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Participants characteristics

Demographic information

		Frequencies	Frequencies %
Who is answering the questionnaire?	Mothers	1767	90.2
	Fathers	192	9.8
Age of mothers	Less than 35 years	98	5.5
	Between 35 and 44 years	1102	62.4
	More than 45 years	567	32.1
Age of fathers	Less than 35 years	14	7.3
	Between 35 and 44 years	86	44.8
	More than 45 years	92	47.9
Mothers' occupation	Farmers/small business owners	85	4.8
	Executives and professionals	353	20
	Technicians/service workers	986	55.8
	Factory workers	53	3
	Inactive (others)	290	16.4
Fathers' occupation	Farmers/small business owners	7	3.7
	Executives and professionals	73	38
	Technicians/service workers	63	32.8
	Factory workers	23	12
	Inactive (others)	26	13.5
Mother's language	Multilingual	161	9.1
	French monolingual	1606	91
Father's language	Multilingual	33	17.2
	French monolingual	159	82.8
Mother's living environment	Urban	1133	65.3
	Peri-urban	202	11.6
	Rural	400	23.1
	NR		
Father's living environment	Urban	136	73.1
	Peri-urban	16	8.6
	Rural	34	18.3
	NR		
Mother's school area deprivation	Low	210	12.1
	Moderate low	619	35.7
	Moderate high	653	37.6
	High	235	14.6
	Low	31	16.7
	Moderate low	75	40.3

Father's school area deprivation	Moderate high	59	31.7
	High	21	11.3

1959 participants were included in this study. The majority of participants were mothers, accounting for 90.2% of the group, while fathers represented only 9.8%. Among the mothers, 62.5% were between 35 and 44 years old, and 47.9% of the fathers were over 45 years old.

53,5% of participants were technicians/ service workers, 21,8% were executives and professionals, 16,1% were inactive, 4.7% were farmers/ small business owners and 3,9% were factory workers.

Additionally, 90,1% of participants were french monolingual and 9,9% were multilingual. In terms of participants' backgrounds, 64.7% came from urban areas, 22.2% came from rural areas.

Furthermore, 12.3% came from a low school deprivation area, while 14% came from a high school deprivation area.

Age and gender of the son/daughter

Child sex		
Girl	1 043	53,2
Boy	916	46,8
	1 959	100
Child age based on school grade		
10-11 years	456	23,3
11-12 years	442	22,6
12-13 years	598	30,5
13-14 years	463	23,6
	1959	100

Among the 1959 participants, 53.2% were parents of girls and 46.8% were parents of boys. There was more child aged 12-13 years (30,5) than 13-14 years (23,6%), 10-11 years (23,3%) and 11-12 years (22,6%).

Knowledge on HPV infection and vaccination

Knowledge on HPV vaccine recommendation by gender

Knowledge on HPV vaccine recommendation by gender		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	82	4	14
	Fathers	71	13	17
Child sex:	girl	79	4	17
	boy	84	5	11
Language	French	81	5	14
	Multilingual	81	5	14
Age Parent	Less than 35 years	66	11	23
	Between 35 years and 44 years	83	4	13
	More than 45 years	79	5	16
School area deprivation	Low	88	2	10
	Low- Medium	82	4	14
	Medium High	81	4	14
	High	75	8	17
Occupation	Farmers/ small business owners	84	3	14
	Executives and professionals	87	3	11
	Technicians/service workers	82	4	14
	Factory workers	62	14	24
	Inactive/ (others)	72	10	18
RP offer	Visited and offered	89	2	9
	Visited and not offered	73	8	19
	No visit	69	8	23

78% of parents have correct knowledges on HPV vaccine recommendation by gender, 6% were undecided and 15,5% were incorrect.

Fathers, parents less than 66 years, factory workers, inactive parents and parents who didn't get an offer or visit appears to have more doubts or incorrect answers.

Knowledge on age range of vaccination

Knowledge on age range of vaccination		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	88	5	7
	Fathers	81	15	5
Child sex:	girl	92	3	4
	boy	82	9	9
Language	French	88	5	6
	Multilingual	82	9	9
Age Parent	Less than 35 years	86	9	5
	Between 35 years and 44 years	90	4	6
	More than 45 years	84	7	9
School area deprivation	Low	95	3	3
	Low- Medium	85	6	8
	Medium High	90	5	4
	High	81	7	12
Occupation	Farmers/ small business owners	80	7	14
	Executives and professionals	93	3	4
	Technicians/service workers	88	6	7
	Factory workers	83	11	6
	Inactive/ (others)	83	8	9
RP offer	Visited and offered	96	1	3
	Visited and not offered	77	12	11
	No visit	80	10	10

86% of parents have correct knowledges on knowledge on age range of vaccination, 7% were undecided and 7% were incorrect.

Fathers, parents of boys, multilingual parents, parents who are more than 45 years, high school deprivation area parents, farmers, factory workers, inactive parents and those who didn't get an offer or visit appears to have more doubts or incorrect answers than the average.

Knowledge on vaccination coverage worldwide

Vaccination coverage worldwide		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	18	60	22
	Fathers	7	69	23
Child sex:	girl	17	58	24
	boy	16	64	20
Language	French	16	62	22
	Multilingual	24	49	27
Age Parent	Less than 35 years	29	53	19
	Between 35 years and 44 years	17	59	24
	More than 45 years	14	66	20
School area deprivation	Low	13	63	23
	Low- Medium	17	58	25
	Medium High	17	62	21
	High	19	62	20
Occupation	Farmers/ small business owners	12	74	14
	Executives and professionals	16	55	29
	Technicians/service workers	17	61	22
	Factory workers	14	67	19
	Inactive/ (others)	18	64	19
RP offer	Visited and offered	17	57	26
	Visited and not offered	18	64	18
	No visit	14	69	17

Only 17% of parents have correct knowledges on vaccination coverage worldwide while 62% were undecided and 22% were incorrect.

Fathers, parents of boys, French parents, parents who are more than 45 years, low school deprivation area parents, farmers, executives and professionals, factory workers, parents who didn't get a visit appears to have more doubts or incorrect answers than the average.

Diseases caused by HPV

Diseases caused by HPV		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	96	3	1
	Fathers	86	13	1
Child sex:	girl	96	3	1
	boy	94	5	1
Language	French	95	4	1
	Multilingual	91	9	1
Age Parent	Less than 35 years	93	7	0
	Between 35 years and 44 years	95	4	1
	More than 45 years	94	4	2
School area deprivation	Low	96	1	3
	Low- Medium	95	1	4
	Medium High	96	1	4
	High	92	2	6
Occupation	Farmers/ small business owners	96	3	1
	Executives and professionals	96	3	1
	Technicians/service workers	96	4	1
	Factory workers	92	8	0
	Inactive/ (others)	91	8	1
RP offer	Visited and offered	97	2	1
	Visited and not offered	93	6	1
	No visit	93	7	0

94% of parents have correct knowledges on diseases caused by HPV, 5% were undecided and 2% were incorrect.

Fathers, multilingual parents, parents who are less than 35 years, high school deprivation area parents, factory workers, inactive parents and parents who didn't get a visit or an offer; appears to have more doubts or incorrect answers than the average.

Knowledge on vaccination and better immune response before 14 years

Vaccination and better immune response before 14 years		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	59	37	4
	Fathers	65	34	1
Child sex:	girl	62	34	4
	boy	57	40	3
Language	French	59	37	4
	Multilingual	60	35	4
Age Parent	Less than 35 years	47	51	2
	Between 35 years and 44 years	62	34	4
	More than 45 years	57	39	4
School area deprivation	Low	66	30	5
	Low- Medium	58	38	4
	Medium High	60	36	3
	High	55	40	5
Occupation	Farmers/ small business owners	55	43	1
	Executives and professionals	69	28	4
	Technicians/service workers	59	37	4
	Factory workers	52	48	0
	Inactive/ (others)	51	47	3
RP offer	Visited and offered	69	27	4
	Visited and not offered	47	49	4
	No visit	48	48	4

58% of parents have correct knowledges on vaccination and better immune response before 14 years, 39% were undecided and 3% were incorrect.

Parents of boys, parents who are less than 35 years and more than 45 years, high school deprivation area parents, farmers and parents who didn't get a visit or an offer; appears to have more doubts or incorrect answers than the average.

Time HPV vaccine has been monitored world wide

Time HPV vaccine has been monitored world wide		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	38	42	19
	Fathers	26	58	16
Child sex:	girl	40	42	18
	boy	35	45	20
Language	French	37	44	18
	Multilingual	39	37	25
Age Parent	Less than 35 years	38	37	24
	Between 35 years and 44 years	38	43	19
	More than 45 years	36	46	17
School area deprivation	Low	38	43	19
	Low- Medium	37	44	19
	Medium High	37	45	18
	High	36	43	21
Occupation	Farmers/ small business owners	38	46	16
	Executives and professionals	46	37	17
	Technicians/service workers	37	44	19
	Factory workers	30	59	11
	Inactive/ (others)	28	49	24
RP offer	Visited and offered	40	39	21
	Visited and not offered	34	49	17
	No visit	33	50	17

Only 36% of parents have correct knowledges on the time HPV vaccine has been monitored worldwide, while 45% were undecided and 19% were incorrect.

Multilingual parents, parents who are less than 45 years, parents from high school deprivation area and parents who received a RP offer have more incorrect answers than others.

Knowledge on young people vaccinated against HPV and elimination of cancer

Young people vaccinated against HPV and elimination of cancer		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	39	47	14
	Fathers	36	51	13
Child sex:	girl	39	47	15
	boy	39	48	13
Language	French	39	48	14
	Multilingual	40	43	17
Age Parent	Less than 35 years	24	56	20
	Between 35 years and 44 years	39	46	15
	More than 45 years	41	47	12
School area deprivation	Low	44	44	12
	Low- Medium	44	43	13
	Medium High	35	52	13
	High	29	51	20
Occupation	Farmers/ small business owners	32	49	19
	Executives and professionals	53	35	13
	Technicians/service workers	39	48	13
	Factory workers	11	70	19
	Inactive/ (others)	26	57	17
RP offer	Visited and offered	45	42	13
	Visited and not offered	32	53	15
	No visit	28	55	17

Only 36% of parents have correct knowledges on young people vaccinated against HPV and elimination of cancer, while 49% were undecided and 15% were incorrect.

Executives and professionals have the best rate of correct answer (53%), while factory workers have only 11% of correct answers with 70% of undecided answers.

Knowledge on HPV vaccine has more benefits than risks for both genders

Young people vaccinated against HPV and elimination of cancer		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	60	36	4
	Fathers	59	36	5
Child sex:	girl	63	33	4
	boy	56	40	4
Language	French	60	36	36
	Multilingual	61	35	35
Age Parent	Less than 35 years	52	43	5
	Between 35 years and 44 years	60	36	4
	More than 45 years	60	36	4
School area deprivation	Low	72	27	2
	Low- Medium	60	35	5
	Medium High	59	38	3
	High	53	41	6
Occupation	Farmers/ small business owners	51	43	5
	Executives and professionals	75	22	3
	Technicians/service workers	61	36	4
	Factory workers	33	62	5
	Inactive/ (others)	43	51	6
RP offer	Visited and offered	70	26	3
	Visited and not offered	46	49	5
	No visit	51	45	5

57% of parents have correct knowledges regarding that HPV vaccine has more benefits than risks for both genders, 38% were undecided and 7% were incorrect.

Executives and professionals have the best rate of correct answer (75%), while factory workers have only 33% of correct answers with 62% of undecided answers and 5% of incorrect answers.

Child can be vaccinated for free

Child can be vaccinated for free		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	78	20	2
	Fathers	75	23	3
Child sex:	girl	80	17	2
	boy	74	24	2
Language	French	78	20	2
	Multilingual	74	24	2
Age Parent	Less than 35 years	68	27	4
	Between 35 years and 44 years	81	18	1
	More than 45 years	74	23	4
School area deprivation	Low	79	19	2
	Low- Medium	76	22	3
	Medium High	77	21	2
	High	83	15	2
Occupation	Farmers/ small business owners	80	20	0
	Executives and professionals	84	15	1
	Technicians/service workers	78	20	2
	Factory workers	67	33	0
	Inactive/ (others)	71	24	5
RP offer	Visited and offered	85	13	3
	Visited and not offered	69	30	1
	No visit	68	29	3

76% of parents knew that child can be vaccinated for free, 22% were undecided and only 2% were incorrect.

Parents who visited a RP and have received an offered (85%), executives and professionals have the best rate of correct answer (84%).

Sexually active people can be infected with HPV

Sexually active people can be infected with HPV		Correct answer %	Unsure %	Incorrect answer %
Parents	Mothers	39	42	19
	Fathers	28	56	16
Child sex:	girl	37	43	19
	boy	38	44	17
Language	French	38	44	19
	Multilingual	41	42	18
Age Parent	Less than 35 years	26	56	18
	Between 35 years and 44 years	38	43	19
	More than 45 years	38.81	43.28	17.91
School area deprivation	Low	42	45	12
	Low- Medium	40	40	19
	Medium High	36	45.38	18.62
	High	32.5	45.42	22.08
Occupation	Farmers/ small business owners	34	43	23
	Executives and professionals	44	42	14
	Technicians/service workers	37.56	42.77	19.71
	Factory workers	28.57	49.21	22.22
	Inactive/ (others)	32.7	48.29	19.01
RP offer	Visited and offered	41	43	17
	Visited and not offered	35	45	20
	No visit	32	44	24

Only 37 % of parents knew that sexually active people can be infected with HPV, while 45% were undecided and 18% were incorrect.

Vaccination Status of son/daughter

Figure 2. HPV-vaccine related outcomes among included parents of adolescents in France, 2021-2022

Awareness					
	Heard about HPV vaccine	Yes	1 733	88,4	
		Not sure	48	2,4	
		No	178	9,2	
		TOTAL	1 959	100	Missing N=0
Vaccination status					
	Vaccinated against HPV	Yes	664	37,7	
		Not sure	14	0,8	
		No	1 082	61,5	
		TOTAL	1 760	100	Missing N=21
Intention to vaccinate child					
	Intention to vaccinate child	Yes	599	55,4	
		Not sure	346	32	
		No	136	12,6	
		TOTAL	1 081	100	Missing N=15

Among 1959 participants, 88,4% had heard about HPV vaccine.

Among 1760 participants, 37,7 % were vaccinated against HPV and 61.5% were not.

Among 1081 participants, 55,4% had the intention to vaccinate their child. 12,6% didn't had the intention and 32% were not sure.

Reasons for not getting HPV vaccination / Refusal Indecision Intention attitudes

Personal Aptitudes

			Refusal n= 136		Indecision n= 346		Intention n= 599	
	N(%)		n(%)		n(%)		n(%)	
Personal Aptitudes								
Trust in School system								
Agree	665	61,5	81	12,2	199	29,9	385	57,9
Undecided	229	21,2	35	15,3	80	34,9	114	49,8
Disagree	187	17,3	20	10,7	67	35,8	100	53,5
Easy finding information								
Agree	538	49,8	56	10,4	129	24,0	353	65,61
Unsure	362	33,5	59	16,3	151	41,7	152	42,0
Disagree	181	16,7	21	11,6	66	36,5	94	51,9

Parents who trust in school system have more intention to get their child vaccinated than those who don't trust. However, whether they have trust or not, the majority of parents intend to vaccinate their child.

Parents who find it difficult to access information are less likely with the intention of getting their child vaccinated than those who find it easy.

General Attitudes

General Attitudes			Refusal		Indecision		Intention	
Vaccination in general								
Unfavorable	43	4	9	20,9	20	46,5	14	32,6
Unsure	96	8,9	18	18,8	56	58,3	22	22,9
Favorable	942	87,1	109	11,6	270	28,6	563	59,8
Vaccine opposition								
Yes	14	1,3	1	7,1	4	28,6	9	64,3
To some	403	37,4	65	16,1	193	47,9	145	36,0
No	661	61,3	70	10,6	149	22,5	442	66,87
NR	3							

Family/ friends vaccination point of view								
Unfavorable	25	20,0	5	3,7	9	36,0	11	44,0
Unsure	234	21,7	45	19,2	99	42,3	90	38,5
Favorable	822	76,0	86	10,4	238	28,9	498	60,5
Vaccination protects the population								
Disagree	32	3,0	8	25,0	14	43,8	10	31,2
Undecided	85	7,9	19	22,4	42	49,4	24	28,2
Agree	964	89,1	109	11,3	290	30,1	565	58,6
Confidence in the information provided by the health professionals								
Disagree	140	13,0	23	16,4	75	53,6	42	30,0
Undecided	275	25,4	44	16,0	121	44,0	110	40,0
Agree	666	61,6	69	10,4	150	22,5	447	67,1
More benefits than risks of getting vaccinated								
Disagree	45	4,1	7	15,5	26	57,8	12	26,7
Undecided	190	17,6	32	16,9	92	48,4	66	34,7
Agree	846	78,3	97	11,5	228	26,9	521	61,6
Vaccination protection of the most vulnerable people								
Disagree	36	3,3	9	25,0	18	50,0	9	25,0
Undecided	90	8,3	18	20,0	39	43,3	33	36,7
Agree	955	88,4	109	11,4	289	30,3	557	58,3
Vaccination may interfere with the development of the body's natural immunity								
Disagree	399	36,9	36	9,0	89	22,3	274	68,7
Undecided	342	31,6	50	14,6	93	27,2	199	58,2
Agree	340	31,5	50	14,7	164	48,2	126	37,1

In general, parents have more likely the intention to vaccinate their children or be undecided about it. They are very few who refuse to vaccinate their children.

The majority of parents who have a favorable attitude (59.8%) regarding vaccination in general, have the intention to vaccinate their child, while the majority of unfavorable parents are undecided (46.5%).

Among the 1.3% of parents who are opposed to vaccination, 64.3% have the intention to get their child vaccinated while only 7.1% refuse it.

Among parents that haven't vaccinated their child, 20% have an unfavorable family/ friends point of view; 21.7% have an unsure attitude and 76% have a favorable family/ friends

attitude regarding vaccination. However, the majority of parents who have an unfavorable entourage, have the intention (44%) to get their child vaccinated.

89.1% of parents who haven't vaccinated their child, agree that vaccination protects the population, while 25.4% are undecided and 3% disagree. The latter are 43,8% undecided regarding their child HPV vaccination.

61.6% have confidence in the information provided by health professionals, 25.4% are undecided about it and 13% didn't trust the information. Among those who didn't trust, they tend to be more undecided regarding their child HPV vaccination (53.6%), while 30% have the intention and 16.4% have a refusal attitude.

78.3% of parents who haven't vaccinated their child agree there are more benefits than risks of getting vaccinated, 17.6% are undecided and only 4.1% disagree. The majority of parents who disagree, are undecided towards the HPV vaccination for their children. Parents who agree on this point, have 61.6% the intention to get their child vaccinated.

3.3% disagree that vaccination protects the most vulnerable people; they are 50% undecided and there is the same percentage (25%) of parents who refused and intend to vaccinate their child.

External Influences

			Refusal n= 136		Indecision n= 346		Intention n= 599	
	N(%)		n(%)		n(%)		n(%)	
External Influences								
Physician visit in last 12 months								
No visit	143	13,2	18	12,6	48	33,6	77	53,8
Don't Remember	27	2,5	6	22,2	4	14,8	17	63
Visited	911	84,3	112	12,3	294	32,3	505	55,4
HPV discussion with physician								
Yes	506	46,8	27	5,3	122	24,1	357	70,1
No	556	51,4	107	19,2	217	39	232	41,7
Unsure	19	1,8	2	10,5	7	36,9	10	52,6
HPV vaccine offer by physician								
Yes	420	38,8	17	4,1	90	21,4	313	74,5
No	644	59,6	116	18	250	38,8	278	43,2
Unsure	17	1,6	3	17,7	6	35,2	8	47,1

Attitude on HPV vaccination in social environment								
Unfavorable	59	5,5	21	35,6	25	42,4	13	22
Unsure	397	36,7	60	15,1	208	52,4	129	32,5
Favorable	625	57,8	55	8,8	113	18,1	457	73,1
Vaccination status of family and friends								
Not vaccinated	255	23,6	44	17,3	122	47,8	89	34,9
DNK	278	25,7	44	15,8	90	32,4	144	51,8
Vaccinated	548	50,7	48	8,8	134	24,4	366	66,8

84.3% of parents who haven't vaccinated their child, have visited a physicians in last 12 months; 13.2% haven't visited a physician and 2.5% didn't remembered.

55.4% of parents who have visited a physician in last 12 months, have the intention to get their child vaccinated, while 53,8% who have not visited a physician have the intention.

Among parents who haven't vaccinated their child 46.8% had an HPV discussion with physician while 51.4% had not and 1.8% were not sure. **We observe 70.1% of intention among those who had the discussion and 41.7% among those who had not.**

Only 5.3% of parents who had the discussion refused to get their child vaccinated while 19.2% of parents who had not the discussion refused and 10.15% among those unsure.

Having a discussion about HPV vaccine with a physician increase parents being undecided about the vaccine compared to refusing it (OR= 2,23) ; it also significantly increase parents with the intention to vaccinate their child compared to refusing it.

It appears that there are more parents who have not received an offer by a physician (59.6%) than those who have received an offer (38.8%). 1.6% of parents were unsure.

74.5% of parents who had received an HPV vaccine offer by a physician have the intention to get vaccinated their child, while only 4.1% refused.

18% of parents who hadn't received an offer refused, and 38,8% are undecided.

Parents who did not receive an offer from a physician are more likely to be undecided about the vaccine compared to those who received an offer. OR=0,41, they are also likely to have the intention to vaccinate their child compared to those who received an offer.

The majority of parents who have a favorable attitude on HPV vaccination in social environment (73.1%) have the intention to get their child vaccinated. Those who are unfavorable are more undecided (42,4%) and in a refusal attitude (35,6%).

Parents with a favorable attitude on HPV vaccination in social environment are more likely undecided (OR= 1,73) regarding vaccination of their child compared to those with an unfavorable attitude and

Having a favorable attitude on HPV vaccination in social environment is associated with a higher likelihood of being undecided (OR= 1,73) rather than refusing to vaccinate. It is strongly associated with a likelihood of intending to vaccinate rather than refusing to vaccinate (OR= 13,42).

It appears that, there are more parents who have the intention to get vaccinated their child among those who have vaccinated family and friends (66,8%) than those have not vaccinated

family and friends (34,9%). Parents who have a negative vaccination status of family and friends are more likely to be undecided (47,8%) and to refuse it (17,3%).

HPV vaccine safety

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	75%	20%	5%
Boys	67%	27%	6%
Mother	71%	24%	5%
Father	75%	19%	6%
French monolingual	72%	22%	5%
Multilingual	64%	32%	4%
Less than 35 years	65%	27%	8%
Between 35 and 44 years	71%	23%	5%
More than 45 years	73%	23%	5%
Low school deprivation area	84%	12%	5%
Low-Medium school deprivation area	69%	26%	5%
Medium-high school deprivation area	73%	22%	5%
High school deprivation area	64%	29%	7%
Farmers/ small bussiness owners	71%	25%	4%
Executives and professionals	81%	14%	5%
Technicians/service workers	71%	23%	6%
Factory workers	59%	40%	2%
Inactive/ (others)	61%	33%	6%

Regardless of the socio economic factors, HPV vaccine safety, perceived a good favorable attitude (mean = 70%) with a very low percentage of unfavorable attitude (mean = 5%) and an average of 25% of undecided attitude.

Parents of girls, mothers, multilingual parents, parents aged less than 35 years, those in a high school deprivation area and factory workers are those by category with least favorable attitude.

Difficulty to get child vaccinated

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	81%	14%	5%
Boys	67%	26%	7%
Mother	75%	19%	6%
Father	73%	21%	5%
French monolingual	75%	19%	5%
Multilingual	69%	23%	8%
Less than 35 years	64%	26%	10%
Between 35 and 44 years	76%	19%	4%
More than 45 years	74%	19%	7%
Low school deprivation area	84%	11%	5%
Low-Medium school deprivation area	72%	21%	7%
Medium-high school deprivation area	78%	18%	4%
High school deprivation area	65%	27%	8%
Farmers/ small bussiness owners	73%	23%	4%
Executives and professionals	84%	12%	4%
Technicians/service workers	74%	20%	5%
Factory workers	59%	33%	8%
Inactive/ (others)	66%	24%	10%

In general, parents have a favorable attitude regarding the difficulty to get vaccinated with an average of 73% of favorable attitude, 21% of undecided attitude, and 6% of unfavorable.

Parents of boys appears to be more undecided (26%) than parents of girls, parents aged less than 35 years (26%) more than the others, those in a high school deprivation area (27%) than other other areas, factory workers than other parents occupation (33%)

Getting child vaccinated against HPV

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	84%	13%	3%
Boys	74%	23%	3%
Mother	79%	17%	3%
Father	82%	15%	3%
French monolingual	80%	17%	3%
Multilingual	74%	22%	4%
Less than 35 years	75%	21%	3%
Between 35 and 44 years	80%	17%	3%
More than 45 years	79%	17%	4%
Low	89%	8%	3%
Low-Medium	77%	21%	3%
Medium-high	83%	14%	2%
High	71%	23%	6%
Farmers/ small bussiness owners	84%	14%	3%
Executives and professionals	86%	12%	1%
Technicians/service workers	79%	18%	3%
Factory workers	65%	29%	6%
Inactive/ (others)	73%	21%	6%

An average of 79 % have a favourable attitude regarding getting child vaccinated against HPV; 18% were undecided and only 3% unfavorable.

Factory workers are the ones with less favorable attitude (65%) and with more undecided attitude, and unfavorable attitude (6%) .

Parents of boys, mothers, multilingual parents, parents aged less than 35 years, high school deprivation area and factory workers are those by category with least favorable attitude.

Importance of reducing transmission

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	91%	8%	0%
Boys	89%	10%	1%
Mother	90%	9%	0%
Father	89%	11%	1%
French monolingual	90%	9%	1%
Multilingual	89%	11%	0%
Less than 35 years	81%	19%	0%
Between 35 and 44 years	91%	8%	0%
More than 45 years	90%	10%	1%
Low	95%	4%	1%
Low-Medium	88%	12%	0%
Medium-high	93%	7%	0%
High	85%	14%	1%
Farmers/ small bussiness owners	92%	8%	0%
Executives and professionals	96%	4%	0%
Technicians/service workers	90%	9%	0%
Factory workers	78%	21%	2%
Inactive/ (others)	85%	14%	1%

An average of 89 % have a favourable attitude regarding the importance of reducing transmission; 10% were undecided and only 1% unfavorable.

Factory workers and parents aged less than 35 years are the ones with more undecided attitude

Talk with child

	Favourable attitude	Undecided	Unfavourable attitude
	(%)	(%)	(%)
Girls	90%	5%	6%
Boys	83%	9%	8%
Mother	88%	6%	6%
Father	81%	11%	7%
French monolingual	87%	6%	6%
Multilingual	86%	6%	7%
Less than 35 years	72%	16%	12%
Between 35 and 44 years	88%	6%	6%
More than 45 years	88%	6%	7%
Low	90%	4%	6%
Low-Medium	87%	7%	6%
Medium-high	89%	6%	5%
High	83%	8%	10%
Farmers/ small bussiness owners	89%	7%	4%
Executives and professionals	90%	4%	6%
Technicians/service workers	88%	7%	6%
Factory workers	83%	11%	6%
Inactive/ (others)	82%	8%	10%

An average of 86 % have a favourable to talk with their child; 7% were undecided and only 7% unfavorable.

It appears that inactive parents, parents less than 35 years are the most unfavorable regarding this topic.

Talk with healthcare professional

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	95%	3%	2%
Boys	89%	6%	5%
Mother	93%	4%	3%
Father	87%	9%	5%
French monolingual	93%	4%	3%
Multilingual	92%	5%	3%
Less than 35 years	88%	8%	4%
Between 35 and 44 years	93%	4%	3%
More than 45 years	92%	4%	4%
Low	94%	1%	4%
Low-Medium	92%	5%	3%
Medium-high	93%	3%	4%
High	92%	6%	3%
Farmers/ small bussiness owners	92%	4%	4%
Executives and professionals	94%	2%	3%
Technicians/service workers	93%	4%	3%
Factory workers	92%	2%	6%
Inactive/ (others)	88%	8%	4%

An average of 92% have a favorable regarding talking with health care professional, only 5% have an undecided attitude and 4% an unfavorable attitude.

Parents of boys, fathers, parents aged less than 35 years, high school deprivation area and inactive parents are those by category with least favorable attitude.

No time for vaccination

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	85%	5%	9%
Boys	77%	9%	13%
Mother	82%	7%	18%
Father	78%	11%	11%
French monolingual	82%	7%	11%
Multilingual	82%	10%	8%
Less than 35 years	75%	10%	15%
Between 35 and 44 years	81%	7%	12%
More than 45 years	85%	7%	9%
Low	80%	8%	12%
Low-Medium	80%	7%	13%
Medium-high	85%	6%	9%
High	83%	8%	9%
Farmers/ small bussiness owners	75%	7%	18%
Executives and professionals	79%	8%	13%
Technicians/service workers	84%	6%	10%
Factory workers	73%	8%	19%
Inactive/ (others)	84%	10%	7%

An average of 81% have a favorable regarding the lack of time for vaccination, 8% have an undecided attitude and 12% an unfavorable attitude.

Factory workers (19%), farmers (18%), low medium school deprivation area (13%), parents less than 35 years (15%), mothers (18%) are the ones with more unfavorable attitude.

Child is too young to vaccinate

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	75%	14%	11%
Boys	63%	21%	16%
Mother	69%	17%	14%
Father	72%	19%	9%
French monolingual	69%	17%	13%
Multilingual	70%	17%	13%
Less than 35 years	62%	21%	17%
Between 35 and 44 years	70%	18%	12%
More than 45 years	69%	16%	15%
Low	80%	14%	6%
Low-Medium	67%	16%	17%
Medium-high	71%	19%	10%
High	62%	19%	19%
Farmers/ small bussiness owners	63%	25%	12%
Executives and professionals	79%	12%	8%
Technicians/service workers	68%	18%	14%
Factory workers	59%	22%	19%
Inactive/ (others)	63%	21%	16%

An average of 68% have a favorable attitude regarding “child is too young to vaccinate” , 18% have an undecided attitude and 14% an unfavorable attitude.

Parents of boys, mothers, parents aged more than 35 years, high school deprivation area, technicians/ service workers appear to be the more unfavorable.

HPV vaccine benefits outweight risks

	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	78%	17%	5%
Boys	67%	27%	6%
Mother	73%	21%	6%
Father	74%	19%	7%
French monolingual	73%	21%	6%
Multilingual	67%	29%	4%
Less than 35 years	62%	28%	10%
Between 35 and 44 years	74%	21%	5%
More than 45 years	72%	21%	7%
Low	81%	14%	5%
Low-Medium	71%	23%	6%
Medium-high	75%	19%	6%
High	65%	28%	7%
Farmers/ small bussiness owners	79%	19%	1%
Executives and professionals	84%	13%	3%
Technicians/service workers	72%	22%	6%
Factory workers	59%	33%	8%
Inactive/ (others)	62%	29%	10%

An average of 71 % have a favorable attitude regarding HPV vaccine benefits outweigh risks, 23% have an undecided attitude and 6% an unfavorable attitude.

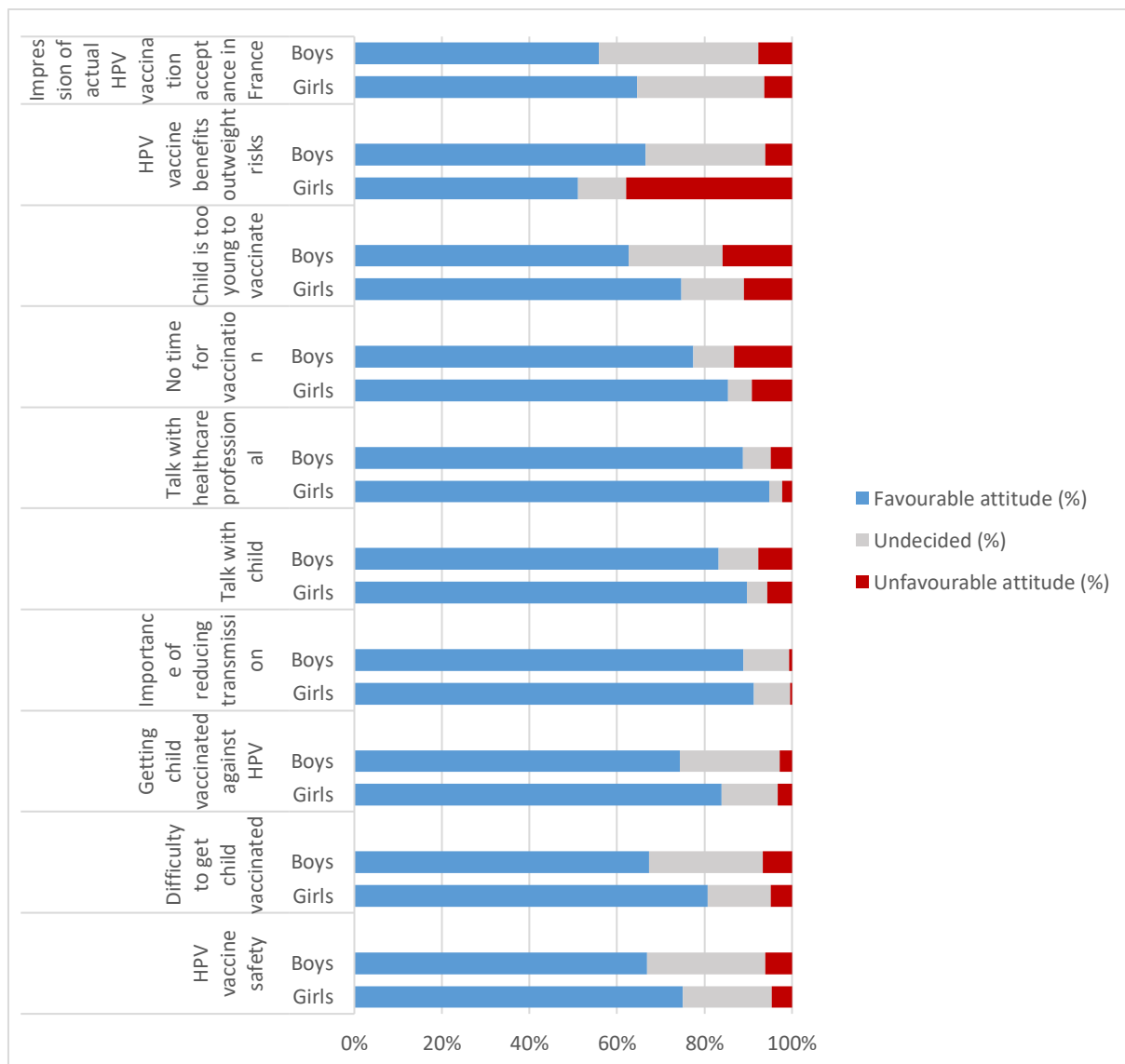
Parents of boys, mothers, multilingual parents, parents aged more than 35 years, high school deprivation area, factory workers appear to be the more unfavorable.

Impression of actual HPV vaccination acceptance in France

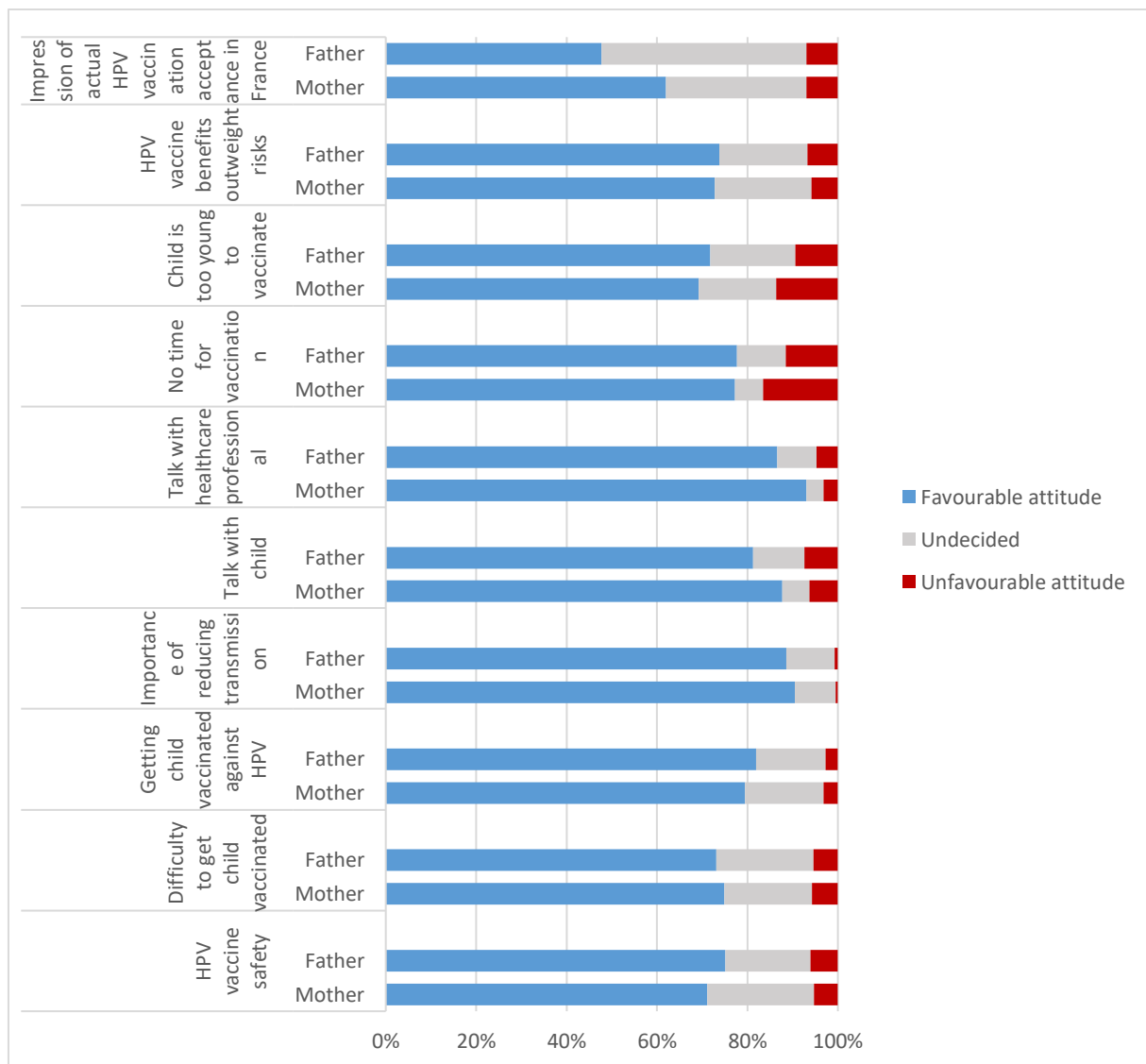
	Favourable attitude (%)	Undecided (%)	Unfavourable attitude (%)
Girls	65%	29%	6%
Boys	56%	36%	8%
Mother	62%	31%	7%
Father	48%	46%	7%
French monolingual	61%	32%	7%
Multilingual	53%	39%	8%
Less than 35 years	62%	28%	10%
Between 35 and 44 years	62%	32%	6%
More than 45 years	59%	33%	8%
Low	61%	30%	9%
Low-Medium	61%	34%	5%
Medium-high	57%	31%	8%
High	57%	35%	8%
Farmers/ small bussiness owners	62%	32%	7%
Executives and professionals	62%	31%	7%
Technicians/service workers	61%	32%	7%
Factory workers	51%	38%	11%
Inactive/ (others)	59%	35%	6%

Impression of actual HPV vaccination acceptance is the topic with the least favorable attitude (59%), 34% are undecided and 7% have an unfavorable attitude.

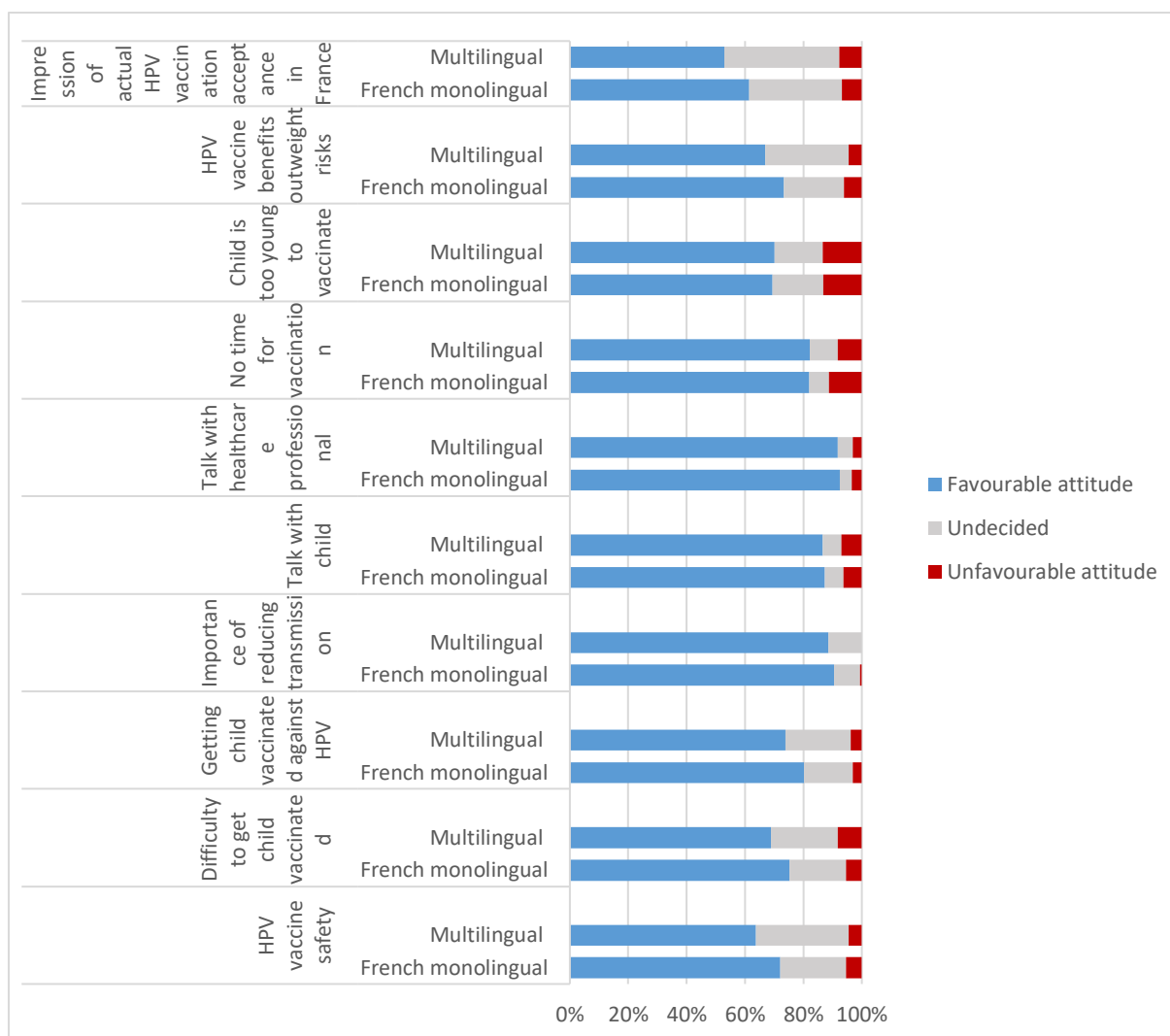
Parents of boys, fathers, multilingual parents, parents aged more than 45 years, high school deprivation area, factory workers appear to be the more unfavorable.



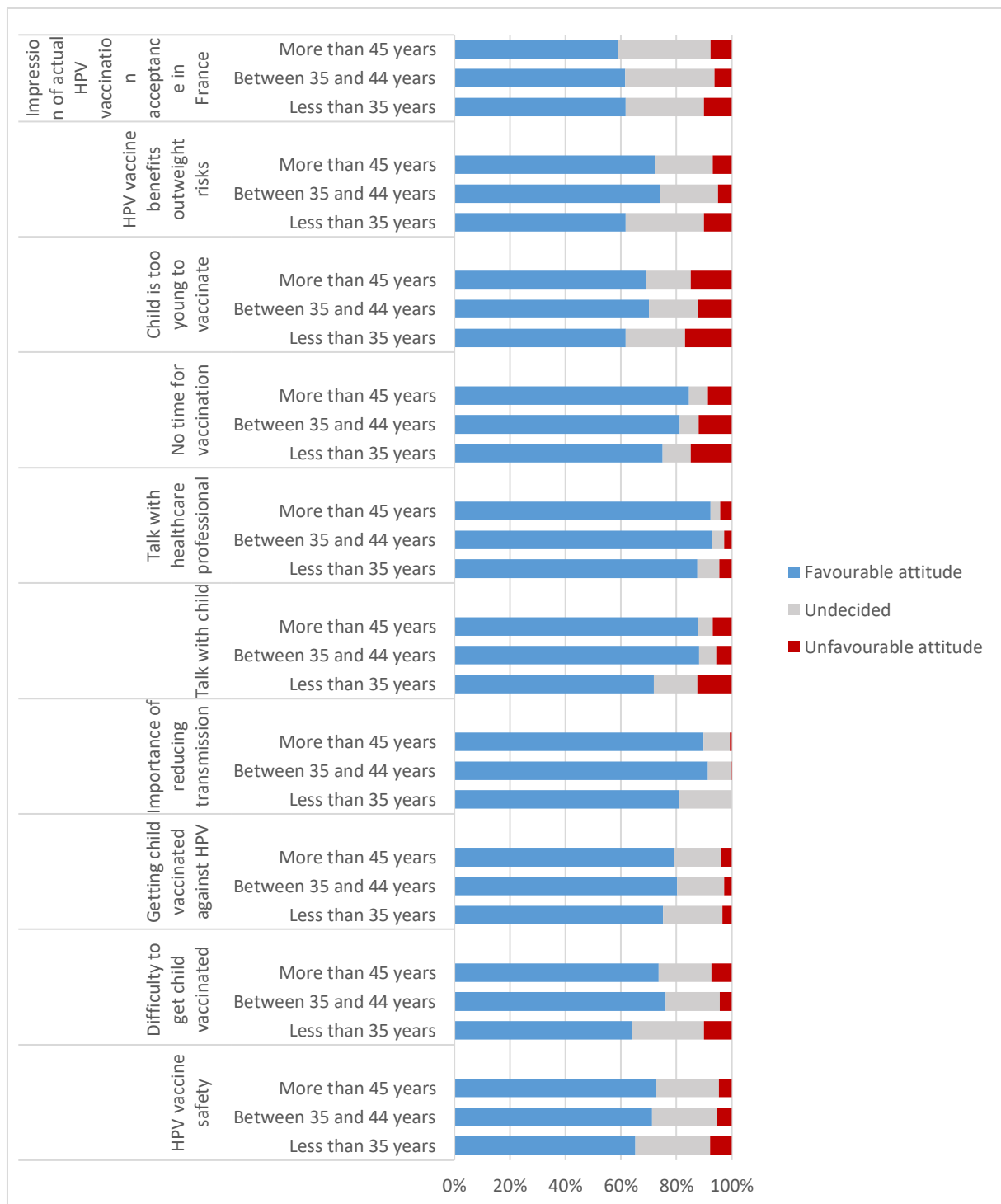
Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by sex . France, 20221-22



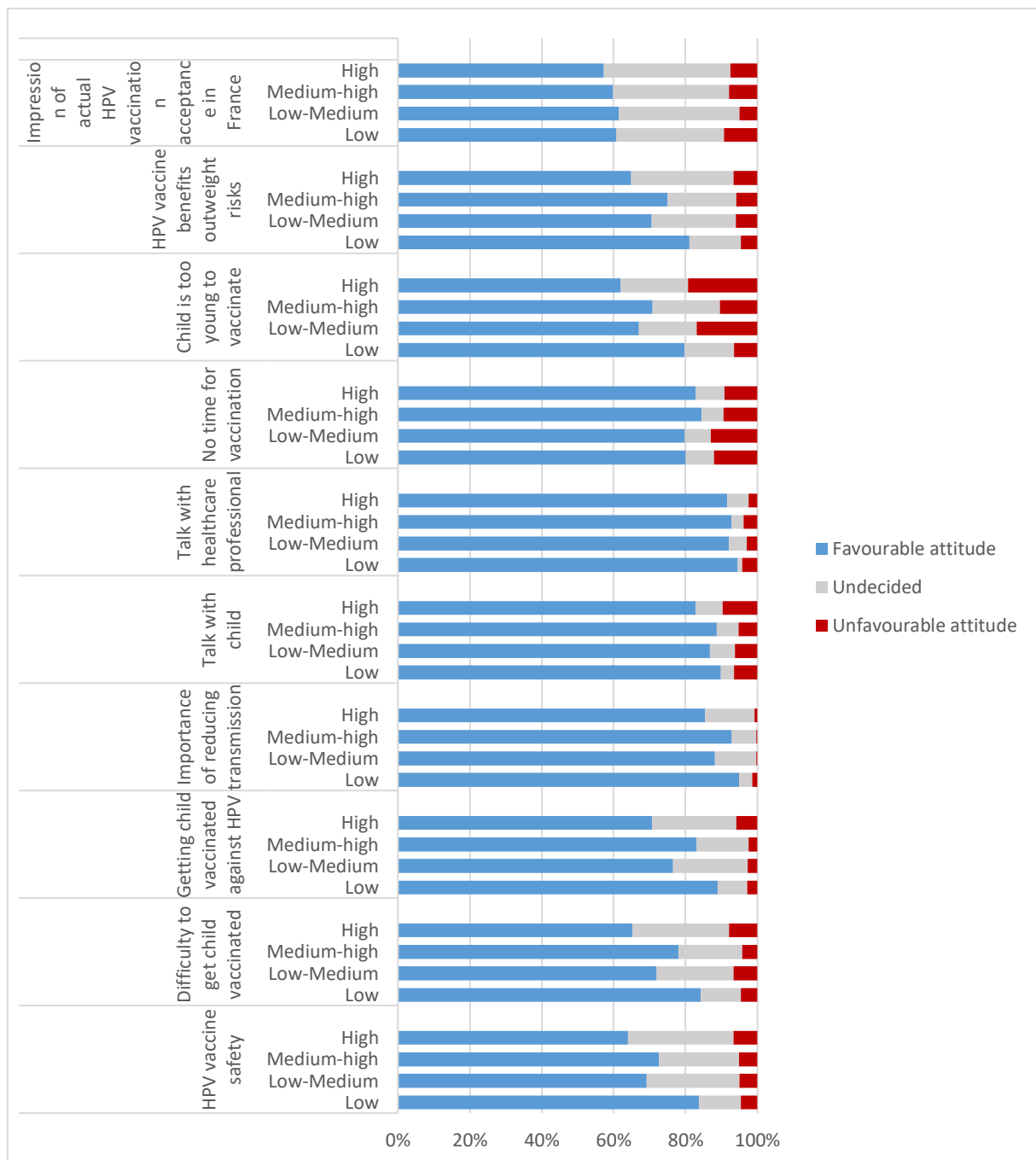
Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by parent's sex . France, 2021-22



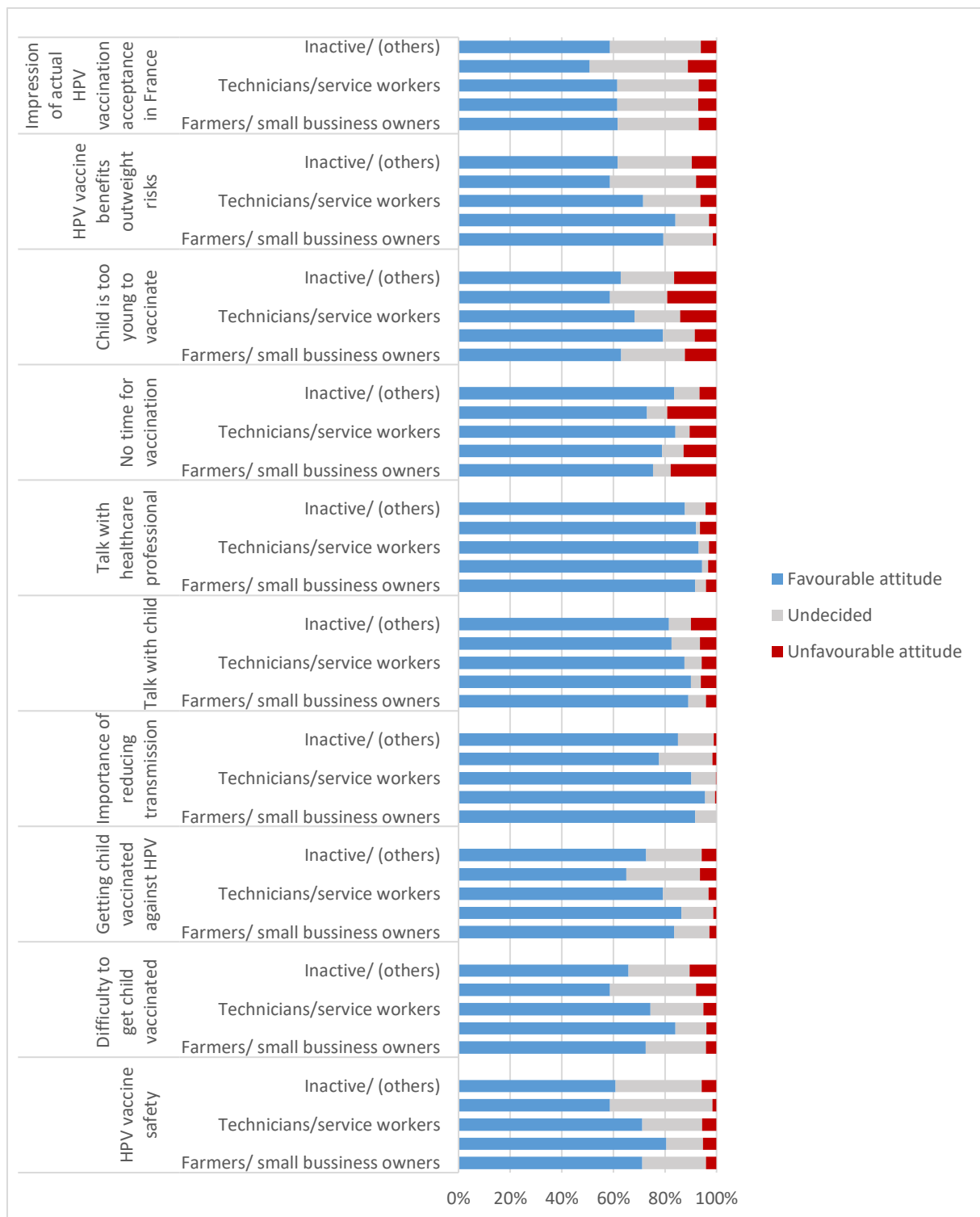
Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by language. France, 2021-22



Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by parent's age France, 2021-22



Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by school deprivation index France, 2021-22



Distribution of attitude (A) items regarding HPV vaccination among parents who have heard about HPV vaccination by parent's occupation. France, 2021-22