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Additional file 13 — Tables S9 and S10, and Figure S5
2Incremental cost-effectiveness ratios.
An alternative to calculating the threshold dose price is to set the vaccine dose price to a fixed value, and then
³ calculate the incremental cost of each additional QALY for a given vaccination strategy (the incremental

 $_4$ cost-effectiveness ratio). These are presented for a range of dose prices (covering the list price for the quadrivalent vaccine of £87.50 per dose), using each of the three vaccines, and vaccinating either girls only or girls and boys.

 $^5\mathrm{The}$ results are shown in Tables S9 and S10, and Fig S5.

6	Strategy	£0	£20	£40	£60	£80	£100
7	Girls,	strategy	strategy	1943	15930	29916	43903
	bivalent	dominant	dominant	1945			
8	Girls,	strategy	strategy	strategy	1364	8877	16390
9	quadrivalent	dominant	dominant	dominant	1304	0011	10390
	Girls,	strategy	strategy	strategy	strategy	6655	13668
10	nonavalent	dominant	dominant	dominant	dominant	0033	13000
11	Girls & boys,	strategy	109	26499	52890	79280	105671
	bivalent	dominant	109				
12	Girls & boys,	strategy	strategy	7007	21152	35297	49442
13	quadrivalent	dominant	dominant	7007	21132	33291	49442
	Girls & boys,	strategy	strategy	4997	18195	31394	44592
14	nonavalent	dominant	dominant	4391	10193	31394	44392

Table S9 Incremental cost-effectiveness ratios for alternative vaccination strategies at alternative assumed vaccine dose prices (minus the £10 administration fee assumed in the analysis - hence the first column represents paying the administration fee plus zero for each vaccine dose). Evaluated strategies are relative to halted vaccination. Note that "strategy dominant" means that the vaccination strategy is on average both cheaper and more effective.

Strategy	£0	£20	£40	£60	£80	£100
Girls & boys,	strategy	204344	439225	674106	908987	1143868
bivalent	dominant					
Girls & boys,	strategy	98425	219913	341401	462889	584377
quadrivalent	dominant					
Girls & boys,	strategy	91142	203735	316327	428920	541513
nonavalent	dominant					

Table S10 Incremental cost-effectiveness ratios for alternative vaccination strategies at alternative assumed vaccine dose prices (minus the £10 administration fee assumed in the analysis). Evaluated strategies are relative to vaccinating girls only.

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