regarding vaccinations. However, among those with children, only 72 percent reported no concern while 28 percent indicated they have concerns. The leading identified concerns were negative side effects and the possibility that vaccinations could cause illnesses or chronic conditions.

A large majority of respondents (91 percent) agree that all children attending public schools should be required to have vaccinations. But, when asked if all children should be vaccinated regardless of the type of school they attend, the agreement rate fell to 83 percent among respondents with children while 89 percent of respondents without children agreed that all should receive vaccinations.

More than a third of adults with children support exemptions from vaccinations for personal or religious reasons, while just over a quarter of those without children support exemptions.

Additional results from the survey:

- 13 percent of all respondents with NO children indicated they had concerns regarding vaccinations; 28 percent of all respondents WITH children indicated they had concerns regarding vaccinations and this is statistically different than the result for respondents with NO children. This rate tends to decrease with both increasing age and income.
- 28 percent of respondents with NO children support allowing exemptions from vaccinations for personal or religious reasons; 38 percent of respondents WITH children support allowing exemptions from vaccinations for personal or religious reasons and is statistically different than respondents with NO children.
- 91 percent of respondents with NO children and also respondents WITH children indicated that all children attending public schools should be required to have recommended vaccinations; millennials WITH children are among the most likely (95 percent) to agree. Overall, this rate tends to increase with increasing level of education for respondents WITH children.
- 97 percent of respondents WITH children indicated that their children had received all of the recommended vaccinations, a rate that tends to increase with increasing age but decrease with increasing level of education.
- Among respondents WITH children who have not had all the recommended vaccinations, the top-cited reason was Religious.
- 63 percent of respondents whose children have not had all the recommended vaccinations indicated they would get the recommended vaccinations, a rate that tends to increase with increasing level of education.

# Survey Data

**Note: Bolded** figures are statistically significant within Children or No Children category.

**Note: Purple bolded** figures are statistically significant at Children/No Children category level only.

**Note:** Care should be taken with interpretations for questions 7, 8, and 13 due to small sample sizes.

## Questions 1 and 12

Do you have any concerns regarding vaccinations for children?

	No Children		Children	
	Yes	No	Yes	No
<b>Age</b>				
<35	18.8%	81.2%	34.6%	65.4%
35 - 64	8.7%	91.3%	25.3%	74.7%
65+	14.3%	85.7%	<b>6.7%</b>	<b>93.3%</b>
<b>Total</b>	12.5%	87.5%	<b>28.3%</b>	<b>71.7%</b>
<b>Education</b>				
HS or Less	13.8%	86.2%	26.9%	73.1%
Some College/Assoc	13.9%	86.1%	23.7%	76.3%
College+	10.4%	89.6%	32.1%	67.9%
<b>Total</b>	12.5%	87.5%	<b>28.3%</b>	<b>71.7%</b>
<b>Generation</b>				
Silent Generation	10.0%	90.0%	<b>3.2%</b>	<b>96.8%</b>
Baby Boomers	11.4%	88.6%	<b>10.3%</b>	<b>89.7%</b>
Generation X	10.3%	89.7%	29.0%	71.0%
Millennials	19.2%	80.8%	33.8%	66.2%
<b>Total</b>	12.5%	87.5%	<b>28.3%</b>	<b>71.7%</b>
<b>Income</b>				
<\$25k	11.3%	88.7%	32.7%	67.3%
\$25k - \$49.9k	13.1%	86.9%	30.2%	69.8%
\$50k - \$99.9k	13.4%	86.6%	26.1%	73.9%
\$100k+	10.5%	89.5%	24.7%	75.3%
<b>Total</b>	12.5%	87.5%	<b>28.3%</b>	<b>71.7%</b>

## Question 2

What is your main concern?

	No Children							
	Cause Illness	Side Effects	Pre-servatives	Don't Trust MD	MD/Pharma Relationship	Don't Trust Pharma	Illness Not So Bad	Other
<b>Age</b>								
<35	32.2%	41.2%	5.5%	0.0%	0.0%	10.9%	3.5%	<b>6.8%</b>
35 - 64	19.0%	26.9%	0.7%	6.6%	6.7%	5.1%	0.6%	34.5%
65+	19.6%	13.1%	2.8%	0.0%	0.0%	3.9%	1.9%	58.7%
<b>Total</b>	23.1%	26.1%	2.8%	2.3%	2.3%	6.3%	1.9%	35.2%
<b>Education</b>								
HS or Less	40.8%	24.3%	0.0%	0.0%	7.1%	6.2%	0.0%	21.7%
Some College/Assoc	16.5%	34.4%	5.7%	0.0%	0.0%	10.8%	1.7%	31.0%
College+	12.8%	18.8%	2.5%	7.0%	0.0%	1.7%	4.0%	53.1%
<b>Total</b>	23.1%	26.1%	2.8%	2.3%	2.3%	6.3%	1.9%	35.2%
<b>Generation</b>								
Silent Generation	6.9%	13.7%	3.0%	0.0%	0.0%	6.7%	0.0%	<b>69.8%</b>
Baby Boomers	24.6%	16.5%	2.2%	0.0%	0.0%	2.5%	2.3%	52.0%
Generation X	17.0%	30.4%	0.0%	11.7%	11.8%	7.0%	0.0%	22.2%
Millennials	32.2%	41.2%	5.5%	0.0%	0.0%	10.9%	3.5%	6.8%
<b>Total</b>	23.1%	26.1%	2.8%	2.3%	2.3%	6.3%	1.9%	35.2%
<b>Income</b>								
<\$25k	17.3%	28.1%	3.4%	0.0%	9.6%	6.6%	0.3%	34.7%
\$25k - \$49.9k	26.8%	15.0%	5.5%	0.0%	0.0%	13.9%	2.0%	36.8%
\$50k - \$99.9k	37.2%	35.3%	1.0%	0.0%	0.0%	3.4%	4.0%	19.2%
\$100k+	<b>4.9%</b>	34.1%	1.3%	21.8%	0.0%	0.0%	1.8%	36.1%
<b>Total</b>	23.1%	26.1%	2.8%	2.3%	2.3%	6.3%	1.9%	35.2%

### Question 13

What is your main concern?

	Children							
	Cause Illness	Side Effects	Pre-servatives	Don't Trust MD	MD/Pharma Relationship	Don't Trust Pharma	Illness Not So Bad	Other
<b>Age</b>								
<35	37.1%	46.8%	0.8%	4.9%	4.4%	0.8%	0.0%	<b>5.2%</b>
35 - 64	17.4%	26.3%	6.4%	1.4%	2.7%	9.0%	0.7%	36.2%
65+	40.4%	39.8%	0.0%	0.0%	0.0%	0.0%	0.0%	19.8%
<b>Total</b>	26.6%	35.8%	3.8%	3.0%	3.5%	5.2%	0.4%	21.9%
<b>Education</b>								
HS or Less	40.4%	28.4%	0.0%	0.0%	0.0%	6.4%	0.0%	24.9%
Some College/Assoc	15.3%	42.1%	3.3%	0.0%	2.3%	12.5%	0.0%	24.4%
College+	26.9%	35.5%	5.6%	5.7%	5.4%	0.9%	0.7%	19.4%
<b>Total</b>	26.6%	35.8%	3.8%	3.0%	3.5%	5.2%	0.4%	21.9%
<b>Generation</b>								
Silent Generation	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Baby Boomers	24.2%	38.8%	3.5%	0.0%	0.0%	4.5%	0.0%	28.9%
Generation X	22.9%	24.0%	6.6%	1.3%	3.2%	8.3%	0.6%	33.0%
Millennials	31.8%	51.5%	0.0%	5.5%	4.2%	0.9%	0.0%	6.0%
<b>Total</b>	26.6%	35.8%	3.8%	3.0%	3.5%	5.2%	0.4%	21.9%
<b>Income</b>								
<\$25k	32.1%	34.8%	0.0%	9.0%	0.0%	13.1%	0.0%	11.0%
\$25k - \$49.9k	21.2%	40.4%	2.4%	0.0%	1.5%	4.6%	0.5%	29.3%
\$50k - \$99.9k	34.8%	44.2%	3.4%	2.8%	2.0%	2.2%	0.0%	10.6%
\$100k+	20.1%	11.3%	13.8%	0.0%	15.7%	0.0%	1.3%	37.7%
<b>Total</b>	26.6%	35.8%	3.8%	3.0%	3.5%	5.2%	0.4%	21.9%

### Questions 3 and 9

Do you support or oppose children being exempted from having vaccinations due to their family's personal or religious beliefs?

	No Children		Children	
	Support	Oppose	Support	Oppose
<b>Age</b>				
<35	35.5%	64.5%	39.0%	61.0%
35 - 64	24.2%	75.8%	36.6%	63.4%
65+	29.7%	70.3%	39.1%	60.9%
<b>Total</b>	28.2%	71.8%	<b>37.6%</b>	<b>62.4%</b>
<b>Education</b>				
HS or Less	31.2%	68.8%	35.1%	64.9%
Some College/Assoc	34.4%	65.6%	32.4%	67.6%
College+	21.0%	79.0%	41.9%	58.1%
<b>Total</b>	28.2%	71.8%	<b>37.6%</b>	<b>62.4%</b>
<b>Generation</b>				
Silent Generation	33.0%	67.0%	34.3%	65.7%
Baby Boomers	<b>21.1%</b>	<b>78.9%</b>	39.9%	60.1%
Generation X	32.9%	67.1%	36.9%	63.1%
Millennials	34.9%	65.1%	37.9%	62.1%
<b>Total</b>	28.2%	71.8%	<b>37.6%</b>	<b>62.4%</b>
<b>Income</b>				
<\$25k	32.8%	67.2%	36.1%	63.9%
\$25k - \$49.9k	32.5%	67.5%	39.1%	60.9%
\$50k - \$99.9k	22.8%	77.2%	41.3%	58.7%
\$100k+	18.1%	81.9%	36.4%	63.6%
<b>Total</b>	28.2%	71.8%	<b>37.6%</b>	<b>62.4%</b>

## Questions 4 and 10

Do you believe that children attending public school should be required to have all the recommended vaccinations, unless they are medically unable to do so?

	No Children		Children	
	Yes	No	Yes	No
<b>Age</b>				
<35	84.5%	15.5%	94.0%	6.0%
35 - 64	92.9%	7.1%	88.4%	11.6%
65+	91.4%	8.6%	94.8%	5.2%
<b>Total</b>	90.8%	9.2%	90.7%	9.3%
<b>Education</b>				
HS or Less	91.9%	8.1%	87.7%	12.3%
Some College/Assoc	86.1%	13.9%	89.8%	10.2%
College+	93.8%	6.2%	92.7%	7.3%
<b>Total</b>	90.8%	9.2%	90.7%	9.3%
<b>Generation</b>				
Silent Generation	94.4%	5.6%	96.6%	3.4%
Baby Boomers	93.3%	6.7%	93.3%	6.7%
Generation X	88.5%	11.5%	87.3%	12.7%
Millennials	85.4%	14.6%	95.0%	5.0%
<b>Total</b>	90.8%	9.2%	90.7%	9.3%
<b>Income</b>				
<\$25k	93.9%	6.1%	90.2%	9.8%
\$25k - \$49.9k	87.5%	12.5%	85.0%	15.0%
\$50k - \$99.9k	89.2%	10.8%	92.8%	7.2%
\$100k+	93.2%	6.8%	94.8%	5.2%
<b>Total</b>	90.8%	9.2%	90.7%	9.3%

## Questions 5 and 11

Do you believe that all children regardless of the type of school they attend should be required to have all the recommended vaccinations, unless they are medically unable to do so?

	No Children		Children	
	Yes	No	Yes	No
<b>Age</b>				
<35	85.2%	14.8%	86.2%	13.8%
35 - 64	89.9%	10.1%	80.0%	20.0%
65+	88.9%	11.1%	<b>94.8%</b>	<b>5.2%</b>
<b>Total</b>	88.7%	11.3%	82.8%	17.2%
<b>Education</b>				
HS or Less	91.7%	8.3%	81.9%	18.1%
Some College/Assoc	83.7%	16.3%	86.4%	13.6%
College+	90.5%	9.5%	80.8%	19.2%
<b>Total</b>	88.7%	11.3%	82.8%	17.2%
<b>Generation</b>				
Silent Generation	92.3%	7.7%	<b>96.6%</b>	<b>3.4%</b>
Baby Boomers	90.0%	10.0%	78.4%	21.6%
Generation X	85.7%	14.3%	79.8%	20.2%
Millennials	86.3%	13.7%	88.3%	11.7%
<b>Total</b>	88.7%	11.3%	82.8%	17.2%
<b>Income</b>				
<\$25k	92.2%	7.8%	84.5%	15.5%
\$25k - \$49.9k	85.5%	14.5%	74.8%	25.2%
\$50k - \$99.9k	87.5%	12.5%	86.6%	13.4%
\$100k+	89.8%	10.2%	82.6%	17.4%
<b>Total</b>	88.7%	11.3%	82.8%	17.2%

## Question 6

Have all your children received their doctor recommended vaccinations?

	Yes	No
<b>Age</b>		
<35	96.5%	3.5%
35 - 64	97.8%	2.2%
65+	100.0%	0.0%
<b>Total</b>	97.4%	2.6%
<b>Education</b>		
HS or Less	99.5%	0.5%
Some College/Assoc	97.8%	2.2%
College+	96.1%	3.9%
<b>Total</b>	97.4%	2.6%
<b>Generation</b>		
Silent Generation	100.0%	0.0%
Baby Boomers	98.8%	1.2%
Generation X	97.8%	2.2%
Millennials	96.3%	3.7%
<b>Total</b>	97.4%	2.6%
<b>Income</b>		
<\$25k	96.9%	3.1%
\$25k - \$49.9k	96.3%	3.7%
\$50k - \$99.9k	97.3%	2.7%
\$100k+	99.2%	0.8%
<b>Total</b>	97.4%	2.6%

## Question 7

What is the main reason your children have not received the doctor recommended vaccinations?

	Cost	Child Too Young	Didn't Know Needed	Cause Illness	Side Effects	Pre-servatives	Don't Trust MD	Religious	Other
<b>Age</b>									
<35	7.1%	0.0%	0.0%	14.7%	0.0%	0.0%	17.5%	55.6%	5.2%
35 - 64	0.0%	4.5%	6.7%	16.7%	19.8%	4.7%	0.0%	11.5%	36.0%
65+	100%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Total</b>	8.0%	2.0%	2.9%	14.9%	8.6%	2.1%	9.1%	34.1%	18.3%
<b>Education</b>									
HS or Less	100%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Some College/Assoc	13.2%	0.0%	0.0%	22.4%	10.7%	6.3%	0.0%	24.6%	22.8%
College+	0.0%	3.1%	4.5%	12.0%	8.1%	0.0%	14.3%	40.9%	17.1%
<b>Total</b>	8.0%	2.0%	2.9%	14.9%	8.6%	2.1%	9.1%	34.1%	18.3%
<b>Generation</b>									
Silent Generation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Baby Boomers	47.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.5%
Generation X	0.0%	5.1%	7.5%	18.7%	22.3%	5.3%	0.0%	12.9%	28.2%
Millennials	7.1%	0.0%	0.0%	14.7%	0.0%	0.0%	17.5%	55.6%	5.2%
<b>Total</b>	8.0%	2.0%	2.9%	14.9%	8.6%	2.1%	9.1%	34.1%	18.3%
<b>Income</b>									
<\$25k	0.0%	0.0%	0.0%	0.0%	0.0%	8.9%	0.0%	91.1%	0.0%
\$25k - \$49.9k	20.7%	5.1%	7.5%	19.9%	15.5%	0.0%	0.0%	0.0%	31.4%
\$50k - \$99.9k	0.0%	0.0%	0.0%	20.3%	7.3%	0.0%	25.6%	29.4%	17.3%
\$100k+	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
<b>Total</b>	8.0%	2.0%	2.9%	14.9%	8.6%	2.1%	9.1%	34.1%	18.3%

## Question 8

Will you get the doctor recommended vaccinations for your children sometime in the future?

Age	Yes	No
<35	73.7%	26.3%
35 - 64	51.8%	48.2%
65+	100.0%	0.0%
<b>Total</b>	63.1%	36.9%

Education	Yes	No
HS or Less	0.0%	100.0%
Some College/Assoc	62.2%	37.8%
College+	67.0%	33.0%
<b>Total</b>	63.1%	36.9%

Generation	Yes	No
Silent Generation	0.0%	0.0%
Baby Boomers	47.5%	52.5%
Generation X	58.1%	41.9%
Millennials	72.6%	27.4%
<b>Total</b>	63.1%	36.9%

Income	Yes	No
<\$25k	100.0%	0.0%
\$25k - \$49.9k	58.0%	42.0%
\$50k - \$99.9k	48.5%	51.5%
\$100k+	53.6%	46.4%
<b>Total</b>	63.1%	36.9%