

Supplemental Digital Content 1

The HPV Attitude and Beliefs Scale (HABS)

The following sections will present a series of statements about HPV and the HPV vaccine. We wish to know your opinion. Please note that we are not testing your knowledge. If you do not know an answer, that's alright, simply select the answer that most reflects your opinion.

	ITEMS	Strongly Disagree	Disagree	Somewhat Disagree	Neutral	Somewhat Agree	Agree	Strongly Agree
1	I feel that the HPV vaccine has many benefits	1	2	3	4	5	6	7
2	I feel that the HPV vaccine will protect my son's sexual health	1	2	3	4	5	6	7
3	I feel that the HPV vaccine works well	1	2	3	4	5	6	7
4	I feel that the HPV vaccine is effective in preventing HPV	1	2	3	4	5	6	7
5	I feel that the HPV vaccine is effective in preventing genital warts	1	2	3	4	5	6	7
6	I feel that vaccinating <i>my son</i> against HPV may be a good thing to do for his health <i>I feel that vaccinating son's name¹ against HPV was a good thing to do for his health*</i>	1	2	3	4	5	6	7
7	I feel that vaccinating <i>my son</i> against HPV would give me peace of mind about his sexual health <i>I feel that having vaccinated my son against HPV gives me peace of mind about his sexual health*</i>	1	2	3	4	5	6	7
8	I feel that the HPV vaccine is effective in preventing HPV-related cancers	1	2	3	4	5	6	7
9	I feel that vaccinating <i>my son</i> against HPV would protect his current/future partner from getting infected with HPV <i>I feel that having vaccinated son's name against HPV protects his current/future partner from getting infected*</i>	1	2	3	4	5	6	7
10	I feel that getting <i>my son</i> the HPV vaccine would protect his current/future partner against cancer <i>I feel that having gotten son's name the HPV vaccine protects his current/future partner against cancer*</i>	1	2	3	4	5	6	7
11	I feel that it would be serious if <i>my son</i> contracted HPV later in life	1	2	3	4	5	6	7
12	I feel that it would be serious if <i>my son</i> contracted genital warts later in life	1	2	3	4	5	6	7
13	I feel that it would be serious if <i>my son</i> contracted an HPV-related cancer later in life	1	2	3	4	5	6	7

	ITEMS	Strongly Disagree	Disagree	Somewhat Disagree	Neutral	Somewhat Agree	Agree	Strongly Agree
14	I feel that other parents in my community are getting their sons the HPV vaccine	1	2	3	4	5	6	7
15	I feel that my friends are getting their sons vaccinated with the HPV vaccine	1	2	3	4	5	6	7
16	I feel that other boys around <i>my son's</i> age are getting vaccinated for HPV	1	2	3	4	5	6	7
17	I feel that it is expected of me that I should vaccinate <i>my son</i> against HPV <i>I feel that it was expected of me that I should vaccinate my son against HPV*</i>	1	2	3	4	5	6	7
18	I feel that most of my friends think vaccinating <i>my son</i> against HPV is a good idea <i>I feel that most of my friends think vaccinating my son against HPV was a good idea*</i>	1	2	3	4	5	6	7
19	I feel that doctors/health care providers believe vaccinating boys against HPV is a good idea	1	2	3	4	5	6	7
20	I feel that my son's other parent believes we should get the HPV vaccine for <i>my son</i> <i>I feel that my son's other parent believes in having gotten the HPV vaccine for my son*</i>	1	2	3	4	5	6	7
21	I feel that my family thinks it is a good idea to vaccinate <i>my son</i> against HPV. <i>I feel that my family thinks it was a good idea to vaccinate my son against HPV*</i>	1	2	3	4	5	6	7
22	I feel that the HPV vaccine is unsafe	1	2	3	4	5	6	7
23	I feel that giving <i>my son</i> the HPV vaccine would be like performing an experiment on him <i>I feel that giving my son the HPV vaccine was like performing an experiment on him*</i>	1	2	3	4	5	6	7
24	I feel that the HPV vaccine may lead to long-term health problems	1	2	3	4	5	6	7
25	I feel that the HPV vaccine is being pushed to make money for pharmaceutical companies	1	2	3	4	5	6	7
26	I feel that the HPV vaccine is too new	1	2	3	4	5	6	7
27	I feel that there has not been enough research done on the HPV vaccine							

	ITEMS	Strongly Disagree	Disagree	Somewhat Disagree	Neutral	Somewhat Agree	Agree	Strongly Agree
28	I feel that without the HPV vaccine, <i>my son</i> would be at risk of getting HPV later in life	1	2	3	4	5	6	7
29	I feel that without the HPV vaccine, <i>my son</i> would be at risk of getting genital warts later in life	1	2	3	4	5	6	7
30	I feel that without the HPV vaccine, <i>my son</i> would be at risk of getting an HPV-related cancer later in life	1	2	3	4	5	6	7
31	I feel that the HPV vaccine is too expensive <i>I feel that the HPV vaccine was too expensive*</i>	1	2	3	4	5	6	7
32	I feel that my/our insurance does not cover enough of the cost of the HPV vaccine for <i>my son</i> <i>I feel that my/our insurance did not cover enough of the cost of the HPV vaccine for my son*</i>	1	2	3	4	5	6	7
33	I feel that the HPV vaccine costs more than I can afford <i>I feel that the HPV vaccine cost more than I could afford*</i>	1	2	3	4	5	6	7
34	I feel that it is hard to talk to <i>son's name</i> about his sexual health	1	2	3	4	5	6	7
35	I feel that I am uncomfortable discussing <i>my son</i> sexual health with a doctor/health care provider	1	2	3	4	5	6	7
36	I feel that sex is not a subject I talk about with <i>my son</i>	1	2	3	4	5	6	7
37	I feel that I am uncomfortable talking to <i>my son</i> about the HPV vaccine	1	2	3	4	5	6	7
38	I feel that I do not know how to approach the topic of the HPV vaccine with <i>my son</i>	1	2	3	4	5	6	7
39	I feel that it is hard to find a clinic that would be easy to access for getting the HPV vaccine for <i>my son</i> ⁺ <i>I feel that it was hard to find a clinic that was easy to access for getting the HPV vaccine for my son</i> * ⁺	1	2	3	4	5	6	7

	ITEMS	Strongly Disagree	Disagree	Somewhat Disagree	Neutral	Somewhat Agree	Agree	Strongly Agree
40	I feel that it is hard to find a provider or clinic where I would not have to wait a long time to get an appointment for <i>my son</i> to get vaccinated ⁺ <i>I feel that it was hard to find a provider or clinic where I didn't have to wait a long time to get an appointment for my son to get vaccinated*⁺</i>	1	2	3	4	5	6	7
41	I feel that dealing with getting the HPV vaccine for <i>son's name</i> would be simple <i>I feel that dealing with getting the HPV vaccine for my son was simple*</i>	1	2	3	4	5	6	7
42	I feel that the process of actually getting the HPV vaccine for <i>son's name</i> would be easy <i>I feel that the process of actually getting the HPV vaccine for my son was easy*</i>	1	2	3	4	5	6	7
43	I feel that vaccines are a good way to protect public health	1	2	3	4	5	6	7
44	I feel that vaccinating children is a good idea	1	2	3	4	5	6	7
45	I do not like the idea of vaccines ⁺	1	2	3	4	5	6	7
46	I feel that doctors give out too many vaccines ⁺	1	2	3	4	5	6	7

Note: ¹Participants were asked at the beginning of the questionnaire to provide a name, nickname, initials or abbreviations for their son who is between the ages of 9 and 16 and who has had the most recent birthday. Parents' sons' initials, name, nickname (e.g., JT, Dan) was then replaced and "*my son*" in all items listed above where my son is italicized, making the questionnaire individualized for each participant. E.g., I feel that vaccinating JT against HPV may be a good thing to do for his health. Participants were informed that the name provided for their son would not be used in any other way by the researchers.

*Items for respondents were phrased in the past tense (by an intelligent program) for parents who indicated they had vaccinated their son.

⁺ Items were reverse-coded

²Items 1-10 correspond to "Benefits" with a maximum scale score of 70. Items 11-13 correspond to "Threat" with a maximum scale score of 21. Items 14-21 correspond to "Influence" with a maximum scale score of 56. Items 22-27 correspond to "Harms" with a maximum score of 42. Items 28-30 correspond to "Risk" with a maximum subscale score of 21. Items 31-33 correspond to "Affordability" with a maximum score of 21. Items 34-38 correspond to "Communication" with a maximum score of 35. Items 39-42 correspond to "Accessibility" with a maximum score of 28. Items 43-46 correspond to "General Vaccination Attitudes" with a maximum score of 28.

Scale is available in French by contacting the corresponding author.