

Appendix A. Papillomavirus Rapid Interface for Modelling and Economics (PRIME) tool country-level inputs for India, Tanzania, and the United Kingdom.

Country	India	Tanzania	United Kingdom
Birth cohort size (female)	11,719,276	395,953	395,953
Cohort size at vaccination age (female)	11,973,174	338,891	338,891
Coverage (all doses)	80%	80%	80%
Vaccine efficacy vs HPV 16/18	100%	100%	100%
Target age group	12	12	12
DALYs for cancer diagnosis	0.08	0.08	0.08
DALYs for non-terminal cancer sequelae (per year)	0.17	0.17	0.04
DALYs for terminal cancer	0.78	0.78	0.78
Discount rate	3.0%	3.0%	3.0%
Proportion of cervical cancer cases that are due to HPV 16/18	81.9%	74.3%	76.6%

Appendix B. Cervical cancer incidence and mortality and all-cause mortality by age for India, Tanzania, and the United Kingdom.

Age	India			Tanzania			United Kingdom		
	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality
0	0	0	0.0527	0	0	0.06974	0	0	0.00979125
1	0	0	0.00511	0	0	0.01167	0	0	0.0003565
2	0	0	0.00511	0	0	0.01167	0	0	0.0003565
3	0	0	0.00511	0	0	0.01167	0	0	0.0003565
4	0	0	0.00511	0	0	0.01167	0	0	0.0003565
5	0	0	0.00143	0	0	0.00196	0	0	0.000179
6	0	0	0.00143	0	0	0.00196	0	0	0.000179
7	0	0	0.00143	0	0	0.00196	0	0	0.000179
8	0	0	0.00143	0	0	0.00196	0	0	0.000179
9	0	0	0.00143	0	0	0.00196	0	0	0.000179
10	0	0	0.00102	0	0	0.00139	0	0	0.00018075
11	0	0	0.00102	0	0	0.00139	0	0	0.00018075
12	0	0	0.00102	0	0	0.00139	0	0	0.00018075
13	0	0	0.00102	0	0	0.00139	0	0	0.00018075
14	0	0	0.00102	0	0	0.00139	0	0	0.00018075
15	0.000074	0.000025	0.00158	0.00014	0.000054	0.00116	0.000106	0.00001	0.00030775
16	0.000074	0.000025	0.00158	0.00014	0.000054	0.00116	0.000106	0.00001	0.00030775
17	0.000074	0.000025	0.00158	0.00014	0.000054	0.00116	0.000106	0.00001	0.00030775
18	0.000074	0.000025	0.00158	0.00014	0.000054	0.00116	0.000106	0.00001	0.00030775
19	0.000074	0.000025	0.00158	0.00014	0.000054	0.00116	0.000106	0.00001	0.00030775
20	0.000074	0.000025	0.00212	0.00014	0.000054	0.00292	0.000106	0.00001	0.00042025
21	0.000074	0.000025	0.00212	0.00014	0.000054	0.00292	0.000106	0.00001	0.00042025
22	0.000074	0.000025	0.00212	0.00014	0.000054	0.00292	0.000106	0.00001	0.00042025
23	0.000074	0.000025	0.00212	0.00014	0.000054	0.00292	0.000106	0.00001	0.00042025
24	0.000074	0.000025	0.00212	0.00014	0.000054	0.00292	0.000106	0.00001	0.00042025
25	0.000074	0.000025	0.00198	0.00014	0.000054	0.00548	0.000106	0.00001	0.00052675
26	0.000074	0.000025	0.00198	0.00014	0.000054	0.00548	0.000106	0.00001	0.00052675
27	0.000074	0.000025	0.00198	0.00014	0.000054	0.00548	0.000106	0.00001	0.00052675
28	0.000074	0.000025	0.00198	0.00014	0.000054	0.00548	0.000106	0.00001	0.00052675
29	0.000074	0.000025	0.00198	0.00014	0.000054	0.00548	0.000106	0.00001	0.00052675
30	0.000074	0.000025	0.00224	0.00014	0.000054	0.00837	0.000106	0.00001	0.0007385
31	0.000074	0.000025	0.00224	0.00014	0.000054	0.00837	0.000106	0.00001	0.0007385

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Age	India			Tanzania			United Kingdom		
	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality
32	0.000074	0.000025	0.00224	0.00014	0.000054	0.00837	0.000106	0.00001	0.0007385
33	0.000074	0.000025	0.00224	0.00014	0.000054	0.00837	0.000106	0.00001	0.0007385
34	0.000074	0.000025	0.00224	0.00014	0.000054	0.00837	0.000106	0.00001	0.0007385
35	0.000074	0.000025	0.00264	0.00014	0.000054	0.01052	0.000106	0.00001	0.001069
36	0.000074	0.000025	0.00264	0.00014	0.000054	0.01052	0.000106	0.00001	0.001069
37	0.000074	0.000025	0.00264	0.00014	0.000054	0.01052	0.000106	0.00001	0.001069
38	0.000074	0.000025	0.00264	0.00014	0.000054	0.01052	0.000106	0.00001	0.001069
39	0.000074	0.000025	0.00264	0.00014	0.000054	0.01052	0.000106	0.00001	0.001069
40	0.000419	0.000178	0.00337	0.000803	0.000347	0.01058	0.000153	0.000026	0.001622
41	0.000419	0.000178	0.00337	0.000803	0.000347	0.01058	0.000153	0.000026	0.001622
42	0.000419	0.000178	0.00337	0.000803	0.000347	0.01058	0.000153	0.000026	0.001622
43	0.000419	0.000178	0.00337	0.000803	0.000347	0.01058	0.000153	0.000026	0.001622
44	0.000419	0.000178	0.00337	0.000803	0.000347	0.01058	0.000153	0.000026	0.001622
45	0.000604	0.000281	0.00459	0.001165	0.000528	0.01023	0.00012	0.000029	0.0025685
46	0.000604	0.000281	0.00459	0.001165	0.000528	0.01023	0.00012	0.000029	0.0025685
47	0.000604	0.000281	0.00459	0.001165	0.000528	0.01023	0.00012	0.000029	0.0025685
48	0.000604	0.000281	0.00459	0.001165	0.000528	0.01023	0.00012	0.000029	0.0025685
49	0.000604	0.000281	0.00459	0.001165	0.000528	0.01023	0.00012	0.000029	0.0025685
50	0.00074	0.000361	0.00674	0.001504	0.000736	0.01103	0.000086	0.000036	0.004117
51	0.00074	0.000361	0.00674	0.001504	0.000736	0.01103	0.000086	0.000036	0.004117
52	0.00074	0.000361	0.00674	0.001504	0.000736	0.01103	0.000086	0.000036	0.004117
53	0.00074	0.000361	0.00674	0.001504	0.000736	0.01103	0.000086	0.000036	0.004117
54	0.00074	0.000361	0.00674	0.001504	0.000736	0.01103	0.000086	0.000036	0.004117
55	0.000786	0.000407	0.01164	0.001671	0.000952	0.01433	0.000076	0.000043	0.0064475
56	0.000786	0.000407	0.01164	0.001671	0.000952	0.01433	0.000076	0.000043	0.0064475
57	0.000786	0.000407	0.01164	0.001671	0.000952	0.01433	0.000076	0.000043	0.0064475
58	0.000786	0.000407	0.01164	0.001671	0.000952	0.01433	0.000076	0.000043	0.0064475
59	0.000786	0.000407	0.01164	0.001671	0.000952	0.01433	0.000076	0.000043	0.0064475
60	0.000735	0.00045	0.02103	0.00182	0.001206	0.01951	0.000073	0.00005	0.00973275
61	0.000735	0.00045	0.02103	0.00182	0.001206	0.01951	0.000073	0.00005	0.00973275
62	0.000735	0.00045	0.02103	0.00182	0.001206	0.01951	0.000073	0.00005	0.00973275
63	0.000735	0.00045	0.02103	0.00182	0.001206	0.01951	0.000073	0.00005	0.00973275
64	0.000735	0.00045	0.02103	0.00182	0.001206	0.01951	0.000073	0.00005	0.00973275

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Age	India			Tanzania			United Kingdom		
	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality
65	0.000634	0.000492	0.03234	0.002023	0.001512	0.03168	0.000074	0.000057	0.01595025
66	0.000634	0.000492	0.03234	0.002023	0.001512	0.03168	0.000074	0.000057	0.01595025
67	0.000634	0.000492	0.03234	0.002023	0.001512	0.03168	0.000074	0.000057	0.01595025
68	0.000634	0.000492	0.03234	0.002023	0.001512	0.03168	0.000074	0.000057	0.01595025
69	0.000634	0.000492	0.03234	0.002023	0.001512	0.03168	0.000074	0.000057	0.01595025
70	0.00047	0.000512	0.05607	0.002239	0.001864	0.0528	0.000077	0.000069	0.0266435
71	0.00047	0.000512	0.05607	0.002239	0.001864	0.0528	0.000077	0.000069	0.0266435
72	0.00047	0.000512	0.05607	0.002239	0.001864	0.0528	0.000077	0.000069	0.0266435
73	0.00047	0.000512	0.05607	0.002239	0.001864	0.0528	0.000077	0.000069	0.0266435
74	0.00047	0.000512	0.05607	0.002239	0.001864	0.0528	0.000077	0.000069	0.0266435
75	0.000247	0.000513	0.0787	0.002494	0.002267	0.08688	0.000093	0.000104	0.04687725
76	0.000247	0.000513	0.0787	0.002494	0.002267	0.08688	0.000093	0.000104	0.04687725
77	0.000247	0.000513	0.0787	0.002494	0.002267	0.08688	0.000093	0.000104	0.04687725
78	0.000247	0.000513	0.0787	0.002494	0.002267	0.08688	0.000093	0.000104	0.04687725
79	0.000247	0.000513	0.0787	0.002494	0.002267	0.08688	0.000093	0.000104	0.04687725
80	0.000247	0.000513	0.12099	0.002494	0.002267	0.13693	0.000093	0.000104	0.08301425
81	0.000247	0.000513	0.12099	0.002494	0.002267	0.13693	0.000093	0.000104	0.08301425
82	0.000247	0.000513	0.12099	0.002494	0.002267	0.13693	0.000093	0.000104	0.08301425
83	0.000247	0.000513	0.12099	0.002494	0.002267	0.13693	0.000093	0.000104	0.08301425
84	0.000247	0.000513	0.12099	0.002494	0.002267	0.13693	0.000093	0.000104	0.08301425
85	0.000247	0.000513	0.18182	0.002494	0.002267	0.20789	0.000093	0.000104	0.14132575
86	0.000247	0.000513	0.18182	0.002494	0.002267	0.20789	0.000093	0.000104	0.14132575
87	0.000247	0.000513	0.18182	0.002494	0.002267	0.20789	0.000093	0.000104	0.14132575
88	0.000247	0.000513	0.18182	0.002494	0.002267	0.20789	0.000093	0.000104	0.14132575
89	0.000247	0.000513	0.18182	0.002494	0.002267	0.20789	0.000093	0.000104	0.14132575
90	0.000247	0.000513	0.2671	0.002494	0.002267	0.30365	0.000093	0.000104	0.22859225
91	0.000247	0.000513	0.2671	0.002494	0.002267	0.30365	0.000093	0.000104	0.22859225
92	0.000247	0.000513	0.2671	0.002494	0.002267	0.30365	0.000093	0.000104	0.22859225
93	0.000247	0.000513	0.2671	0.002494	0.002267	0.30365	0.000093	0.000104	0.22859225
94	0.000247	0.000513	0.2671	0.002494	0.002267	0.30365	0.000093	0.000104	0.22859225
95	0.000247	0.000513	0.38355	0.002494	0.002267	0.42633	0.000093	0.000104	0.3492875
96	0.000247	0.000513	0.38355	0.002494	0.002267	0.42633	0.000093	0.000104	0.3492875
97	0.000247	0.000513	0.38355	0.002494	0.002267	0.42633	0.000093	0.000104	0.3492875

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Age	India			Tanzania			United Kingdom		
	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality	Cervical cancer incidence	Cervical cancer mortality	All-cause mortality
98	0.000247	0.000513	0.38355	0.002494	0.002267	0.42633	0.000093	0.000104	0.3492875
99	0.000247	0.000513	0.38355	0.002494	0.002267	0.42633	0.000093	0.000104	0.3492875
100	0.000247	0.000513	1	0.002494	0.002267	1	0.000093	0.000104	1

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4 **Appendix C. List of linkages between gender equity and health.**
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7 Maternal health →

- 8 • Women’s human capital (Albanesi & Olivetti, 2014) (40)
- 9 • Labor force participation (Albanesi & Olivetti, 2016; Bloom et al., 2009; Bloom et al.,
10 2016) (27, 41, 42)
- 11 • Fertility (Albanesi & Olivetti, 2016; Bloom et al., 2009; Bloom et al., 2016) (27, 41, 42)
- 12 • Economic productivity (Onarheim et al., 2016) (48)

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14 Life expectancy →

- 15 • Educational attainment (Jayachandran & Lleras-Muney, 2009) (45)

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17 Child health and mortality →

- 18 • Maternal gender equity (Brinda et al., 2015) (43)
- 19 • Educational attainment and/or performance (Gakidou et al., 2010; Jukes, 2005) (44, 46)

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21 Gender equity →

- 22 • Healthy life expectancy at birth (Kim & Kim, 2014) (38)
- 23 • Health of women and girls (Payne, 2015) (49)

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26 *Note:* King et al., 2018 was a review article covering multiple linkages (47).
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