



GLOBAL IMMUNIZATION NEWS

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Please send inputs for inclusion to: nicolash@who.int*

26 November 2007

TECHNICAL INFORMATION

CAPACITY BUILDING & TRAINING

26/11/07 from Kris Natarajan, Merck:

Merck Vaccine Network - Africa (MVN-A) Expansion - MVN-A is an initiative designed to provide training for mid- to high-level immunization programme managers focused on improving immunization coverage for children.

This month, The Merck Company Foundation announced a commitment (www.merck.com/cr/docs/MVNA_Expansion_Release.pdf) to establish two new MVN-A immunization training Centers in Uganda and Zambia, and to expand its support of two existing MVN-A Centers in Kenya and Mali. All four MVN-A Centers were selected through a competitive grant application process.

For more information, please see www.merck.com/mvna or e-mail kris_natarajan@merck.com.

POLIO

26/11/07 from Oliver Rosenbauer, WHO/HQ:

Polio Eradication - Rotary International and Gates Foundation commit US\$ 200 million to eradicate polio: Successful polio eradication will be "one of the most significant public health achievements in history" says Bill Gates.

On 26 November 2007, Rotary International and the Bill and Melinda Gates Foundation announced a partnership to provide US\$200 million for the intensified push to eradicate polio. The Bill and Melinda Gates Foundation has awarded the Rotary Foundation with one of its largest-ever challenge grants of US\$100 million, which Rotary will match dollar-for-dollar over the coming three years.

An extraordinary expression of confidence that polio eradication can be rapidly completed, this announcement comes on the heels of new data released in October, showing that all four remaining polio-endemic countries (India, Nigeria, Pakistan and Afghanistan) are on track to achieve eradication.

Bill Gates, co-chair of the Bill and Melinda Gates Foundation, commented: "The extraordinary dedication of Rotary members has played a critical role in bringing polio to the brink of eradication. Eradicating polio will be one of the most significant public health accomplishments in history, and we are committed to helping reach that goal".

The exemplary leadership shown by Rotary International and Bill and Melinda Gates Foundation is a heartening response to WHO Director-General, Dr Margaret Chan's call for funds made at a stakeholder consultation on polio eradication on 28 February 2007. It is hoped that this shared commitment will inspire and challenge other donors and polio-affected countries themselves to ensure that the financial resources necessary to eradicate polio once and for all are rapidly mobilized.

The Global Polio Eradication Initiative continues to face a global funding gap of US\$245 million for 2008. Further information on this announcement, as well as the latest funding information, is available at www.polioeradication.org.

VACCINE MANAGEMENT

26/11/07 from Osman Mansoor, UNICEF:

Strengthening Cold Chain & Logistics (CCL) Systems - Immunization Partners (Gates, JSI, PATH, RotaADIP, PneumoADIP, UNICEF and WHO) met on 1 November 2007 in a meeting organized and hosted at

UNICEF in New York to start a collaboration to strengthen national cold chain and logistics (CCL) systems. National Immunization Programmes (NIPs) have an ongoing need for strong CCL systems. New vaccines will increase the demands on CCL systems. Developments in technology, global policies, national decisions on new vaccine introduction, and vaccine presentations will all impact on CCL systems.

The participants agreed on the need to work together and developed a consensus on vision, goals, and outcomes for strengthening CCL systems.

The vision is to strengthen the capacity of NIPs so that every individual benefits from vaccines of assured quality; delivered in the right amount at the right time through efficient logistics, proper vaccine management, and a well-functioning cold chain system. The goals of the partnership are to develop:

- a framework for CCL strengthening;
- indicators to monitor progress;
- methods and database to share information;
- country prioritization;
- roles for each agency.

The outcomes are to build NIP capacity to:

- define policies and procedures;
- implement and monitor;
- inventory cold chain equipment;
- manage vaccine stock.

Consensus was also reached on an initial set of global indicators to monitor progress that covered:

- Vaccine Arrival Reports
- EVSM status
- National inventory
- Forecast accuracy
- Vaccine wastage
- Storage capacity
- Emergency logistic plan

WHO and UNICEF will use existing data to develop a spreadsheet as the first step towards developing a database. The full meeting report will be available shortly on the UNICEF Web page on immunization.

PUBLICATIONS

WHO PUBLISHED DOCUMENTS

26/11/07 from Mario Conde, WHO/HQ:

Aide-Memoire for Prevention of Freeze Damage to Vaccines

An *Aide-memoire for prevention of freeze damage to vaccines* is available online under the following link:

http://whqlibdoc.who.int/hq/2007/WHO_IVB_07.09_eng.pdf

Cold chain storage is necessary to prevent damage to vaccines due to heat exposure, but keeping vaccines too cold can be just as harmful as keeping them too warm - many vaccines are damaged by freezing. WHO guidelines recommend that many liquid vaccines should not be frozen. Freezing of these vaccines results in loss of potency which can never be restored. Use of the vaccine can result in decreased effectiveness in recipients. This aide-memoire summarizes WHO guidance on prevention of vaccine freezing in a concise two-page document that can be used as a reminder of previously published material and is ideally suited as a communications tool, job-aid or learning resource.

Meeting of the WHO Task Force on Clinical Trials of Dengue Vaccines is summarized in the document WHO/IVB/07.11 and available online under:

http://whqlibdoc.who.int/hq/2007/WHO_IVB_07.11_eng.pdf

The document includes information on summaries on presentations and discussions of new data from dengue vaccine candidates in clinical development; discussions of specific measures to facilitate development and evaluation of dengue vaccine candidates, and recommendations to WHO on this subject.

GAVI-RELATED INFORMATION

CIVIL SOCIETY ORGANIZATIONS

26/11/07 from Craig Burgess, GAVI Alliance:

Proposals - The Health Systems Strengthening Independent Review Committee reviewed the first ever CSO proposal (from DR Congo) and recommended this for approval, pending clarifications to the GAVI Board.

CSO Meeting - The CSO Task Team met with the representatives from seven of the CSO pilot countries and other CSO advocacy organizations on 12-13 November 2007 to review ways of strengthening CSO governance mechanisms and review ways of providing more coherent support for countries applying for GAVI CSO support.

GAVI BOARD MEETING

26/11/07 from Ariane Manset, GAVI Alliance: The GAVI Alliance Board meetings will take place in Cape Town from 27-29 November 2007. A summary will be available after the meeting.

HEALTH SYSTEMS STRENGTHENING

26/11/07 from Craig Burgess, GAVI Alliance:

HSS Proposals - The HSS Independent Review Committee reviewed 22 proposals for HSS from 26 October to 7 November 2007. They recommended 13 HSS proposals for approval (Bhutan, Central African Republic, Ghana, Honduras, Madagascar, Malawi, Nepal, Nicaragua, Nigeria, Sierra Leone, Sri Lanka, Sudan North and Uganda) for approval by the GAVI Boards. This represents a total of \$143,307,000 potential investment.

HSS Task Team Meeting - The GAVI Health Systems Strengthening Task Team will host a meeting with six of the countries that have submitted HSS proposals from 7-9 January 2008. They will help guide many of the GAVI HSS processes for 2008, and will be joined by bilateral donor agencies and other partnerships to give their perspectives on GAVI HSS to guide the shifting focus to implementation and monitoring of the GAVI HSS window.

HIB INITIATIVE

26/11/07 from Judy Heck, The Hib Initiative, JHSPH:

Progress - In 2007, there were 26 countries that submitted applications to GAVI for co-financing support to introduce Hib vaccine. In the October round of applications, a total of 21 countries - 13 countries in Africa, three in the Eastern Mediterranean, two countries in each of South East Asia and the Western Pacific and one in Eastern Europe - submitted applications to GAVI. In 2005, there were 101 countries including 19 GAVI-eligible countries who had introduced Hib vaccine. Today, with the last round of applications, there are over 140 countries including 54 GAVI-eligible countries introducing or soon to introduce the life-saving vaccine.

Advocacy Workshop - In October, the Hib Initiative and the PneumoADIP co-hosted a workshop on advocacy for the prevention of childhood pneumonia. The three-day workshop was attended by 21 participants from eight countries in Africa. The workshop design was experiential so that participants returned to their home countries with a developed action plan that defines advocacy and communication activities. Similar workshops will be conducted in the South East Asia region in early 2008.

Research and Surveillance activities - the Hib Initiative supports studies around the world to document the impact of Hib vaccine on bacterial pneumonia and meningitis. Recently, Hib Initiative epidemiologists visited Mongolia, Mozambique, Tanzania, India, Cambodia, China, Senegal, Tunisia, Ukraine, Pakistan and Nepal to provide technical assistance and support to collaborating researchers.

REVIEW PROCESS

Next Review Dates:

PROPOSAL REVIEWS - ISS, INS, New Vaccines & Measles 2nd Dose:

First Review: The deadline for receiving applications is **8 February 2008**. The applications will be reviewed from **10-19 March 2008**.

Second Review: The deadline for receiving applications is **2 May 2008**. The applications will be reviewed from **6-15 June 2008**.

Third Review: The deadline for receiving applications is **25 September 2008**. The applications will be reviewed from **23-31 October 2008**.

HSS REVIEWS

First Review: The deadline for receiving applications is **7 March 2008**. The applications will be reviewed from **14-26 April 2008**.

Second Review: The deadline for receiving applications is **12 September 2008**. The applications will be reviewed from **3-15 October 2008**.

MONITORING REVIEW

The deadline for receiving annual progress reports is **15 May 2008**. The annual progress reports will be reviewed from **16-30 June 2008**.

COUNTRY INFORMATION¹ BY REGION

AFRO CENTRAL

REGIONAL INFORMATION

26/11/07 from Lordfred Achu, UNICEF:

African Vaccinology Course

The first African Regional Vaccinology course in English took place in Douala, Cameroon in September 2007. This workshop was organized by WHO/AFRO. During the four-day workshop, 35 EPI Managers and professors from 21 countries discussed the following issues:

- Challenges and opportunities in managing new vaccine introduction;
- Challenges and opportunities in managing immunization safety;
- Challenges of vaccinating special groups;
- Future vaccines.

This workshop was very timely for the Central African Republic (CAR) participants, as CAR looks forward to introducing Hepatitis B and Hib vaccines into routine immunization from January 2008.

Ensuring High Quality Performance of Supplementary Immunization Activities (SIAs)

A four-day workshop on "Ensuring High Quality Performance of Supplementary Immunization Activities and Child Health Days" was held in Dakar, Senegal in October 2007. This workshop was organized jointly by UNICEF and WHO/AFRO. The workshop laid special emphasis on underserved districts. Issues discussed included the following:

- Identifying underperforming districts: lessons learned and the way forward;
- District-level micro-planning to improve service delivery in underserved areas - lessons learned and the way forward;
- Monitoring of performance of activities - recommendations, tools, experiences, ways to improve;
- Validating Maternal and Neonatal Tetanus (MNT) elimination;
- Maintaining NT elimination;
- What next for MNT?

This workshop came at a time when CAR was preparing two rounds of Tetanus Toxoid Supplementary Immunization Activities for November and December 2007, targeting some 1,219,040 women of reproductive age throughout the country.

CENTRAL AFRICAN REPUBLIC

26/11/07 from Lordfred Achu, UNICEF:

National Coordination Meeting - A three-day national coordination meeting was held in Boali in October 2007, which brought together all 24 district health managers throughout the country, and programme managers from the Ministry of Health, WHO and UNICEF country offices to discuss integrated disease surveillance and response as well as routine supplementary vaccination activities, challenges and the way forward. Overall, national vaccination coverage rates as of September 2007 are encouraging, but huge disparities exist among districts and even within the same district in certain areas. It was resolved that local immunization campaigns should be organized to raise coverage rates and to give all children a chance of being protected from vaccine preventable diseases.

Measles - CAR finalized the elaboration of a national strategic plan for the control of measles in October 2007. After organizing two rounds of measles immunization campaigns in October 2005 and January/February 2006 with national coverage rates reaching more than 92%, CAR is looking forward to

¹ HSS= Health Systems Strengthening;
ICP = Inter Country Programme;
ISS = Immunization Services Support;
INS = Injection Safety Support;
NVS = New Vaccine Support;
DQA = Data Quality Audit;
DQS = Data Quality Self Assessment;
FSP = Financial Sustainability Plan;
RED = Reach Every District;
cMYP = Fully costed multi-year plan;

organizing measles catch-up campaigns in 2008. The strategic plan is one of the tools to raise funds for this activity.

Communication Plan - CAR finalized the elaboration of the implementation plan of the integrated communication plan for EPI in October 2007. The first steps of this EPI integrated communication plan were elaborated in separate workshops in July, August and September 2007.

EUROPEAN REGION

REGIONAL INFORMATION

26/11/07 from WHO/EURO:

WHO Regional Office to prepare mid-level managers training package by end of 2008

The World Health Organization (WHO) Regional Office for Europe is moving closer to finalizing a regional immunization training package for Mid-Level Managers (MLM) after a working group meeting was held in Ankara, Turkey, on 22-26 October 2007.

Twelve immunization experts from Bulgaria, Croatia, Russia and Turkey participated in the meeting, together with staff from the two organizers: The International Children's Center (ICC) in Ankara, and the Vaccine-preventable Diseases and Immunization programme of WHO/Europe.

The training package will cover various areas such as cold chain, vaccines and safe injection equipment management; immunization safety; supportive supervision; annual national immunization plans and budgets and vaccine-preventable diseases surveillance – just to mention a few. The training is being developed based on the WHO Headquarters' MLM training material, revised in June 2007. Other regions, such as WHO Regional Office for Africa, have previously done the same.

The MLM training series – first developed in 1991 - aims to provide immunization managers at the national or regional/provincial level with up-to-date technical knowledge, explain how to recognize management and technical problems and how to respond to them. This series meets the challenge of introducing new vaccines into national immunization programmes in countries that are eligible for funding from the Global Alliance for Vaccines and Immunization (GAVI), as well as other countries.

WHO/Europe will now incorporate inputs from experts. When the draft has been finalized, it will be field tested in a Member State, followed by a second inter-country training with participants from five countries.

The final training material package will be translated into Russian and Turkish, and is expected to be available for all Member States in the Region by the end of 2008.

26/11/07 from Oya Afsar, UNICEF:

Pandemic Vaccination Preparedness - As part of the joint UNICEF/WHO proposal to the Government of Japan, UNICEF CEE/CIS and WHO/EURO have been working to assess and improve national capacities to distribute pandemic influenza vaccine rapidly. A desk review was conducted in late 2006 to analyze the current capacity in all 24 countries of the region (report available on request from UNICEF CEE/CIS). This was followed by field assessments in five countries in 2007 (Bosnia & Herzegovina, Kyrgyzstan, Serbia, Turkmenistan, Ukraine) to identify priority needs especially to strengthen cold chain and logistics systems. The main findings can be summarized as:

Forecasting, procurement and licensing - Self-procuring countries usually experience budget limitations, procurement delays and irregular shipments causing vaccine stockouts. All countries can operate fast-track procedures for emergency procurement. Very few countries in the region have a functional National Regulatory Authority (NRA) to ensure vaccine quality.

Cold chain equipment - Most countries have aged equipment which needs renewal. Unreliable power supply and lack of maintenance further limit the equipment life. Substandard domestic equipment is widely used at the service delivery level. Procurement of new equipment usually relies on external funding, using opportunities like campaigns, special projects or GAVI support.

Cold storage space - Considering the pandemic vaccine, as well as the new vaccines countries may introduce (Hib, pneumococcus, rotavirus, HPV), cold storage space needs to be expanded in some countries especially at national and sub-national levels. However, several countries in the region have excess central storage capacity that could be potentially shared for emergency shipping, subject to the official agreement between the governments.

Transport - Most countries do not have a regular vaccine distribution system and means (vehicle, fuel). This complicates rapid vaccine delivery especially in emergencies like a pandemic. Some countries also have challenges with geographical accessibility.

Alternative delivery systems - Non-health or private sector has also cold storage and transport systems in all countries which can be used to increase surge capacity in emergencies.

Pandemic planning - Although all countries have developed national pandemic preparedness plans, most are lacking the operational planning to deliver pandemic vaccine.

Staff capacity - Health staff is generally adequate in number, dedicated and skillful. Additional training on cold store management and vaccine management is needed. Guidelines and job aids in the local language needs to be developed and distributed on pandemic vaccine delivery. Some countries also need assistance on electronic temperature monitoring and computerized stock management.

After the priority needs were listed with consensus between the government, UNICEF and WHO, funds were transferred to countries for immediate action. UNICEF and WHO support will concentrate on the areas listed:

- Expand the cold chain capacity in critical points to accommodate additional vaccine volumes with appropriate and functional equipment (cold rooms, refrigerators, cold boxes, vaccine carriers, thermo recorders, generators, voltage stabilizers).
- Improve cold storage and vaccine management practices by training of key staff, introducing equipment and computerized stock control, and preparation of central stores for certification (EVSM).
- Improve vaccine delivery using innovative approaches to vaccine and supplies distribution.
- Explore alternative cold storage and transport capacity in the non-health and/or private sector for routine as well as surge capacity.
- Streamline vaccine forecasting, procurement and licensing procedures.
- Develop operational plans for pandemic vaccine delivery including microplans for implementation.

Pandemic vaccination support has been very much appreciated at the country level by all partners, being tangible and immediately available. Apart from improving pandemic preparedness, the support is viewed as a valuable contribution to strengthen national immunization programmes. Coordination with Japanese Embassies/JICA Offices in countries was instrumental in streamlining the support for countries.

SOUTH EAST ASIA

REGIONAL INFORMATION

26/11/07 from Pankaj Mehta, UNICEF/ROSA:

Strengthening Routine Immunization in South Asia - UNICEF organized an update for state/province health and immunization officers on new and routine immunization issues from 12-14 September 2007 in Kolkata, India.

The participants were exposed to the many immunization related developments by speakers from WHO HQ, GAVI, Pneumo ADIP, Hib Initiative, UNICEF New York and Kathmandu Regional Office, India Medical College and UNICEF and partner agency country participants. The meeting gave participants from different countries an opportunity to exchange notes, hold discussions and share experiences. Almost all participants commented that the knowledge update has given them more confidence to better advocate for and answer questions related to technical issues on new vaccines and cold chain expansion. The presentations on multiple intervention campaigns gave participants ideas for replication in their own countries. GAVI, AMC, IFFIm, ADIP, Hib Initiative, MNTE were now understood acronyms. A CD of presentations from the meeting, as well as key reference documents was prepared instead of a meeting report, to promote a "paper-less" approach. Please contact Pankaj Mehta (pmehta@unicef.org) at the UNICEF ROSA office for a copy.

WESTERN PACIFIC

REGIONAL INFORMATION

26/11/07 from Manju Rani, WHO/WPRO:

Meeting of Regional Commission for Certification of Polio Eradication in the Western Pacific Region - the 13th annual meeting of the Regional Certification Commission will take place from 11-12 December 2007 in Manila, to review progress reports from all countries and areas in the Region detailing efforts on maintaining poliomyelitis-free status, preparedness for detection of and response to imported wild poliovirus - now in the context of the International Health Regulations (IHR) 2005 - and developments in laboratory containment of wild poliovirus infectious and potentially infectious materials. The Western Pacific Region was certified polio-free in October 2000 and concerted efforts are required to sustain resource allocation to control a disease that was last reported over 10 years ago.

Progress with lab containment activities for wild polio virus - As after the elimination of indigenous wild poliovirus in human populations, the only places that still may keep infectious materials are biomedical laboratories, each country in the Western Pacific Region has undertaken respective surveys and established national inventories of wild poliovirus infectious and potentially infectious materials. Currently, these are only being held in some laboratories in Australia, China, Japan and the Republic of Korea. Most recently, important work has been conducted in China where over 50,000 biomedical laboratories within the health system have been checked while currently the same survey is going on in laboratories outside the health sector; for example in universities, research facilities, biological production companies and so forth.

Certification of achievement of regional goal for hepatitis B - Potential interest is being expressed by South Korea and Malaysia for certification of achievement of regional goal of hepatitis B control. Both these countries have introduced hepatitis B vaccine in the late 1980s and have maintained very high coverage with three doses of hepatitis B vaccine and with timely birth dose within 24 hours of birth. A formal certification process is planned for both these countries, along with few others in the first quarter of 2008. The Western Pacific Regional Office of WHO has already appointed a resource panel of experts to be appointed for certification purposes.

Expansion of Hib vaccine in the Western Pacific Region - Kiribati, Papua New Guinea and Solomon Islands are preparing plans to introduce Hib vaccine in the first half of 2008. While PNG will be introducing DTP-Hib vaccine, Kiribati and Solomon Islands will introduce DTP-HepB-Hib vaccine in 2008 with GAVI support. Viet Nam is also planning to apply to GAVI for pentavalent vaccine introduction in 2008. With this, the number of countries that have introduced or are planning to introduce Hib vaccine will increase to 25 out of 36 countries and areas in the Western Pacific Region.

***FIJI & TONGA**

26/11/07 from Manju Rani, WHO/WPRO:

Support for cervical cancer disease burden and cost-benefit analysis of HPV vaccine in Tonga - Technical support was provided by a consultant in November 2007 to evaluate the cervical cancer disease burden and cost-benefit analysis of HPV vaccine to prevent cervical cancer. Similar support is being provided to Fiji. The assistance to Fiji will also include HPV genotyping on stored biopsy samples.

LAO PDR

26/11/07 from Manju Rani, WHO/WPRO: Measles SIAs are ongoing from 12-18 November 2007, targeting 2.2 million children aged 9 months to 14 years.

***PHILIPPINES**

26/11/07 from Manju Rani, WHO/WPRO: Measles SIAs are ongoing from 15 October - 16 November, targeting 8.6 million children aged 9-48 months.

VIET NAM

26/11/07 from Manju Rani, WHO/WPRO: Measles SIAs are ongoing from November to December 2007, targeting 3.7 million persons 1-20 years old.

LIST OF MEETINGS & KEY EVENTS RELATED TO IMMUNIZATION

Regional Meetings & Key Events Related to Immunization: Dec 2007 to 2009					
Title of Meeting	Start	Finish	Location	Responsible Partner	Region
Dec-07					
AFRO Task Force on Immunization	11-Dec	14-Dec	Antananarivo, Madagascar	AFRO	AFRO
Global Advisory Committee of Vaccine Safety (GACVS) Meeting	12-Dec	13-Dec	CICG	WHO/HQ	Global
2008 Meetings					
Jan-08					
Sub-Regional Laboratory Network Meeting for Countries of Central and Eastern Europe	08-Jan	11-Jan	tbd	EURO	EUR
GAVI Regional Working Group meeting for West & Central Africa	21-Jan	22-Jan	Libreville	AFRO (W&C)	AFR
Feb-08					
GAVI Regional Working Group for the Western Pacific Region	Feb	Feb	tbd	WPRO	WPR
Global Immunization Meeting	19-Feb	21-Feb	Geneva	WHO/HQ	Global
Mar-08					
GAVI Independent Review Committee Meeting for ISS, INS, NVS and Measles 2nd Dose proposals (Deadline: 8 February 2008)	10-Mar	19-Mar	Geneva	GAVI	Specific
Apr-08					
Strategic Advisory Group of Experts (SAGE) meeting	08-Apr	10-Apr	Geneva	WHO/HQ	Global
GAVI Independent Review Committee Meeting for HSS proposals (Deadline: 7 March 2008)	14-Apr	26-Apr	Geneva	GAVI	Specific
European Immunization Week	21-Apr	27-Apr	Region-Wide	WHO/EURO	EUR
Jun-08					
GAVI Independent Review Committee Meeting for ISS, INS, NVS and Measles 2nd Dose proposals (Deadline: 2 May 2008)	06-Jun	15-Jun	Geneva	GAVI	Specific
GAVI Monitoring Review (Deadline: 15 May 2008)	16-Jun	30-Jun	Geneva	GAVI	Specific
WPRO Pacific Immunization Strengthening Meeting	June	June	tbd	WPRO	WPR
Jul-08					
WPRO Regional Technical Advisory Group (TAG) meeting	July	July	tbd	WPRO	WPR
Oct-08					
GAVI Independent Review Committee Meeting for HSS proposals (Deadline: 12 September 2008)	03-Oct	15-Oct	Geneva	GAVI	Specific

GAVI Independent Review Committee Meeting for ISS, INS, NVS and Measles 2nd Dose proposals (Deadline: 25 September 2008)	23-Oct	31-Oct	Geneva	GAVI	Specific
Nov-08					
Strategic Advisory Group of Experts (SAGE) meeting	03-Nov	05-Nov	Geneva	WHO/HQ	Global
2009 Meetings					
Strategic Advisory Group of Experts (SAGE) meeting	07-Apr	09-Apr	Geneva	WHO/HQ	Global
Strategic Advisory Group of Experts (SAGE) meeting	27-Oct	29-Oct	Geneva	WHO/HQ	Global

LINKS RELEVANT TO IMMUNIZATION

GLOBAL WEBSITES

Department of Immunization, Vaccines & Biologicals, World Health Organization

<http://www.who.int/immunization/en/>

WHO New Vaccines Hib website

<http://www.who.int/nuvi/hib/>

GAVI Alliance Website

<http://www.gavialliance.org/>

IMMUNIZATIONbasics (JSI)

www.immunizationbasics.jsi.com

PATH Vaccine Resource Library

<http://www.path.org/vaccineresources>

UNICEF Supply Division Website

http://www.unicef.org/supply/index_immunization.html

UNICEF Supply Division Product Menu for GAVI Vaccines

http://www.unicef.org/supply/files/Product_Menu_2007.PDF

Hib Initiative Website

<http://www.hibaction.org/>

Japanese Encephalitis Resources

http://www.path.org/vaccineresources/japanese_encephalitis-resources.php

Malaria Vaccine Initiative

<http://www.malariavaccine.org>

Meningitis Vaccine Project

<http://www.meningvax.org/index.htm>

PneumoADIP

www.preventpneumo.org/

RotaADIP

<http://www.rotavirusvaccine.org/>

RHO Cervical Cancer (HPV Vaccine)

<http://www.rho.org>

WHO/ICO Information Center on HPV and Cervical Cancer

<http://www.who.int/hpvcentre/en/>

SIGN Updates

www.who.int/entity/injection_safety/sign/en/

Technet

<http://www.technet21.org/>

REGIONAL WEBSITES

New Vaccines in AFRO

<http://www.afro.who.int/newvaccines/>

PAHO's website for Immunization

<http://www.paho.org/english/ad/fch/im/Vaccines.htm>

Vaccine Preventable Diseases in EURO

<http://www.euro.who.int/vaccine/>

New Vaccines in SEARO

<http://www.searo.who.int/en/section1226.asp>

Immunization in WPRO

http://www.wpro.who.int/health_topics/immunization/

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