



Figure S1. HPV vaccination program cost of CECOLIN, CERVARIX and GARDASIL-4, during all the analysis period, 2022 – 2031, including catch-up campaign.

Table S1. Deterministic scenarios showing the cost (US\$) per DALY averted of vaccination with Gavi support, using CECOLIN, CERVARIX and GARDASIL-4, compared to no vaccine.

Vaccine	Scenario	Government Perspective
CECOLIN	Central inputs (US\$0.20 per dose)	1.9
	Vaccine price = 25% lower (US\$ 2.18 per dose)	20
	Vaccine price = 50% lower (US\$ 1.45 per dose)	13
	Vaccine price = Highest (US\$ 2.9 per dose)	26
	Schedule = 1 dose (efficacy = 2 doses) without cross protection	0
	Schedule = 1 dose (efficacy = 2 doses) with cross protection	0
	Lower vaccine coverage	14
	Higher vaccine coverage	26
	Discount rate = 10%	448
	Disease burden rates = Low	14
	Disease burden rates = High	0
	Healthcare costs = Low	10
	Healthcare costs = High	0
	No Catch-up campaign	2
CERVARIX	Central inputs (US\$0.20 per dose)	0
	Vaccine price = 25% lower (US\$ 1.32 per dose)	1
	Vaccine price = 50% lower (US\$ 2.64 per dose)	11
	Vaccine price = Highest (US\$ 5.18 per dose)	27
	Schedule = 1 dose (efficacy = 2 doses) without cross protection	0
	Schedule = 1 dose (efficacy = 2 doses) with cross protection	0
	Lower vaccine coverage	10
	Higher vaccine coverage	13
	Discount rate = 10%	544

	Disease burden rates = Low	25
	Disease burden rates = High	0
	Healthcare costs = Low	1
	Healthcare costs = High	0
	No Catch-up campaign	18
	Central inputs (US\$0.20 per dose)	2.8
	Vaccine price = 25% lower (US\$ 1.13 per dose)	11
	Vaccine price = 50% lower (US\$ 2.25 per dose)	21
	Vaccine price = Highest (US\$ 4.50 per dose)	42
	Schedule = 1 dose (efficacy = 2 doses) without cross protection	0
	Schedule = 1 dose (efficacy = 2 doses) with cross protection	0
	Lower vaccine coverage	3
	Higher vaccine coverage	4
	Discount rate = 10%	459
	Disease burden rates = Low	15
	Disease burden rates = High	0
	Healthcare costs = Low	11
	Healthcare costs = High	0
	No Catch-up campaign	3
GARDASIL-4		

Table S2. Deterministic scenarios showing the cost (US\$) per DALY averted of vaccination without Gavi support, using CECOLIN, CERVARIX and GARDASIL-4, compared to no vaccine.

Vaccine	Scenario	Government Perspective
	Central inputs (US\$2.90 per dose)	26
	Vaccine price = 25% lower (US\$ 2.18 per dose)	20
	Vaccine price = 50% lower (US\$ 1.45 per dose)	13
	Schedule = 1 dose (efficacy = 2 doses) Without Cross Protection	0
	Schedule = 1 dose (efficacy = 2 doses) with Cross Protection	0
	Lower vaccine coverage	25
	Higher vaccine coverage	29
	Discount rate = 10%	729
	Disease burden rates = Low	44
	Disease burden rates = High	14
	Healthcare costs = Low	34
	Healthcare costs = High	18
	NO Catch-up campaign	35
CECOLIN		
	Central inputs (US\$5.18 per dose)	32
	Vaccine price = 25% lower (US\$ 1.32 per dose)	1
	Vaccine price = 50% lower (US\$ 2.64 per dose)	11
	Schedule = 1 dose (efficacy = 2 doses) without Cross Protection	30
	Schedule = 1 dose (efficacy = 2 doses) with Cross Protection	13
	Lower vaccine coverage	27
	Higher vaccine coverage	32
	Discount rate = 10%	753
	Disease burden rates = Low	48
	Disease burden rates = High	17
	Healthcare costs = Low	51
	Healthcare costs = High	35
	NO Catch-up campaign	43
CERVARIX		
	Central inputs (US\$4.50 per dose)	42.0
	Vaccine price = 25% lower (US\$ 1.13 per dose)	11
	Vaccine price = 50% lower (US\$ 2.25 per dose)	21
	Schedule = 1 dose (efficacy = 2 doses) without Cross Protection	24
	Schedule = 1 dose (efficacy = 2 doses) with Cross Protection	23
	Lower vaccine coverage	40
	Higher vaccine coverage	45
	Discount rate = 10%	915
	Disease burden rates = Low	64
GARDASIL-4		

Disease burden rates = High	28
Healthcare costs = Low	50
Healthcare costs = High	34
NO Catch-up campaign	57