

Supplementary material

The supplementary material was provided by the authors and some information may not have been peer reviewed. Any opinions or recommendations discussed are solely those of the author(s) and are not endorsed by the Hong Kong Academy of Medicine and the Hong Kong Medical Association. The Hong Kong Academy of Medicine and the Hong Kong Medical Association disclaim all liability and responsibility arising from any reliance placed on the content.

Supplement to: JKP Chu, CW Sing, Y Li, et al. Factors affecting human papillomavirus vaccine acceptance among parents of Primary 4 to 6 boys and girls in Hong Kong. Hong Kong Med J 2024 Oct;30(5):386-99. https://doi.org/10.12809/hkmj2311144.

Supplementary Table 1. Acceptance of the human papillomavirus vaccine for children

according to study variables among parents of boys*

Socio-demographic characteristics Sex Male 135 (39.1%) 83.0% Female 210 (60.9%) 66.7% Age-group, y ≤30 2 (0.6%) 50% 31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD <20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1%		No. (%)	Acceptance rate
Sex Male 135 (39.1%) 83.0% Female 210 (60.9%) 66.7% Age-group, y ≤30 2 (0.6%) 50% 31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD <20 000	Participants	345	73.0%
Male 135 (39.1%) 83.0% Female 210 (60.9%) 66.7% Age-group, y ≤30 2 (0.6%) 50% 31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Monthly household income, HKD 20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 53% Monthly household income, HKD 40 000-59 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Arts and entertainment 20 (5.8%) 65% Busines	Socio-demographic characteristics		
Female 210 (60.9%) 66.7% Age-group, y ≤30 2 (0.6%) 50% 31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status T5.2% 33.3% Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% education 18 (5.2%) 50% Monthly household income, HKD 20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management <	Sex		
Age-group, y ≤30 2 (0.6%) 50% 31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status Married 327 (94.8%) 575.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD <20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services £ducation 30 (8.7%) 60% Science and technology 12 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Male	135 (39.1%)	83.0%
\$\frac{\$30}{31-35}\$ 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% 41-45 85 (24.6%) 50.5% \	Female	210 (60.9%)	66.7%
31-35 35 (10.1%) 42.9% 36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 420 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60%	Age-group, y		
36-40 217 (62.9%) 85.3% 41-45 85 (24.6%) 56.5% 56.5% 545 6 (1.7%) 50% Marital status Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary 237 (68.7%) 74.7% education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD < 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% 560 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	≤30	2 (0.6%)	50%
41-45 85 (24.6%) 56.5% >45 6 (1.7%) 50% Marital status 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 20 000 9 (2.6%) 22.2% 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% <td>31-35</td> <td>35 (10.1%)</td> <td>42.9%</td>	31-35	35 (10.1%)	42.9%
>45 6 (1.7%) 50% Marital status 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 220 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installati	36-40	217 (62.9%)	85.3%
Marital status 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 220 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	41-45	85 (24.6%)	56.5%
Married 327 (94.8%) 75.2% Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed 327 (68.7%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	>45	6 (1.7%)	50%
Single/separated/divorced/widowed 18 (5.2%) 33.3% Highest education level completed 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 220 000 9 (2.6%) 22.2% 2000-29 999 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% 71.9% 71.9% 71.9% 71.9% >60 000 38 (11.0%) 55.3% 71.9% 71	Marital status		
Highest education level completed 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 220 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Married	327 (94.8%)	75.2%
Secondary school or below 90 (26.1%) 73.3% Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 220 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Single/separated/divorced/widowed	18 (5.2%)	33.3%
Bachelor's degree/non-degree tertiary education 237 (68.7%) 74.7% 74.1%	Highest education level completed		
education Master's/PhD 18 (5.2%) 50% Monthly household income, HKD <20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Secondary school or below	90 (26.1%)	73.3%
Master's/PhD 18 (5.2%) 50% Monthly household income, HKD 20 000 9 (2.6%) 22.2% 20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Bachelor's degree/non-degree tertiary	237 (68.7%)	74.7%
Monthly household income, HKD	education		
<20 000	Master's/PhD	18 (5.2%)	50%
20 000-39 999 159 (46.1%) 81.1% 40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Monthly household income, HKD		
40 000-59 999 139 (40.3%) 71.9% >60 000 38 (11.0%) 55.3% Occupation Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	<20 000	9 (2.6%)	22.2%
>60 000 38 (11.0%) 55.3% Occupation 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	20 000-39 999	159 (46.1%)	81.1%
Occupation 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	40 000-59 999	139 (40.3%)	71.9%
Architecture and engineering 29 (8.4%) 79.3% Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	>60 000	38 (11.0%)	55.3%
Arts and entertainment 20 (5.8%) 65% Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Occupation		
Business administration and management 54 (15.7%) 74.1% Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Architecture and engineering	29 (8.4%)	79.3%
Communications 37 (10.7%) 83.8% Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Arts and entertainment	20 (5.8%)	65%
Community and social services 22 (6.4%) 68.2% Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Business administration and management	54 (15.7%)	74.1%
Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Communications	37 (10.7%)	83.8%
Education 30 (8.7%) 60% Science and technology 22 (6.4%) 63.6% Installation repair and maintenance 21 (6.1%) 76.2%	Community and social services		68.2%
Installation repair and maintenance 21 (6.1%) 76.2%		· · ·	60%
Installation repair and maintenance 21 (6.1%) 76.2%	Science and technology	22 (6.4%)	63.6%
	Installation repair and maintenance	· · ·	76.2%
	Farming fishing and forestry	22 (6.4%)	86.4%

Health and medicine Law and public policy Law and public policy Sales 21 (6.1%) 95.2% Others 9 (2.6%) 100% No. of child(ren) in Primary 4 1 238 (69.0%) 85.3% 2 88 (25.5%) 51.1% ≥3 19 (5.5%) 51.1% ≥3 19 (5.5%) 85.3% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) No 217 (62.9%) 86.6% Not sure 43 (12.5%) 50% No 258 (74.8%) 79.8% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear [†] Yes 21 (10.0%) No 135 (64.3%) 77.8% No 135 (64.3%) 77.8% No 135 (64.3%) 77.8% No 135 (64.3%) 77.8% No 140 (25.7%) Alied Private Public local Private 77 (22.3%) Aided Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) Primary 5 Primary 6 Primary 6 Primary 6 Primary 6 Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Vaccines Yes 128 (37.1%) 46.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Vaccines Yes 128 (37.1%) 46.9% No 204 (59.1%) 89.2%	Government	24 (7.0%)	70.8%
Sales 21 (6.1%) 95.2% Others 9 (2.6%) 100% No. of child(ren) in Primary 6 1 238 (69.0%) 85.3% 2 88 (25.5%) 51.1% ≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines YCs 85 (24.6%) 40% No 217 (62.9%) 86.6% 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Ycs 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear [†] Ycs 21 (10.0%) 42.9% No 135 (64.3%) 77.8% No tsure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2%	Health and medicine	19 (5.5%)	57.9%
Others 9 (2.6%) 100% No. of child(ren) in Primary 4 to Primary 6 1 238 (69.0%) 85.3% 2 88 (25.5%) 51.1% ≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear* Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% No sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment 9 (2.6%) 67.7% Primary 4 93 (27.0%) 71.2%	Law and public policy	15 (4.3%)	40%
No. of child(ren) in Primary 4 to Primary 6 1 238 (69.0%) 85.3% 2 88 (25.5%) 51.1% ≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear [†] Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Sales	21 (6.1%)	95.2%
1 238 (69.0%) 85.3% 2 88 (25.5%) 51.1% ≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% No sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% No sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% <td< td=""><td>Others</td><td>9 (2.6%)</td><td>100%</td></td<>	Others	9 (2.6%)	100%
2 88 (25.5%) 51.1% ≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine 24 (7.0%) 50% Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% No sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.	No. of child(ren) in Primary 4 to Primary 6		
≥3 19 (5.5%) 21.1% Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% No sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No sure 63 (18.3%) 54% No 258 (74.8%) 79.8% No sure 63 (18.3%) 54% Completion of Pap smear [†] Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% No sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.	1	238 (69.0%)	85.3%
Receipt of regular seasonal influenza vaccines Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% No tsure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2%	2	88 (25.5%)	51.1%
Yes 85 (24.6%) 40% No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Tes 24 (7.0%) 50% No 258 (74.8%) 79.8% No sure 63 (18.3%) 54% Completion of Pap smear† Tes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Frimary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% No tsure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	≥3	19 (5.5%)	21.1%
No 217 (62.9%) 86.6% Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 4	Receipt of regular seasonal influenza vaccines		
Not sure 43 (12.5%) 69.8% Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Frimary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	Yes	85 (24.6%)	40%
Receipt of HPV vaccine Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment 71.1% 66.7% Primary 4 93 (27.0%) 67.7% 71.2% Primary 5 156 (45.2%) 71.2% 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	No	217 (62.9%)	86.6%
Yes 24 (7.0%) 50% No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment 93 (27.0%) 67.7% Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 73.2% Yes 128 (37.1%) 46.9%	Not sure	43 (12.5%)	69.8%
No 258 (74.8%) 79.8% Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Receipt of HPV vaccine		
Not sure 63 (18.3%) 54% Completion of Pap smear† Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Yes	24 (7.0%)	50%
Completion of Pap smear† 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type 48.1% Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment 71.2% Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	No	258 (74.8%)	79.8%
Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type TO (22.3%) 46.8% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Trimary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	Not sure	63 (18.3%)	54%
Yes 21 (10.0%) 42.9% No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type TO (22.3%) 46.8% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Trimary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	Completion of Pap smear [†]	, , ,	
No 135 (64.3%) 77.8% Not sure 54 (25.7%) 48.1% Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	-	21 (10.0%)	42.9%
Child's school type Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment 80 (27.0%) 67.7% Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza 46.9%	No		77.8%
Public local 214 (62.0%) 83.2% Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza Yes 128 (37.1%) 46.9%	Not sure	54 (25.7%)	48.1%
Private 77 (22.3%) 46.8% Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Child's school type		
Aided 45 (13.0%) 71.1% Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Public local	214 (62.0%)	83.2%
Direct Subsidy Scheme 9 (2.6%) 66.7% Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Private	77 (22.3%)	46.8%
Child's current year of enrolment Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Aided	45 (13.0%)	71.1%
Primary 4 93 (27.0%) 67.7% Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 128 (37.1%) 46.9%	Direct Subsidy Scheme	9 (2.6%)	66.7%
Primary 5 156 (45.2%) 71.2% Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 128 (37.1%) 46.9%	Child's current year of enrolment		
Primary 6 96 (27.8%) 81.2% Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 128 (37.1%) 46.9%	Primary 4	93 (27.0%)	67.7%
Child's receipt of any vaccine under HKCIP Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Primary 5	156 (45.2%)	71.2%
Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 128 (37.1%) 46.9%	Primary 6	96 (27.8%)	81.2%
Yes 93 (27.0%) 40.9% No 196 (56.8%) 88.3% Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines 128 (37.1%) 46.9%	Child's receipt of any vaccine under HKCIP	· · · · · · · · · · · · · · · · · · ·	
Not sure 56 (16.2%) 73.2% Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%		93 (27.0%)	40.9%
Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	No	196 (56.8%)	88.3%
Child's receipt of regular seasonal influenza vaccines Yes 128 (37.1%) 46.9%	Not sure		73.2%
vaccines Yes 128 (37.1%) 46.9%	Child's receipt of regular seasonal influenza		
,	1 0		
· /	Yes	128 (37.1%)	46.9%
	No	` ,	89.2%

Not sure	13 (3.8%)	76.9%
Awareness and knowledge of HPV		
Heard of HPV vaccine		
Yes	278 (80.6%)	82.0%
No	67 (19.4%)	35.8%
HPV knowledge score	Accept: 7.04 ± 2.34	N/A
	Decline: 5.34 ± 2.46	
Discussion with child regarding prevention of		
STDs		
Yes	100 (29.0%)	49%
No	201 (58.3%)	80.6%
Not sure	44 (12.8%)	93.2%
Attitudes towards HPV and HPV vaccine		
I believe it's better for my child to receive the		
HPV vaccine before they become sexually active		
Strongly disagree	6 (1.7%)	0
Disagree	16 (4.6%)	6.2%
Neutral	130 (37.7%)	85.4%
Agree	184 (53.3%)	73.4%
Strongly agree	9 (2.6%)	55.6%
Age at which a child should receive the HPV		
vaccine, y		
Never	9 (2.6%)	11.1%
<9	0	N/A
9-10	6 (1.7%)	33.3%
11-12	35 (10.1%)	68.6%
13-14	92 (26.7%)	68.5%
15-16	91 (26.4%)	81.3%
17-18	104 (30.1%)	81.7%
>18	8 (2.3%)	37.5%
The HPV vaccine is too expensive		
Strongly disagree	2 (0.6%)	0
Disagree	4 (1.2%)	25%
Neutral	23 (6.7%)	21.7%
Agree	140 (40.6%)	80%
Strongly agree	176 (51.0%)	76.1%
HPV infection is very common		
Strongly disagree	8 (2.3%)	12.5%
= : =	• /	

Disagree	24 (7.0%)	45.8%
Neutral	90 (26.1%)	62.2%
Agree	210 (60.9%)	82.4%
Strongly agree	13 (3.8%)	84.6%
I believe my child is at risk of HPV infection in		
the future		
Strongly disagree	9 (2.6%)	22.2%
Disagree	20 (5.8%)	45%
Neutral	45 (13.0%)	48.9%
Agree	266 (77.1%)	80.8%
Strongly agree	5 (1.4%)	80%
I believe the HPV vaccine is safe for my child		
Strongly disagree	1 (0.3%)	0
Disagree	7 (2.0%)	0
Neutral	23 (6.7%)	52.2%
Agree	155 (44.9%)	83.2%
Strongly agree	159 (46.1%)	69.8%
I believe my child can be protected from HPV		
without HPV vaccination		
Strongly disagree	1 (0.3%)	0
Disagree	270 (78.3%)	79.3%
Neutral	39 (11.3%)	59%
Agree	14 (4.1%)	78.6%
Strongly agree	21 (6.1%)	19%
I believe the HPV vaccine is effective in		
preventing HPV infection for my daughter/son		
Strongly disagree	2 (0.6%)	0
Disagree	4 (1.2%)	0
Neutral	23 (6.7%)	56.5%
Agree	286 (82.9%)	79.4%
Strongly agree	30 (8.7%)	40%
I think HPV vaccination will encourage my child		
4		
to engage in early sexual activity		
Strongly disagree	11 (3.2%)	45.5%
	11 (3.2%) 281 (81.4%)	45.5% 77.6%
Strongly disagree		
Strongly disagree Disagree	281 (81.4%)	77.6%

I think HPV vaccination will encourage my child		
not to use protection during sex		
Strongly disagree	32 (9.3%)	75%
Disagree	255 (73.9%)	77.3%
Neutral	38 (11.0%)	52.6%
Agree	14 (4.1%)	71.4%
Strongly agree	6 (1.7%)	16.7%
I think people will be labelled promiscuous if		
they are infected with HPV		
Strongly disagree	81 (23.5%)	72.8%
Disagree	208 (60.3%)	80.3%
Neutral	28 (8.1%)	35.7%
Agree	23 (6.7%)	65.2%
Strongly agree	5 (1.4%)	20%
I am worried about the short-term side-effects		
(eg, headache, dizziness, and redness at the		
injection site) of the HPV vaccine		
Strongly disagree	6 (1.7%)	50%
Disagree	36 (10.4%)	55.6%
Neutral	174 (50.4%)	73.6%
Agree	88 (25.5%)	71.6%
Strongly agree	41 (11.9%)	92.7%
I am worried that the HPV vaccine might affect		
adolescent development		
Strongly disagree	7 (2.0%)	42.9%
Disagree	122 (35.4%)	72.1%
Neutral	150 (43.5%)	68.7%
Agree	59 (17.1%)	93.2%
Strongly agree	7 (2.0%)	42.9%
I am worried that the HPV vaccine might have		
unknown long-term side-effects		
Strongly disagree	6 (1.7%)	33.3%
Disagree	136 (39.4%)	71.3%
Neutral	136 (39.4%)	72.8%
Agree	62 (18.0%)	83.9%
Strongly agree	5 (1.4%)	40%
I think it is difficult to explain the reason for HPV		
vaccination to my child		

Strongly disagree	3 (0.9%)	33.3%
Disagree	57 (16.5%)	77.2%
Neutral	132 (38.3%)	74.2%
Agree	150 (43.5%)	72%
Strongly agree	3 (0.9%)	33.3%

Abbreviations: HKCIP = Hong Kong Childhood Immunisation Programme; HKD = Hong Kong dollars; HPV = human papillomavirus; N/A = not applicable; STD = sexually transmitted disease

^{*} Data are shown as No. (%), %, or mean ± standard deviation, unless otherwise specified

[†] Percentages were calculated among female participants (n=210)

Supplementary Table 2. Acceptance of the human papillomavirus vaccine for children

according to study variables among parents of girls*

	No. (%)	Acceptance rate
Participants	451	89.6%
Socio-demographic characteristics		
Sex		
Male	134 (29.7%)	86.6%
Female	317 (70.3%)	90.9%
Age-group, y		
≤30	5 (1.1%)	100%
31-35	30 (6.7%)	86.7%
36-40	356 (78.9%)	92.7%
41-45	59 (13.1%)	71.2%
>45	1 (0.2%)	100%
Marital status		
Married	438 (97.1%)	89.7%
Single/separated/divorced/widowed	13 (2.9%)	84.6%
Highest education level completed		
Secondary school or below	78 (17.3%)	91%
Bachelor's degree/non-degree tertiary	364 (80.7%)	89%
education		
Master's/PhD	9 (2.0%)	100%
Monthly household income, HKD		
<20 000	17 (3.8%)	70.6%
20 000-39 999	234 (51.9%)	87.2%
40 000-59 999	175 (38.8%)	94.3%
>60 000	25 (5.5%)	92%
Occupation		
Architecture and engineering	24 (5.3%)	87.5%
Arts and entertainment	25 (5.5%)	92%
Business administration and management	53 (11.8%)	92.5%
Communications	53 (11.8%)	83%
Community and social services	38 (8.4%)	89.5%
Education	31 (6.9%)	87.1%
Science and technology	32 (7.1%)	96.9%
Installation repair and maintenance	33 (7.3%)	87.9%
Farming fishing and forestry	17 (3.8%)	100%

Health and medicine Law and public policy Sales 31 (6.9%) Sales 31 (6.9%) No. 6 child(ren) in Primary 4 to Primary 6 1 320 (71.0%) 94.4% 2 112 (24.8%) ≥3 19 (4.2%) S2.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) No 286 (63.4%) No 286 (63.4%) No 286 (63.4%) No 391 (86.7%) No 391 (86.7%) 90% Not sure 103 (22.8%) 96.1% Receipt of Pap smear [†] Yes 5 (1.6%) No 267 (84.2%) 91.% Completion of Pap smear [†] Yes 5 (1.6%) No 267 (84.2%) 91.% Child's current year of enrolment Primary 4 Primary 4 Primary 5 Possible Secupt of engular seasonal influenze 103 (22.8%) No 320 (71.0%) 90.8% Primary 5 Primary 6 115 (25.5%) No 320 (71.0%) 90.8% No 320 (71.0%) 90.8% Primary 6 Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza	Government	50 (11.1%)	88%
Law and public policy Sales 31 (6.9%) 80.6% Others 27 (6.0%) 100% No. of child(ren) in Primary 4 to Primary 6 1 320 (71.0%) 2 112 (24.8%) ≥3 19 (4.2%) ≥3 19 (4.2%) 82.1% ≥3 19 (4.2%) 80.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear [†] Yes 5 (1.6%) 80% No 267 (84.2%) 91.6% Private Aided 66 (14.6%) Aided Aided 66 (14.6%) Private 103 (22.8%) Private 103 (22.8%) 81.6% Aided 66 (14.6%) Aided 66 (14.6%) Aided Direct Subsidy Scheme Child's current year of enrolment Primary 4 141 (31.3%) Primary 5 195 (43.2%) Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) No 320 (71.0%) 96.9% No Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Health and medicine	· /	94.1%
Sales 31 (6.9%) 80.6% Others 27 (6.0%) 100% No. of child(ren) in Primary 4 to Primary 6 320 (71.0%) 94.4% 1 320 (71.0%) 94.4% 2 112 (24.8%) 82.1% ≥3 19 (4.2%) 52.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear* Yes 5 (1.6%) 80% No 267 (84.2%) 91% No 267 (84.2%) 91% No sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4	Law and public policy	,	85%
Others 27 (6.0%) 100% No. of child(ren) in Primary 4 to Primary 6 320 (71.0%) 94.4% 2 112 (24.8%) 82.1% ≥3 19 (4.2%) 52.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear [†] Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment 915 (43.2%) 86.7% Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 <td></td> <td>` '</td> <td>80.6%</td>		` '	80.6%
No. of child(ren) in Primary 4 to Primary 6 1 320 (71.0%) 94.4% 2 112 (24.8%) 82.1% ≥3 19 (4.2%) 52.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear [†] Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Others	,	100%
1 320 (71.0%) 94.4% 2 112 (24.8%) 82.1% ≥3 19 (4.2%) 52.6% Receipt of regular seasonal influenza vaccines Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear† Yes 5 (1.6%) 80% No 267 (84.2%) 91.% No 267 (84.2%) 91.% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	No. of child(ren) in Primary 4 to Primary 6	,	
≥3	1	320 (71.0%)	94.4%
≥3	2		82.1%
Yes	≥3		52.6%
Yes 62 (13.7%) 80.6% No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine 71.4% Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear† 7 7 Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type 90.1% 81.6% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment 90.8% 80.7% Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% <td>Receipt of regular seasonal influenza vaccines</td> <td></td> <td></td>	Receipt of regular seasonal influenza vaccines		
No 286 (63.4%) 89.2% Not sure 103 (22.8%) 96.1% Receipt of HPV vaccine Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear† Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%		62 (13.7%)	80.6%
Not sure 103 (22.8%) 96.1%	No	· /	89.2%
Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear† Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza Vaccines Yes 83 (18.4%) 61.4%	Not sure	· ,	96.1%
Yes 14 (3.1%) 71.4% No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear† Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza Vaccines Yes 83 (18.4%) 61.4%	Receipt of HPV vaccine		
No 391 (86.7%) 90% Not sure 46 (10.2%) 91.3% Completion of Pap smear* Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	•	14 (3.1%)	71.4%
Not sure 46 (10.2%) 91.3% Completion of Pap smear† Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	No	· · · · · · · · · · · · · · · · · · ·	90%
Completion of Pap smear† 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza Yes 83 (18.4%) 61.4%	Not sure	•	91.3%
Yes 5 (1.6%) 80% No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Completion of Pap smear [†]	,	
No 267 (84.2%) 91% Not sure 45 (14.2%) 91.1% Child's school type Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza Vaccines Yes 83 (18.4%) 61.4%		5 (1.6%)	80%
Child's school type 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	No	· · · · · ·	91%
Public local 273 (60.5%) 96.3% Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Not sure	· /	91.1%
Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Child's school type	,	
Private 103 (22.8%) 81.6% Aided 66 (14.6%) 74.2% Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Public local	273 (60.5%)	96.3%
Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment 141 (31.3%) 90.8% Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza 83 (18.4%) 61.4%	Private		81.6%
Direct Subsidy Scheme 9 (2.0%) 88.9% Child's current year of enrolment 141 (31.3%) 90.8% Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza 83 (18.4%) 61.4%	Aided	66 (14.6%)	74.2%
Primary 4 141 (31.3%) 90.8% Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza 83 (18.4%) 61.4%	Direct Subsidy Scheme	9 (2.0%)	
Primary 5 195 (43.2%) 86.7% Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Child's current year of enrolment	, ,	
Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Primary 4	141 (31.3%)	90.8%
Primary 6 115 (25.5%) 93% Child's receipt of any vaccine under the HKCIP 85 (18.8%) 60% Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	•	· /	86.7%
Yes 85 (18.8%) 60% No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines 83 (18.4%) 61.4%	Primary 6	115 (25.5%)	93%
No 320 (71.0%) 96.9% Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Child's receipt of any vaccine under the HKCIP	· · ·	
Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	Yes	85 (18.8%)	60%
Not sure 46 (10.2%) 93.5% Child's receipt of regular seasonal influenza vaccines Yes 83 (18.4%) 61.4%	No	320 (71.0%)	96.9%
vaccines Yes 83 (18.4%) 61.4%	Not sure	46 (10.2%)	93.5%
Yes 83 (18.4%) 61.4%	Child's receipt of regular seasonal influenza	· · · · · · · · · · · · · · · · · · ·	
,	vaccines		
No 336 (74.5%) 96.1%	Yes	83 (18.4%)	61.4%
	No	336 (74.5%)	96.1%

Not sure	32 (7.1%)	93.8%
Awareness and knowledge of HPV	32 (7.170)	93.070
Heard of HPV vaccine		
Yes	350 (77.6%)	91.4%
No	101 (22.4%)	83.2%
HPV knowledge score	Accept: 6.12 ± 2.68	N/A
III v knowledge score	Decline: 5.13 ± 3.02	14/11
Discussion with child regarding prevention of	Decime: 3.13 ± 3.02	
STDs		
Yes	53 (11.8%)	88.7%
No	340 (75.4%)	88.8%
Not sure	58 (12.9%)	94.8%
Attitudes towards HPV and HPV vaccine	(-2.5 - 1)	,
I believe it's better for my child to receive the		
HPV vaccine before they become sexually active		
Strongly disagree	14 (3.1%)	35.7%
Disagree	23 (5.1%)	65.2%
Neutral	235 (52.1%)	93.6%
Agree	172 (38.1%)	92.4%
Strongly agree	7 (1.6%)	71.4%
Age at which a child should receive the HPV	· · · · · · · · · · · · · · · · · · ·	
vaccine, y		
Never	10 (2.2%)	10%
<9	1 (0.2%)	100%
9-10	6 (1.3%)	66.7%
11-12	42 (9.3%)	85.7%
13-14	108 (23.9%)	90.7%
15-16	121 (26.8%)	89.3%
17-18	154 (34.1%)	95.5%
>18	9 (2.0%)	100%
The HPV vaccine is too expensive		
Strongly disagree	3 (0.7%)	33.3%
Disagree	24 (5.3%)	58.3%
Neutral	51 (11.3%)	60.8%
Agree	187 (41.5%)	97.9%
Strongly agree	186 (41.2%)	94.1%
HPV infection is very common		
Strongly disagree	15 (3.3%)	33.3%

Disagree	30 (6.7%)	46.7%
Neutral	135 (29.9%)	90.4%
Agree	263 (58.3%)	97.7%
Strongly agree	8 (1.8%)	75%
I believe my child is at risk of HPV infection in		
the future		
Strongly disagree	9 (2.0%)	11.1%
Disagree	34 (7.5%)	55.9%
Neutral	90 (20.0%)	84.4%
Agree	315 (69.8%)	97.5%
Strongly agree	3 (0.7%)	33.3%
I believe the HPV vaccine is safe for my child		
Strongly disagree	2 (0.4%)	50%
Disagree	18 (4.0%)	72.2%
Neutral	46 (10.2%)	71.7%
Agree	249 (55.2%)	98.4%
Strongly agree	136 (30.2%)	82.4%
I believe my child can be protected from HPV		
without HPV vaccination		
Strongly disagree	4 (0.9%)	100%
Disagree	328 (72.7%)	96.6%
Neutral	72 (16.0%)	87.5%
Agree	17 (3.8%)	76.5%
Strongly agree	30 (6.7%)	23.3%
I believe the HPV vaccine is effective in		
preventing HPV infection for my daughter/son		
Strongly disagree	1 (0.2%)	0%
Disagree	16 (3.5%)	75%
Neutral	51 (11.3%)	78.4%
Agree	349 (77.4%)	97.7%
Strongly agree	34 (7.5%)	32.4%
I think HPV vaccination will encourage my child		
to engage in early sexual activity		
	11 (2 10 ()	63.6%
Strongly disagree	11 (2.4%)	05.070
Disagree Disagree	11 (2.4%) 337 (74.7%)	95%
	` ′	
Disagree	337 (74.7%)	95%

I think HPV vaccination will encourage my child		
not to use protection during sex		
Strongly disagree	26 (5.8%)	69.2%
Disagree	325 (72.1%)	95.4%
Neutral	76 (16.9%)	86.8%
Agree	9 (2.0%)	77.8%
Strongly agree	15 (3.3%)	20%
I think people will be labelled promiscuous if	10 (0.073)	
they are infected with HPV		
Strongly disagree	90 (20.0%)	96.7%
Disagree	287 (63.6%)	95.8%
Neutral	55 (12.2%)	65.5%
Agree	8 (1.8%)	50%
Strongly agree	11 (2.4%)	18.2%
I am worried about the short-term side-effects	,	
(eg, headache, dizziness, and redness at the		
injection site) of the HPV vaccine		
Strongly disagree	4 (0.9%)	50%
Disagree	60 (13.3%)	85%
Neutral	241 (53.4%)	90.5%
Agree	132 (29.3%)	95.5%
Strongly agree	14 (3.1%)	50%
I am worried that the HPV vaccine might affect		
adolescent development		
Strongly disagree	14 (3.1%)	85.7%
Disagree	184 (40.8%)	95.7%
Neutral	185 (41.0%)	88.6%
Agree	55 (12.2%)	81.8%
Strongly agree	13 (2.9%)	53.8%
I am worried that the HPV vaccine might have		
unknown long-term side-effects		
Strongly disagree	3 (0.7%)	66.7%
Disagree	186 (41.2%)	96.8%
Neutral	182 (40.4%)	88.5%
Agree	65 (14.4%)	83.1%
Strongly agree	15 (3.3%)	46.7%
I think it is difficult to explain the reason for		
HPV vaccination to my child		

Strongly disagree	4 (0.9%)	75%
Disagree	64 (14.2%)	90.6%
Neutral	168 (37.3%)	86.9%
Agree	202 (44.8%)	96.5%
Strongly agree	13 (2.9%)	15.4%

Abbreviations: HKCIP = Hong Kong Childhood Immunisation Programme; HKD = Hong Kong dollars; HPV = human papillomavirus; N/A = not applicable; STD = sexually transmitted disease

^{*} Data are shown as No. (%), %, or mean \pm standard deviation, unless otherwise specified

[†] Percentages were calculated among female participants (n=317)

Supplementary Table 3. Awareness and knowledge of human papillomavirus in parents of $boys^*$

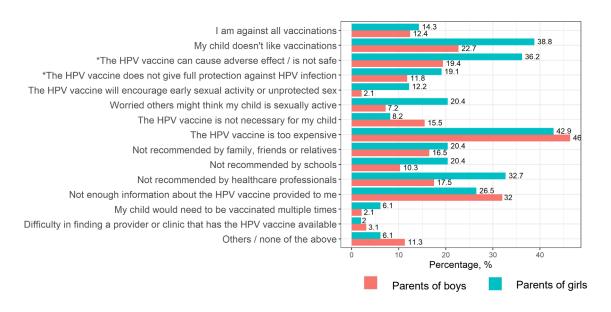
Response to the statement 'I am worried that the HPV vaccine might affect adolescent development'

	Agree/Strongly agree	Neutral	Disagree/Strongly	
	(n=66)	(n=129)	disagree (n=150)	P value
Heard of HPV vaccine	62 (93.9%)	94 (72.9%)	122 (81.3%)	0.002
HPV knowledge score	7.59 ± 2.46	6.40 ± 2.44	6.30 ± 2.43	0.001

Abbreviation: HPV = human papillomavirus

^{*} Data are shown as No. (%) or mean \pm standard deviation

Supplementary Figure. Reasons for declining human papillomavirus vaccination for their child among parents of boys (n=97) and parents of girls (n=49)



Abbreviation: HPV = human papillomavirus

^{*} The denominators were 93 and 47 for parents of boys and parents of girls, respectively, because participants whose children received the HPV vaccine were unable to choose a reason for declining

Appendix 1. English version of the survey

Factors contributing to the acceptance of HPV vaccine among parents of primary school students in Hong Kong in 2021

Section 1: Sociodemographics

1.	What is your g ☐ Male						
2.	What is your a $\square \le 30$	age? □ 31–35	□ 36-	40	□ 41–45	□ >45	
3.	What is your i ☐ Single	marital status? □Married	□Sepa	rated /]	Divorced / Wi	dowed	
4.	☐ Below Prin	ghest level of enary School Tertiary Educ		□ Prin	nary school	:	☐ Secondary ☐ Master's/PhD
5.	☐ Arts and Er ☐ Business, A ☐ Communic ☐ Community ☐ Education ☐ Science and ☐ Installation	re and Engineer ntertainment Administration a ations y and Social Sed Technology, Repair and Mishing and Forent Medicine ablic Policy	and Marrvices		nt		
6.	What is your o	district of reside	ence?				

	☐ Central &	& Western	☐ Eastern	☐ Southern	□ Wan
	Chai	City	□ Vyynya Tomo	☐ Sham Shui Po	☐ Islands
	☐ Kowloon	<u> </u>	☐ Kwun Tong		
	☐ Yau Tsin	_	☐ Wong Tai Sin	☐ Kwai Tsing	□ North
	☐ Sai Kung ☐ Tuen Mu		☐ Sha Tin ☐ Yuen Long	☐ Tsuen Wan	□ Tai Po
	□ Tuen Mu	.11	□ Tuen Long		
7.	What is you	ır monthly hou	sehold income?		
	□ <10,000	HKD			
	□ 10,000–1	9,999 HKD			
	□ 20,000–3	89,999 HKD			
	□ 40,000–5	59,999 HKD			
	□ 60,000–7	79,999 HKD			
	□ >80,000	HKD			
8.	Do you rece		nfluenza vaccine on a re	egular basis?	
	□ Yes	□ No	□ Not sure		
9.	Have you re	eceived the HP	V vaccine before?		
	□ Yes	□ No	□ Not sure		
10	. (For femal	e respondents	ONLY) Have you take	en a pap smear before?	
	□ Yes	□ No	☐ Not sure		
11	How many	child(ren) do x	ou have in Primary 4 to	o Primary 69	
- 11	. How many	$\Box 2$		_	
	— 1			3	
			in the survey for the [O	LDEST] child only if y	ou have more
than c	ne child atter	nding primary	4-6.		
12	What is you	ır child's gend	er?		
	□ Male	☐ Female			
13	•	ır child's schoo	• •		
	☐ Public lo		☐ Private schools		
	☐ Aided sc	hools	☐ Direct Subsidy S	Scheme (DSS) schools	

14.	. What district is your	child's s	school in?			
	☐ Central & Western	1	☐ Eastern		☐ Southern	□ Wan
	Chai					
	☐ Kowloon City		☐ Kwun Tong	5	☐ Sham Shui Po	□ Islands
	☐ Yau Tsim Mong		☐ Wong Tai S	Sin	☐ Kwai Tsing	□ North
	□ Sai Kung		☐ Sha Tin		☐ Tsuen Wan	□ Tai Po
	☐ Tuen Mun		☐ Yuen Long			
15.	. What is your child's s	school g	grade?			
	☐ Primary 4	□ Prin	mary 5	□ Prin	nary 6	
16.	. Has your child receiv	ed any o	of the vaccines	recomn	nended under the Hong	g Kong
	Childhood Immunisa	tion Pro	gramme (HKC	IP) subs	sidised by the governm	ent?
	□Yes	□ No	`	□ Not		
17.	. Does your child recei	ve the s	easonal influen	za vacc	ine on a regular basis?	
	☐ Yes	□ No		□ Not	sure	
18.	. Has your child receiv				_	
	□ Yes	□ No	(Go to Questio	on 20) □	Not sure (Go to Que	stion 20)
19.	. Was your child vacci	nated fo	or HPV vaccine	through	n the HKCIP?	
	□ Yes	□ No		□ Not	sure	
20.	. Do you discuss about	the pre	vention of sexu	ally tra	nsmitted diseases (STI	s) with
	your child?					
	☐ Yes	□ No		□ Not	sure	
a .•						LINN
		<u>knowled</u>	lge about hum	an papi	illomavirus (HPV) an	<u>d HPV</u>
<u>vaccin</u>	<u>le</u>					
21	. Have you heard of the	e HPV V	Vaccine?			
21.	☐ Yes		(Go to Questio	n 23)		
	_ 1 c 5		(Go to Questio	n 2 0)		
22.	. What was your source	e of info	ormation on the	HPV V	vaccine? (Tick all that	apply)
	☐ Child's school		lthcare provide		☐ Advertisement	
	□ Internet	□ Nev	-		☐ Government promo	otion
	☐ Others/none of the	above				

23.	HPV can be transmi	tted by:		
	☐ Females	☐ Males	\square Both	☐ Unsure
24.	How can HPV be tra	`	11 0	
	☐ Physical Contact	(e.g. hand shaking)		Air Droplet
	☐ Sexual contact		□ Blood	
	☐ Contact with inan	nimate objects (eg. c	chairs, tables)	
	☐ Mother-to-child			
25.	What measures coul	d be used to protect	against HPV? (T	ick all that apply)
	☐ Abstinence	☐ Condo	`	PV Vaccination
	☐ Alcohol Sanitisat	ion \square		☐ Washing with soap
	☐ Others/none of th		2	5 1
26.	HPV infection can o	occur without signs	or symptoms.	
	☐ True	☐ False	☐ Unsure	
27	HPV can cause harn	n to famalas anly w	zhila malas xvauld	not be offeeted
21.	☐ True	☐ False	☐ Unsure	not be affected.
	□ True	□ Talse	□ Olisule	
28.	HPV can cause sexu	ally transmitted dis	eases (STDs).	
	☐ True	☐ False (Go to C	Question 30)	☐ Unsure (Go to
	Question 30)			
29.	What sexually transi	mitted diseases (ST)	Ds) can be caused	by HPV? (Tick all that
	apply)			
	☐ Genital Warts			
	☐ Gonorrhea			
	☐ Syphilis			
	☐ Acquired immuno	odeficiency syndron	ne (AIDS)	
	☐ Chlamydia			
30.	HPV can cause canc	eers.		
	☐ True	☐ False (Go to C	Duestion 32)	☐ Unsure (Go to
	Question 32)	(223)	,	(
	•			
31.	What types of cance	rs can be caused by	HPV? (Tick all tl	nat apply)
	☐ Cervical Cancer			

	☐ Anal Cancer					
	☐ Penile Cancer					
	☐ Vulvar Cancer					
	☐ Vaginal Cancer					
	☐ Head and Neck c	ancer				
	\square All of the above					
32	2. The purpose of a page.	p smear is to de	tect which of the	ne below: (Tick	all that apply)	
	☐ Cervical cancer					
	\square HPV					
	☐ Sexually transmit	tted diseases				
	\square All of the above					
33	3. There are many sub	types of HPV.				
	☐ True	☐ False	□ Un	sure		
34	If a patient has alrea	dy been infecte	ed with HPV, he	e/she should sti	ll receive the H	PV
	□ True	☐ False	□ Un	ncure		
	□ True	□ 1 aise		isuic		
35	5. My child can be infe	ected with HPV	from receiving	g the HPV vacc	ine.	
	☐ True	☐ False	□ Un	sure		
36	6. HPV infection can b	be treated with a	antibiotics.			
	☐ True	☐ False	□ Un	isure		
37	7. HPV infection can b	oe cured.				
	☐ True	☐ False	□ Un	sure		
Section	on 3: Attitude toward	ds HPV Vaccin	ation			
	3. I believe it is better			V vaccine before	re his/ her sexua	al
	debut of becoming s	_				
	☐ Strongly agree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly	
	disagree	C		C		
39	O. At what age do you	think a child sh	ould receive th	e HPV vaccina	tion.	
	□ Never	□<9	□ 9–10	□ 11–12	□ 13–14	

	□ 15–16	□ 17–18	□ >18		
40.	The HPV vaccine is to ☐ Strongly agree disagree	oo expensive. ☐ Agree	□ Neutral	□ Disagree	□ Strongly
41.	HPV infection is very ☐ Strongly agree disagree	common. □ Agree	□ Neutral	□ Disagree	☐ Strongly
42.	I believe my child is a	nt risk of HPV i	infection in the	future.	
	☐ Strongly agree disagree	☐ Agree	☐ Neutral	□ Disagree	☐ Strongly
43.	I believe the HPV vac	ccine is safe for	my child.		
	☐ Strongly agree disagree	☐ Agree	☐ Neutral	□ Disagree	☐ Strongly
44.	I believe my child car	n be protected f	rom HPV with	out HPV vaccir	nation.
	☐ Strongly agree disagree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly
45.	I believe the HPV vac daughter/son.	ccine is effectiv	e in preventing	HPV infection	for my
	☐ Strongly agree disagree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly
46.	I think HPV vaccinati ☐ Strongly agree disagree	on will encoura ☐ Agree		engage in early ☐ Disagree	
47.	I think HPV vaccinati ☐ Strongly agree disagree	on will encoura ☐ Agree		ot to use protect ☐ Disagree	tion during sex. ☐ Strongly
48.	I think people will be ☐ Strongly agree disagree	labelled as pro ☐ Agree	miscuous for h ☐ Neutral	aving been infe ☐ Disagree	cted with HPV. ☐ Strongly

49	9. I am worried about		· -		
	-	the HPV vacci	ne. (Skipped if	parent answer	s "Yes" to Question
	18)	□ ^ - · · · ·	□ N 1	П D:	□ C4
	☐ Strongly agree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly
	disagree				
50	0. I am worried that th	e HPV vaccine	e might affect ac	dolescent develo	opment. (Skipped if
	parent answers "Y	es" to Questic	on 18)		
	☐ Strongly agree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly
	disagree				
5	1. I am worried that th	e HPV vaccine	e might have un	known long-teri	n side effects.
	(Skipped if parent		•	_	
	☐ Strongly agree		☐ Neutral		☐ Strongly
	disagree				
52	2. I think it is difficult	to explain the	reason for HPV	vaccination to	the child.
	☐ Strongly agree	☐ Agree	☐ Neutral	☐ Disagree	☐ Strongly
	disagree				
Section	on 4: Acceptability o	f HPV Vaccin	<u>ation</u>		
53	3. Will you accept you	r child to rece	ive the HPV vac	ecine?	
	☐ Yes (Go to Ques	tion 54)	□ No (Go to	Question 55)	
54	4. What are the reason	s for your deci	sion? (Tick all t	that apply)	
	☐ I am worried my	child(ren) gett	ing HPV infecti	ion	
	☐ I am worried my	child(ren) gett	ing genital canc	er	
	☐ I am worried my	child(ren) gett	ing genital wart	rs .	
	☐ I am convinced o	f the efficacy i	in preventing H	PV infection	
	☐ My religion or cu	ılture supports	vaccination		
	☐ Recommended by	y health author	rities		
	☐ Recommended by	y schools			
	☐ Recommended by	y family, frien	ds or relatives		
	☐ Recommended by	y healthcare pr	rofessionals		
	☐ Promoted by adv	ertisement			
	□ Others/none of th	e ahove			

55.	. What are the reasons for your decision? (Tick all that apply)
	☐ I am against all vaccinations
	☐ My child doesn't like vaccinations
	☐ The HPV vaccine can cause adverse effect / is not safe
	(Skipped if parent answers "Yes" to Question 18)
	☐ The HPV vaccine does not give full protection against HPV infection
	(Skipped if parent answers "Yes" to Question 18)
	☐ The HPV vaccine will encourage early sexual activity or unprotected sex
	☐ Worried others might think my child is sexually active
	☐ The HPV vaccine is not necessary for my child (please select all that apply from
below	if this option is selected)
	☐ HPV will not affect males (only for parent of male student)
	☐ It is too early to think about preventing cancer
	☐ The HPV vaccine is too expensive
	☐ Not recommended by family, friends or relatives
	☐ Not recommended by schools
	☐ Not recommended by healthcare professionals
	☐ Not enough information about the HPV vaccine provided to me
	☐ My child would need to be vaccinated multiple times
	☐ Difficulty in finding a provider or clinic that has the HPV vaccine available
	☐ Others/none of the above
56.	. Will you accept your child to take the HPV vaccine if it were subsidised under the
	Hong Kong Childhood Immunisation Programme (HKCIP) by the Hong Kong SAR
	Government?
	☐ Yes (Go to question 57) ☐ No (End of Survey)
57.	. What is the reason for your decision? (Tick all that applies)
	☐ The cost is covered by the government
	☐ It will be provided at school
	☐ It is included in the HKCIP
	☐ I am worried my child(ren) getting HPV infection
	☐ I am worried my child(ren) getting genital cancer
	☐ I am worried my child(ren) getting genital warts
	☐ I am convinced of the efficacy in preventing HPV infection
	☐ My religion or culture supports vaccination
	☐ Recommended by schools

☐ Recommended by family, friends or relatives
☐ Recommended by healthcare professionals
☐ Promoted by advertisement
☐ Others/none of the above

This is the end of the survey. Thank you for your participation.

Appendix 2. Chinese version of the survey

2021年香港小學生家長對人類乳頭瘤病毒(HPV)疫苗接受程度的影響因素

第一部分:基本資料

1.	你的性別是何 口男 口女	十麼?			
2.	你的年齡是付□≤30		□36–40	□41–45	□> 45
3.	你的婚姻狀》 □單身	,	口分居/離異/	喪偶	
4.	你達到的最高 □小學以下 □小學 □中學 □非學位高等 □學士學位 □碩士/博士	高學歷是甚麼 ' 穿教育	?		
5.	你回口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口口	全 文和管理 了 了 家和保養 类和林業			

6.	你的居所位	於哪一區	三?		
	口中西區				
	□東區				
	□南區				
	□灣仔區				
	□九龍城區				
	□觀塘區				
	□深水埗區				
	□離島區				
	□油尖旺區				
	□黄大仙區				
	□葵青區				
	口北區				
	□西貢區				
	口沙田區				
	□荃灣區				
	口大埔區				
	口屯門區				
	口元朗區				
	# # .				
7.	你的家庭每		是多少?	1	
	□<港幣 \$1	•	000		
	□港幣 \$10,				
	□港幣 \$20,		-		
	□港幣 \$40,		-		
	□港幣 \$60,		,999		
	□>港幣 \$8	0,000			
8.	你有定期接	插季 節/	上海咸泥	c	
0.			口沒有		□不確定
	— / 1		— <i>(</i> ,),		
9.	你曾接受 H	PV 疫苗	注射嗎	?	
	□是	□否		□不確定	
10.	(只限女性回]答) 你曾	曾接受子	宫頸抹片(柏	氏抹片)檢查嗎?
	□是	□否		□不確定	

	□1	□2	□3	<u> </u>	3	
	 你有多於一個 填寫以下部分		 讀小學四年級			
12	2. 你孩子的性 口男 口女					
13	3. 你的孩子就口官立小學口資助小學	<u>.</u> □₹	型是甚麼? 公立學校 直接資助計劃	小學(直資	資學校)	
14	4. 你的孩子的 口中西區 口九龍城區 口油尖旺區 口西貢區 口屯門區	<u>.</u>	一區? □東區 □觀塘區 □黃大仙 □沙田區 □元朗區	ILL ·	□南區 □深水埗區 □葵青區 □荃灣區	□灣仔區 □離島區 □北區 □大埔區
1:	5. 你的孩子正 □小四		年級? 口小六			
10	6. 你的孩子有 □有		資助的香港兒 沒有		接種計劃所建議的疫 確定	疫苗嗎?
1′	7. 你的孩子有 口有		節性流感疫苗 沒有	•	確定	
18	8. 你的孩子曾 □是			〔20題〕□	不確定(請前往第	20題)
19	9. 你孩子的 F □是	HPV 疫苗是透 □?			計劃注射的嗎?	
20	0. 你會與孩子 □會		防性傳染病的 下會		確定	

第二部分:有關HPV及其疫苗的認知

21.	你有聽說過 HPV 疫	苗嗎?				
	□有	□沒有	(請前往第2	3題)		
22.	你從甚麼渠道接收有 口孩子的學校 口互聯網 口其他/以上皆不是	□醫護	人員	口廣告	, ,	
23	HPV 可以透過以下性	生別(重播	: :			
25.	口女性 口男性]不確定	
24.	以下哪一些選項為 F 「身體接觸(例如握 「性接觸」 「與物件接觸(例如 「母嬰傳播	手)	□空氣傳播/ □血液傳播		, , ,	
25.	以下哪些措施能夠預 □性禁慾 □酒精消毒 □其他/以上皆不是	1			〕接種HPV疫苗	
26.	感染 HPV 未必會出 □正確		三 狀。	口不確定	7	
27.	HPV 只會損害女性份□正確	建康,男 □錯誤	性則不受影響	響。 □不確定		
28.	HPV 可以引致性傳導□正確 題)	•	(請前往第30	0題)	口不確定	(請前往第30
29.	HPV 可引起以下哪些□生殖器疣□淋病	些性 傳染	病?(可選多	多於一項))	

	□梅毒 □後天免疫力缺乏症 □衣原體感染	三(愛滋病)	
30.	HPV可以引致癌症		
	□正確	□ 錯誤(請前往第3	2題) □不確定(請前往第32題)
31.	HPV 可以引起哪些類□子宮頸癌□肛門癌□陰莖癌□外陰癌□陰道癌□頭頸癌□以上皆是	質型的癌症?(可選多	多於一項)
32.	子宮頸抹片(柏氏抹) □子宮頸癌 □HPV □性傳染病 □以上皆是	号)檢查的目的是檢測	:(可選多於一項)
33.	HPV 有多種類型。 □正確	□錯誤	□不確定
34.	如果患者已經感染 F □正確	HPV,他/她仍應該接 □錯誤	種 HPV 疫苗。 □不確定
35.	接種 HPV 疫苗可導: □正確	致 HPV 的感染。 □錯誤	□不確定
36.	抗生素能夠治療 HP □正確	V 的感染。 □錯誤	□不確定
37.	HPV 的感染可被根泡 □正確	台。 □錯誤	□不確定

第三部分:對HPV疫苗接種的態度

38.	. 我認為我的孩子應在首次性行為前接種 HPV 疫苗。					
	口非常同意	□同意	口中立	□不同意	□非常不同意	
39.	你認為你的孩	该子應該在多少)歲接種 HPV	疫苗?		
	□永不			$\Box 11-12$	□13-14	
	□15-16	□17-18	□> 18			
40.	HPV 疫苗太貞					
	口非常同意		口中立	□不同意	□非常不同意	
41.	HPV 感染很音	 等遍。				
	□非常同意	□同意	口中立	□不同意	□非常不同意	
40	イレンコ と イレンとご		*D* * * * * * * * * * * * * * * * * * *			
42.		该子將有感染 F			口化类プロ本	
	□非吊问思	口门思	$\Box \Box \Box \Box$	口个问思	口非常不同意	
43.	我認為 HPV	疫苗是安全的	0			
		口同意		□不同意	□非常不同意	
	71 1141 476	1 472.	,	1 1 4/2.	71 114 1 1 473.	
44.	我相信我的孩	该子即使沒有沒	上射 HPV 疫苗	,也能夠預防	HPV °	
	口非常同意	□同意	口中立	□不同意	□非常不同意	
45.		疫苗有效預防				
	□非常同意	□同意	口中立	□不同意	□非常不同意	
16	412-37 为 LID V/ >	疫苗接種會鼓	番441:6577.77.344	日光分析分为		
40.					□非常不同意	
	口作市門总		$\Box + \pi$		口作用行门总	
47.	我認為 HPV	疫苗接種會鼓	勵我的孩子進	行「不安全性	行為」。	
					□非常不同意	
48.	我認為感染 I	HPV的人會被	標籤為性濫交	0		
	□非常同意	□同意	口中立	□不同意	□非常不同意	
_	- حدد دو سوال ور	→ . t. \	and the second	entra de la compansión de		
49.				答) 找擔心 HP	V疫苗的短期副作用(如	
		·接種部位紅腫			口化类プロ交	
	山非吊问意	山川恵	\Box 十 \overline{T}	山个川恵	□非常不同意	

50.	. (如果你的孩	子未曾接種I	HPV 疫苗,討	青回答) 我擔心 HI	PV 疫苗可能會影響青少年	
	發育。			口ズ回辛	口北海太田辛	
	口非吊門思	口问思	口十77.	口不同意	口非吊个问息	
51.	. (如果你的孩	子未曾接種 I	HPV 疫苗,語	青回答) 我擔心該	HPV 疫苗可能具有未知的	
	長期副作用	0				
	口非常同意	□同意	口中立	口不同意	□非常不同意	
52.	. 我認為自己鄭	離以向孩子解	釋接種 HPV	<i>V</i> 疫苗的原因。		
	口非常同意	□同意	口中立	口不同意	口非常不同意	
<i>\$</i> \$ m	77 5 • 30 Leeun ers	ι≟·++ዹ⊢₄↔ ᡪᠭᡘᡸᡕ	i pie			
<u> </u>	『分:對HPV _》	<u>投苗的接受格</u>	<u>.</u> <u>.</u>			
53.	. 你會接受你的	的孩子接種 H	PV 疫苗嗎'	?		
	□會(請前行	主第54題)	□不會(請前往第55題)		
54	接受孩子接待	活 HPV 疾苗的	为原因是任何	麼?(可選多於一	-佰)	
54.	· 1女文孩 1 1女1			么。(与 <i>医少</i> 欣	·只 /	
		,	痛 症			
		· 思工生殖器 子患上生殖器	<i>,</i> — <i>,</i> —			
			-			
	□我相信疫苗預防HPV感染的效用 □我的宗教或文化支持接種疫苗					
	□找的示教或文化文持接性疫田 □衛生部門建議接種					
	□ 衛生部门建議接種 □ 學校建議接種					
	□家人、親友	—				
	口醫護人員類					
	□廣告推廣№					
	口其他/以上	~~~~				
		H T AL				
55.	. 不接受孩子技	妾種 HPV 疫苗	苗的原因是何	十麼?(可選多於	:一項)	
	口我反對所有	有疫苗的接種				
	口我的孩子	下喜歡接種疫	+ <i>t</i> -			
	□HPV疫苗□	可能引起不良	反應/不安全	(只向孩子曾接種	重HPV疫苗的家長顯示此	
選項)						
	□HPV疫苗▽	下能完全預防	HPV感染 (5	只向孩子曾接種H	PV疫苗的家長顯示此選	
項)						
	□接種HPV羽	变苗會鼓勵過.	早發生性行	為或不安全性行為	<u> </u>	

口擔心別人會認為我的孩子已進行過性行為
□HPV疫苗並非必要(如選擇此選項,請從下列選擇原因)
□HPV不會影響男性 (只向孩子為男性的家長顯示此選項)
口沒有預防癌症的迫切性
□其他/以上皆不是
□HPV疫苗過於昂貴
□家人、親友沒有建議接種
□學校沒有建議接種
□醫護人員沒有建議接種
□沒有得到足夠資訊
口我的孩子需要進行多次疫苗注射
□難以找到提供HPV疫苗接種的地方或診所
□其他/以上皆不是
56. 如獲得香港特區政府「香港兒童免疫接種計劃」的資助,你會接受你的孩子接
種 HPV 疫苗嗎?
□會 (請前往第57題) □不會 (問卷結束)
57. 接受孩子接種 HPV 疫苗的原因是什麼?(可選多於一項)
□費用得到政府資助
□到校接種疫苗的服務很方便
□HPV疫苗被納入香港兒童免疫接種計劃
口我擔心孩子感染HPV
□我擔心孩子患上生殖器癌症
□我擔心孩子患上生殖器疣
□我相信疫苗預防HPV感染的效用
□我的宗教或文化支持接種疫苗
□學校建議接種
□家人、親友建議接種
□醫護人員建議接種
口廣告推廣疫苗接種
口其他/以上皆不是

問卷完結。感謝您的參與。

Appendix 3. Description of the survey sections

Section 1: Socio-demographic characteristics

The survey collected data regarding participants' socio-demographic characteristics, namely, sex, age-group, marital status, education level, occupation, district of residence, and income level. Other variables included the number of children in Primary 4 to 6, whether they had discussed sexually transmitted diseases with children, their receipt (or non-receipt) of seasonal influenza vaccines and human papillomavirus (HPV) vaccine, and (for female respondents only) their completion (or non-completion) of a Pap smear examination. Information was also collected regarding the child's sex, school type, school district, school grade, history of vaccination under the Hong Kong Childhood Immunisation Programme, and receipt (or non-receipt) of seasonal influenza vaccines and HPV vaccine. If a participant had multiple children in Primary 4 to 6, only the oldest child's information was collected.

Section 2: Awareness and knowledge of human papillomavirus and the vaccine

Participants were asked about their awareness of the HPV vaccine and sources of information about it. Knowledge of HPV and the HPV vaccine was assessed via 14 questions, where each correct answer received one point. A maximum of 20 points was possible because some questions had multiple correct answers; the total score was used for analysis.

Section 3: Attitudes towards vaccination

The survey included 15 statements to measure participants' attitudes towards HPV vaccination, covering concerns about HPV infection, vaccine cost, safety, efficacy, and impact on their child's sexual activity. Participants rated their agreement on a five-item Likert scale. These statements addressed factors in the Health Belief Model, namely, perceived susceptibility, perceived severity, perceived benefits, and perceived barriers.

Section 4: Acceptance of vaccination

Participants were asked about their acceptance of HPV vaccination for their child, followed by a question to determine reasons for accepting or declining the vaccine. Multiple reasons were allowed, and options were provided. Participants were also asked if they would accept the vaccine if it were subsidised under the Hong Kong Childhood Immunisation Programme. Those who answered 'yes' were asked to select their reasons again.

Reference

1. Jones CL, Jensen JD, Scherr CL, Brown NR, Christy K, Weaver J. The Health Belief Model as an explanatory framework in communication research: exploring parallel, serial, and moderated mediation. Health Comm 2015;30:566-76.