

University of Iowa Hawkeye Poll – Topline Results
4/23/15
Poll of Johnson County, Iowa

Johnson County residents state that children should be vaccinated to attend school but residents vary in their beliefs about vaccine safety and how those opinions are formed.

SAMPLE: The survey consisted of 657 Johnson County, Iowa residents; the margin of error is +/- 3.9 percent. Among these respondents, 50.08 percent were Democrat, 13.36 percent Republican and 31.72 percent Independent. 39.91 percent considered themselves moderate, while 43.15 percent self-identified as liberal and 16.95 percent as conservative.

ABOUT: The Hawkeye Poll was conducted March 23-29, 2015 by the Hawkeye Poll. The poll was conducted by the Hawkeye Poll Cooperative, comprised of UI faculty, graduate, and undergraduate students in political science, with the cooperation and facilities of the Iowa Social Science Research Center, directed by UI Political Science Professor Frederick J. Boehmke. The faculty adviser for the poll is UI Professor of Political Science Frederick J. Boehmke. The poll is a teaching, research and service project of the UI Department of Political Science. The Department of Political Science, the College of Liberal Arts and Sciences, and the Office of the Provost fund the poll.

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RESPONDENT IDENTIFICATION: A random sample was acquired with 50% household landline numbers and 50% mobile phone numbers. For households, an initial attempt was made on answering the phone to reach the youngest male who is 18 years or older. Alternatively, a female age 18 or older was interviewed. All respondents who stated they were over age 18 and willing to participate in the survey were included.

WEIGHTING: Reported results are weighted by sex and age.

Text in grey indicates that there were few respondents in a given category. Inferences based on those figures should be made with caution.

Question Wording: When it comes to childhood diseases, like measles, mumps, and whooping cough, should all children be required to get vaccinations or should parents be able to decide whether or not to vaccinate their children?

| | |
|---------------------------------------------------|------|
| Children should be vaccinated | % |
| Parents should be able to decide to not vaccinate | 16.3 |
| All children should be vaccinated | 79.8 |
| Don't Know/Refused | 3.9 |

Age (in years)

| Children should be vaccinated | 18-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80 and over |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------------|
| | % | % | % | % | % | % | % |
| Parents should be able to decide to not vaccinate | 14.6 | 29.2 | 15.4 | 12.7 | 12.1 | 5.2 | 14.6 |
| All children should be vaccinated | 81.0 | 68.0 | 76.3 | 86.2 | 85.7 | 91.3 | 81.5 |
| Don't Know/Refused | 4.4 | 2.8 | 8.3 | 1.1 | 2.2 | 3.5 | 3.9 |

Party ID

| Children should be vaccinated | Democrat | Republican | Independent |
|---------------------------------------------------|----------|------------|-------------|
| | % | % | % |
| Parents should be able to decide to not vaccinate | 12.0 | 25.7 | 16.3 |
| All children should be vaccinated | 84.9 | 73.9 | 78.6 |
| Don't Know/Refused | 3.1 | 0.3 | 5.1 |

Religious Affiliation

| Children should be vaccinated | No Religion | Non-Evangelical, Religious | Evangelical |
|---------------------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Parents should be able to decide to not vaccinate | 9.8 | 17.6 | 29.4 |
| All children should be vaccinated | 82.9 | 80.7 | 70.3 |
| Don't Know/Refused | 7.4 | 1.8 | 0.3 |

Education level

| Children should be vaccinated | Less than High School | High School | Vocational School | Some College | Four Year Degree | Post College |
|---------------------------------------------------|-----------------------|-------------|-------------------|--------------|------------------|--------------|
| | % | % | % | % | % | % |
| Parents should be able to decide to not vaccinate | 37.8 | 13.4 | 10.6 | 24.9 | 13.3 | 9.5 |
| All children should be vaccinated | 40.6 | 80.8 | 75.0 | 71.9 | 84.5 | 87.9 |
| Don't Know/Refused | 21.5 | 5.8 | 14.4 | 3.2 | 2.2 | 2.6 |

Self-reported household income from 2014

| Children should be | Less than | \$10,000-under | \$20,000-under | \$30,000-under | \$40,000-under | \$50,000-under | \$75,000-under | \$100,000-under | \$150,000+ |
|--------------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------|
|--------------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------|

| vaccinated | \$10,000 | \$20,000 | \$30,000 | \$40,000 | \$50,000 | \$75,000 | \$100,000 | \$150,000 | |
|---------------------------------------------------|----------|----------|----------|----------|----------|----------|-----------|-----------|------|
| | % | % | % | % | % | % | % | % | % |
| Parents should be able to decide to not vaccinate | 30.8 | 25.7 | 14.6 | 25.6 | 7.9 | 10.2 | 23.8 | 20.1 | 4.8 |
| All children should be vaccinated | 69.2 | 54.9 | 84.9 | 73.6 | 91.4 | 86.9 | 74.9 | 76.1 | 87.0 |
| Don't Know/Refused | 0.0 | 19.4 | 0.5 | 0.8 | 0.7 | 3.0 | 1.3 | 3.7 | 8.2 |

Question Wording: Should children who have not been vaccinated from diseases like measles, mumps, and whooping cough be allowed or not allowed to attend public schools?

| | |
|-----------------------------------------------|------|
| Non-vaccinated children-attend public schools | % |
| Should not be allowed in schools | 58.4 |
| Should be allowed in schools | 35.9 |
| Don't Know/Refused | 5.7 |

Education level

| Non-vaccinated children-attend public schools | Less than High School | High School | Vocational | Some College | Four Year Degree | Post College |
|-----------------------------------------------|-----------------------|-------------|------------|--------------|------------------|--------------|
| | % | % | % | % | % | % |
| Should not be allowed in schools | 40.6 | 73.3 | 56.9 | 47.9 | 56.3 | 67.5 |
| Should be allowed in schools | 59.4 | 25.3 | 21.3 | 39.7 | 39.4 | 28.9 |
| Don't Know/Refused | 0.0 | 1.3 | 21.8 | 12.4 | 4.3 | 3.6 |

Religious affiliation

| Non-vaccinated children-attend public schools | No Religion | Non-Evangelical, Religious | Evangelical |
|-----------------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Should not be allowed in schools | 65.5 | 53.5 | 55.2 |
| Should be allowed in schools | 26.4 | 41.2 | 44.4 |
| Don't Know/Refused | 8.1 | 5.2 | 0.4 |

Question Wording: Do you think the following statement is definitely true, probably true, probably not true, true, or definitely not true. Early childhood vaccinations cause autism.

| | |
|---------------------------|-----|
| Vaccinations cause autism | % |
| Definitely true | 2.0 |

| | |
|---------------------|------|
| Probably true | 8.9 |
| Probably not true | 16.4 |
| Definitely not true | 72.6 |

Party ID

| Vaccinations cause autism | Democrat | Republican | Independent |
|---------------------------|----------|------------|-------------|
| | % | % | % |
| Definitely true | 0.1 | 2.8 | 3.3 |
| Probably true | 2.3 | 9.6 | 17.5 |
| Probably not true | 17.2 | 16.0 | 14.8 |
| Definitely not true | 80.4 | 71.6 | 64.3 |

Age (in years)

| Vaccinations cause autism | 18-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80 and over |
|---------------------------|-------|-------|-------|-------|-------|-------|-------------|
| | % | % | % | % | % | % | % |
| Definitely true | 3.0 | 3.0 | 1.5 | 0.0 | 1.2 | 1.0 | 0.0 |
| Probably true | 12.7 | 9.3 | 11.8 | 3.7 | 3.0 | 1.0 | 0.0 |
| Probably not true | 14.2 | 15.5 | 20.3 | 17.6 | 18.1 | 16.6 | 21.9 |
| Definitely not true | 70.2 | 72.2 | 66.4 | 78.7 | 77.7 | 81.3 | 78.1 |

Education level

| Vaccinations cause autism | Less than High School | High School | Vocational | Some College | Four Year Degree | Post College |
|---------------------------|-----------------------|-------------|------------|--------------|------------------|--------------|
| | % | % | % | % | % | % |
| Definitely true | 0.0 | 0.0 | 0.0 | 5.3 | 2.1 | 0.3 |
| Probably true | 22.1 | 10.2 | 0.0 | 10.3 | 9.4 | 3.2 |
| Probably not true | 23.1 | 20.2 | 34.5 | 16.5 | 15.8 | 12.3 |
| Definitely not true | 54.8 | 69.6 | 65.5 | 68.0 | 72.7 | 84.1 |

Religious affiliation

| Vaccinations cause autism | No Religion | Non-Evangelical, Religious | Evangelical |
|---------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Definitely true | 0.2 | 4.3 | 0.4 |
| Probably true | 4.4 | 11.3 | 14.9 |
| Probably not true | 18.0 | 15.3 | 13.9 |
| Definitely not true | 77.5 | 69.0 | 70.7 |

Household income from 2014-self reported estimate

| Vaccinations cause autism | Less than \$10,000 | \$10,000-under \$20,000 | \$20,000-under \$30,000 | \$30,000-under \$40,000 | \$40,000-under \$50,000 | \$50,000-under \$75,000 | \$75,000-under \$100,000 | \$100,000-under \$150,000 | \$150,000+ |
|---------------------------|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------|------------|
| | % | % | % | % | % | % | % | % | % |
| Definitely true | 0.0 | 0.0 | 12.2 | 0.8 | 0.0 | 0.5 | 0.0 | 0.0 | 2.4 |
| Probably true | 29.6 | 7.4 | 25.2 | 10.3 | 19.3 | 0.5 | 6.4 | 3.8 | 0.0 |
| Probably not true | 0.0 | 19.8 | 14.5 | 13.2 | 13.4 | 18.5 | 14.0 | 28.7 | 14.3 |
| Definitely not true | 70.4 | 72.8 | 48.1 | 75.7 | 67.2 | 80.5 | 79.6 | 67.6 | 83.3 |

Question Wording: How much do you trust the United States Department of Health and Human Services when they give advice about childhood vaccines, like the MMR?

| Trust U.S. DHHS advice about vaccines | % |
|---------------------------------------|------|
| Do not trust | 10.8 |
| Somewhat trust | 34.7 |
| Strongly trust | 52.4 |
| Don't Know/Refused | 2.1 |

Party ID

| Trust U.S. DHHS advice about vaccines | Democrat | Republican | Independent |
|---------------------------------------|----------|------------|-------------|
| | % | % | % |
| Do not trust | 1.2 | 22.3 | 24.2 |
| Somewhat trust | 38.2 | 34.8 | 29.7 |
| Strongly trust | 59.6 | 39.7 | 45.7 |
| Don't Know/Refused | 1.0 | 3.1 | 0.4 |

Religious affiliation

| Trust U.S. DHHS advice about vaccines | No Religion | Non-Evangelical, Religious | Evangelical |
|---------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Do no trust | 4.9 | 14.1 | 19.4 |
| Somewhat trust | 46.3 | 28.5 | 15.5 |
| Strongly trust | 48.5 | 52.6 | 64.4 |
| Don't Know/Refused | 0.3 | 4.7 | 0.7 |

Question Wording: How much do you trust the Iowa Department of Health and Human Services when they give advice about the childhood vaccines, like the MMR?

| Trust Iowa DHHS advice about vaccines | % |
|---------------------------------------|------|
| Do not trust | 1.1 |
| Somewhat trust | 39.0 |
| Strongly trust | 58.8 |
| Don't Know/Refused | 1.1 |

Party ID

| Trust Iowa DHHS advice about vaccines | Democrat | Republican | Independent |
|---------------------------------------|----------|------------|-------------|
| | % | % | % |
| Do no trust | 0.9 | 4.8 | 0.5 |
| Somewhat trust | 30.1 | 74.1 | 41.7 |
| Strongly trust | 68.0 | 20.4 | 57.3 |
| Don't Know/Refused | 1.0 | 0.7 | 0.5 |

Religious affiliation

| Trust Iowa DHHS advice about vaccines | No Religion | Non-Evangelical, Religious | Evangelical |
|---------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Do no trust | 0.3 | 2.0 | 0.0 |
| Somewhat trust | 25.0 | 47.8 | 39.2 |
| Strongly trust | 73.1 | 49.2 | 60.8 |
| Don't Know/Refused | 1.5 | 0.9 | 0.0 |

Question Wording: How important are each of the following in shaping your opinion about the safety of vaccinations? ... Recommendations are based on solid evidence.

| Vaccination research-based on solid evidence | % |
|----------------------------------------------|------|
| Not important at all | 1.2 |
| Not too important | 0.5 |
| Somewhat important | 4.6 |
| Important | 19.9 |
| Very important | 72.2 |
| Don't know/Refused | 1.6 |

Party ID

| Vaccination research-based on solid evidence | Democrat | Republican | Independent |
|----------------------------------------------|----------|------------|-------------|
| | % | % | % |
| Not important at all | 0.0 | 0.0 | 3.3 |
| Not too important | 0.4 | 2.6 | 0.1 |
| Somewhat important | 3.9 | 2.6 | 4.3 |
| Important | 17.3 | 26.2 | 21.9 |
| Very important | 78.1 | 63.2 | 69.7 |
| Don't know/Refused | 0.4 | 5.3 | 0.7 |

Religious affiliation

| Vaccination research-based on solid evidence | No Religion | Non-Evangelical, Religious | Evangelical |
|----------------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Not important at all | 0.1 | 0.1 | 7.5 |
| Not too important | 0.0 | 1.1 | 0.3 |
| Somewhat important | 1.3 | 4.9 | 8.9 |
| Important | 15.8 | 19.2 | 31.4 |
| Very important | 82.6 | 71.5 | 51.6 |
| Don't know/Refused | 0.3 | 3.2 | 0.2 |

Education level

| Vaccination research-based on solid evidence | Less than High School | High School | Vocational | Some College | Four Year Degree | Post College |
|----------------------------------------------|-----------------------|-------------|------------|--------------|------------------|--------------|
| | % | % | % | % | % | % |
| Not important at all | 0.0 | 0.0 | 0.0 | 4.8 | 0.1 | 0.2 |
| Not too important | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.1 |
| Somewhat important | 1.5 | 3.0 | 0.0 | 11.0 | 2.4 | 2.6 |
| Important | 35.9 | 23.4 | 37.0 | 22.5 | 18.7 | 12.2 |
| Very important | 48.9 | 72.9 | 63.0 | 60.1 | 76.8 | 83.3 |
| Don't know/Refused | 13.8 | 0.7 | 0.0 | 0.3 | 2.0 | 0.7 |

Self reported household income from 2014

| Vaccination research-based on solid evidence | Less than \$10,000 | \$10,000 - under \$20,000 | \$20,000 - under \$30,000 | \$30,000 - under \$40,000 | \$40,000 - under \$50,000 | \$50,000 - under \$75,000 | \$75,000 - under \$100,000 | \$100,000 - under \$150,000 | \$150,000+ |
|----------------------------------------------|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|-----------------------------|------------|
| | % | % | % | % | % | % | % | % | % |
| Not important at all | 0.0 | 0.0 | 11.9 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| Not too important | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.4 |
| Somewhat important | 1.7 | 3.7 | 3.4 | 13.4 | 7.6 | 10.8 | 1.8 | 4.0 | 0.0 |
| Important | 7.6 | 29.3 | 35.6 | 18.8 | 17.0 | 25.1 | 14.5 | 22.0 | 8.5 |
| Very important | 90.7 | 67.1 | 48.6 | 58.1 | 75.1 | 64.1 | 83.0 | 70.3 | 90.2 |
| Don't know/Refused | 0.0 | 0.0 | 0.5 | 9.0 | 0.4 | 0.0 | 0.7 | 1.1 | 0.5 |

Question Wording: How important are each of the following in shaping your opinion about the safety of vaccinations? ... The results of the research are consistent with common sense.

| | |
|-----------------------------------------------------------|---|
| Vaccination research-results consistent with common sense | % |
|-----------------------------------------------------------|---|

| | |
|----------------------|------|
| Not important at all | 15.4 |
| Not too important | 12.2 |
| Somewhat important | 19.7 |
| Important | 28.5 |
| Very important | 21.6 |
| Don't know/Refused | 2.6 |

Party ID

| Vaccination research-results consistent with common sense | Democrat | Republican | Independent |
|-----------------------------------------------------------|----------|------------|-------------|
| | % | % | % |
| Not important at all | 12.3 | 9.9 | 16.1 |
| Not too important | 12.2 | 14.2 | 12.8 |
| Somewhat important | 27.6 | 11.0 | 14.4 |
| Important | 24.5 | 39.8 | 32.3 |
| Very important | 20.0 | 24.3 | 23.3 |
| Don't know/Refused | 3.3 | 0.8 | 1.1 |

Religious affiliation

| Vaccination research-results consistent with common sense | No Religion | Non-Evangelical, Religious | Evangelical |
|-----------------------------------------------------------|-------------|----------------------------|-------------|
| | % | % | % |
| Not important at all | 20.2 | 11.7 | 16.9 |
| Not too important | 9.8 | 13.7 | 13.3 |
| Somewhat important | 23.8 | 19.2 | 10.5 |
| Important | 29.3 | 27.1 | 29.6 |
| Very important | 13.9 | 25.6 | 28.2 |
| Don't know/Refused | 3.0 | 2.6 | 1.6 |

Education level

| Vaccination research-results consistent with common sense | Less than High School | High School | Vocational | Some College | Four Year Degree | Post College |
|-----------------------------------------------------------|-----------------------|-------------|------------|--------------|------------------|--------------|
| | % | % | % | % | % | % |
| Not important at all | 0.0 | 4.1 | 0.0 | 18.0 | 10.5 | 34.3 |
| Not too important | 14.3 | 7.6 | 9.0 | 13.2 | 13.9 | 11.0 |
| Somewhat important | 14.3 | 23.2 | 18.1 | 19.1 | 18.4 | 21.2 |
| Important | 67.2 | 22.5 | 33.9 | 21.5 | 35.5 | 20.9 |

| | | | | | | |
|--------------------|-----|------|------|------|------|-----|
| Very important | 3.2 | 41.1 | 35.2 | 25.4 | 18.9 | 9.4 |
| Don't know/Refused | 1.0 | 1.6 | 3.7 | 2.8 | 2.8 | 3.2 |

Self reported household income from 2014

| Vaccination research- results consistent with common sense | Less than \$10,000 | \$10,000 - under \$20,000 | \$20,000 - under \$30,000 | \$30,000 - under \$40,000 | \$40,000 - under \$50,000 | \$50,000 - under \$75,000 | \$75,000 - under \$100,000 | \$100,000 - under \$150,000 | \$150,000+ |
|------------------------------------------------------------|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|-----------------------------|------------|
| | % | % | % | % | % | % | % | % | % |
| Not important at all | 1.2 | 9.7 | 20.8 | 11.6 | 2.0 | 10.3 | 15.4 | 19.1 | 28.0 |
| Not too important | 32.1 | 9.1 | 2.6 | 21.6 | 13.9 | 2.2 | 13.0 | 6.9 | 29.2 |
| Somewhat important | 3.4 | 31.4 | 25.8 | 35.8 | 4.6 | 23.2 | 19.0 | 25.9 | 16.6 |
| Important | 34.0 | 39.8 | 27.2 | 13.9 | 53.1 | 43.4 | 30.4 | 15.9 | 15.3 |
| Very important | 29.3 | 9.4 | 16.5 | 15.6 | 24.9 | 18.3 | 20.7 | 29.7 | 9.6 |
| Don't know/Refused | 0.0 | 0.5 | 7.2 | 1.5 | 1.5 | 2.6 | 1.5 | 2.5 | 1.3 |