

Supporting Information

S1 Table: Inclusion and exclusion criteria (PICOTS)

	Include	Priority/ Emphasize	Exclude
Population	Stakeholders involved in the adoption of single-dose HPV vaccination	- East Africa - Ethiopia, Tanzania and Uganda - Ministry of Health officials and technical advisors	- High income countries - Non- African countries
Intervention	Single-dose HPV vaccination	National programs/ implementation	- Randomized control trials - Modelling and economic evaluation studies
Comparison	Any		
Outcomes (of the review)	Determinants of adoption of single-dose HPV vaccination		
Time Frame	2000-2024		
Setting	- Facility-based - School-based - Mixed delivery	National Immunization Programs	- Controlled settings - Services delivered in public or private facilities only
Other [Study design]	- Quantitative OR - Qualitative OR - Mixed-Methods - Studies and reports that highlight determinants of single-dose adoption in East Africa	- Systematic reviews and meta-analyses - Implementation studies - Policy analysis	- Randomized control trials - Modelling and economic evaluation studies

PICOTS: P- Population, I – Intervention, C- Comparison, O – Outcome, T- Time frame, S – Setting

S2 Table: Search strategy and terms

We identified relevant documents by searching PubMed, CINAHL Complete, African Journal Online, Global Index Medicus, ProQuest, Academic search complete, Google Scholar and grey literature from key evidence generating institutions (WHO, JSI, Jhpiego, PATH) as well as media and press releases from Ethiopia, Uganda and Tanzania to gather relevant literature. Additionally, we searched the Government and Ministry of Health websites of the three countries to compile important announcements and documents published by the Government. The table below summarizes details of the inclusion criteria. Search strategies were adjusted to fit different database setting and included search terms such as ['HPV vaccine' OR 'HPV vaccination'] AND ['Single-Dose Schedule' OR 'Reduced Dose Schedule'] AND ['Ethiopia' OR 'Uganda' OR 'Tanzania'].

Search Component	Search terms
Single-dose vaccination	((Single-dose OR Single dose OR One dose OR Reduced dose) AND (Immunization OR Vaccin*)) OR Vaccination schedule OR Immunization schedule
AND	
Intervention	Cervical cancer prevention OR National HPV program OR Cervical cancer eliminat* OR ((HPV OR "human papillomavirus") AND (immunization OR vaccin*)) OR "Papillomavirus Vaccines" [Mesh]
AND	
setting	East* Africa* OR "Africa, Eastern"[Mesh] OR Ethiopia* OR "Ethiopia"[Mesh] OR Tanzania* OR "Tanzania"[Mesh] OR Uganda* OR "Uganda"[Mesh])
AND	
years	2000-2024

S3 Table: Data Extraction Table from Academic and Grey Literature Sources

	Document	Country	Relevant details extracted
1	Gallagher et al., 2018 (29)	Ethiopia, Uganda and other LMICs	Characteristics of the demonstration project and vaccine introduction
2	Gallagher et al., 2018 (30)	Ethiopia, Uganda and other LMICs	- Characteristics of the demonstration project and vaccine introduction - Key relevant policy that supported initiatives to improve HPV vaccine coverage - Details on decision-making bodies for a revision of the HPV vaccination schedule - Details on the expected process for the single-dose adoption in Uganda
3	Li et al., 2022 (31)	Tanzania	Details on the HPV vaccine introduction in Tanzania

4	PATH, 2011 (32)	Uganda	• Details of the demonstration project in Uganda
5	Gallagher et al., 2017 (33)	All three countries and other LMICs	• Characteristics of the demonstration project and vaccine introduction
6	Tsu et al., 2021 (34)	All three countries and other LMICs	• Characteristics of the vaccine introduction • Context of HPV vaccination in Ethiopia
7	Mphuru et al., 2022 (35)	Tanzania	• Details on the HPV vaccine introduction in Tanzania • Process and actors involved in HPV vaccination and decision-making in Tanzania
8	WHO, 2016 (36)	Ethiopia	• Details of the demonstration project in Ethiopia
9	WHO, 2025 (37)	Ethiopia	• Details on single-dose adoption in Ethiopia • Process of single-dose adoption in Ethiopia
10	WHO, 2024 (38)	Tanzania	• Details on single-dose vaccination in Tanzania
11	WHO, 2024 (39)	Ethiopia	• Details on single-dose vaccination in Ethiopia • Process and actors involved in single-dose adoption in Ethiopia
12	Adeyanju et al., 2024 (40)	All three countries and other LMICs	• Details on the country situation after WHO recommendations on single-dose HPV vaccination were published • NITAG members' position on single-dose adoption in Tanzania
13	WHO, 2024 (41)	WHO AFRO countries	• Regional endorsement of WHO recommendations on single-dose HPV vaccination
14	Bolio et al., 2024 (42)	All three countries and other LMICs	• Actors involved in single-dose adoption and HPV vaccination in LMICs
15	JSI, 2024 (43)	All three countries and other LMICs	• Actors and decision-making pathway for single-dose adoption in selected LMICs • Details on the decision-making process
16	E-NITAG, 2023 (44)	Ethiopia	• Process for decision making in Ethiopia, details on NITAG decision from 2023
17	Ra, 2008 (45)	Uganda	• Details on the context in Uganda before the HPV vaccine introduction
18	Banura et al., 2012 (46)	Uganda	• Details on the context in Uganda before the HPV vaccine introduction • Key relevant policy that supported initiatives to improve HPV vaccine coverage
19	Wallace et al., 2017 (47)	Uganda	• Details on HPV vaccination prioritization • Actors involved in the revision of immunization related policies in Uganda • Process for a new vaccine introduction in Uganda

20	PATH, 2021 (48)	Uganda	• Details on the process for single-dose adoption in Uganda • Anticipated process for a single-dose adoption in Uganda
21	Njuguna et al., 2020 (49)	Tanzania	• Policies and guidelines that contributed to the progress in HPV vaccination in Tanzania
22	JSI, (50)	Tanzania	• Actors involved in single-dose adoption in Tanzania
23	World Cancer Research Fund (51)	All three countries	• Statistics on the burden of cervical cancer in Tanzania
24	Guillaume et al., 2024 (52)	LMICs	• Insights from regional experts on the context and details needed for a policy revision