



VIEW-hub
by IVAC

Methods



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**International Vaccine
Access Center**

VIEW-hub Data Update Process

1. Google News alerts to notify VIEW-hub team of any vaccine introductions mentioned in the press which are then verified.
2. Targeted monthly searches for new introductions or changes in introduction status.
 - Cross-check WHO resources (i.e., WHO Immunization Data portal, WHO HPV tracker, WHO malaria vaccine tracker).
 - Conduct Google search for countries that have introduced subnationally, are planning to introduce, or have not yet introduced for changes in introduction status (often yields UNICEF/Gavi press releases).

VIEW-hub Data Update Process

3. Conduct full data audits every quarter to ensure that all introductions have been included and any additional data is updated.
 - Check introduction status against quarterly WHO vaccine introduction updates.
4. Conduct annual check against WHO Immunization data portal after it is updated in July.

All sources of data are noted and are available upon request.

VIEW-hub Data Collection

- Data presented on VIEW-hub are continually updated at intervals based upon the frequency of data release or data availability.
- Data cleaning, updating, and basic data management tasks are performed by members of the VIEW-hub team at IVAC.
- Immunization colleagues internally within IVAC as well as external groups (e.g., WHO, Gavi) are consulted about new updates or for verification/confirmation of data.
- A data audit is conducted every quarter. The date the data were last verified is displayed for every country in every map on the sidebar.

VIEW-hub Data Collection

Data input	Availability/update frequency	Data source
Vaccine introductions (national or subnational introduction of Hib, Pneumococcal Conjugate, Rotavirus, Inactivated Polio, Typhoid Conjugate, Measles Containing vaccines and Measles- Rubella, Human Papillomavirus, Malaria vaccines and Respiratory Syncytial Virus Products)	Varies	Google news alerts
	Monthly	<ul style="list-style-type: none"> - WHO and Gavi resources (i.e., WHO Immunization Data portal, WHO HPV tracker (HPV only), WHO malaria vaccine tracker (malaria only)) - Ministries of health - News sources, press releases (UNICEF/Gavi)
	Quarterly	WHO Vaccine Introduction updates (internal mailing list)

VIEW-hub Data Collection

Data input/Definitions	Availability/update frequency	Data source
Vaccine updates (Gavi status, product switches, etc.)	Monthly	WHO, Gavi resources (i.e., WHO Immunization Data portal , Gavi status , WHO HPV tracker (HPV only), WHO malaria vaccine tracker (malaria only), Gavi shipment reports) News sources, press releases (UNICEF/Gavi)
Access estimates (Calculated as the number of surviving infants globally living in countries or subnational regions within countries that have introduced the vaccine)	Annually	Surviving infants - Total population and crude birth rate: Population, total. World Bank Open Data - Infant mortality rate: CME Info - child mortality estimates
National estimates of vaccine coverage (PCV, Hib, Rota, IPV, MCV Dose 1 and Dose 2)	Annually (released in July)	WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) at the Global level (https://immunizationdata.who.int/)

VIEW-hub Data Collection

Data input/Definitions	Availability/update frequency	Data source
DTP3 coverage rates	Annually	Diphtheria tetanus toxoid and Pertussis (DTP) vaccination coverage, WHO
Vaccine product characteristics	Varies	For all vaccines: <ul style="list-style-type: none">- Approval documents from FDA, EMA, DSMB and other regulatory agencies.- Manufacturer's product pamphlets.- Only vaccines that are included in the list of WHO pre-qualified vaccines

VIEW-hub Data Collection

Data input/ Definitions	Availability/update frequency	Data source
World Bank income groups	Annually	World Bank Country and Lending groups
GNI in USD (calculated by the Atlas method)	Annually	World Bank - GNI per capita, Atlas method
Birth cohort	Annually	UN, World Population Prospects (2022)