July 2018

IPAC BULLETIN

QUARTERLY UPDATE OF THE IMMUNIZATION PRACTICES ADVISORY COMMITEE

Volume 4, Issue 2

WORLD HEALTH ORGANIZATION

A note from the Chair:

Dear colleagues,

Welcome to this slightly belated IPAC bulletin, the second for 2018. It was excellent to see members and others at the July IPAC meeting in Geneva. This meeting was characterized by discussion of how to make the most of the increasing number of innovations becoming available to immunization programmes: such as deployment of vaccines in a Controlled Temperature Chain, new technologies for vaccine delivery (both injection and non-injection), new information on optimal vaccine presentations (such as the dose-percontainer), expansion of work on Total Systems Effectiveness to better understand both costs and programmatic benefits, revision to the Effective Vaccine Management (EVM) toolkit, and new thinking on calculation of vaccine wastage.

Such innovations are essential as long-established vaccination schedules, management techniques and service delivery arrangements, are challenged by the increased volume of new vaccines, expansion of the age groups they target, and the need to sustain confidence and investment. Critically important is the short programme of work on the Vaccine Innovation Prioritization Strategy in which key immunization partners support the assessment and ranking of first 'antigenagnostic' and then antigen-specific

innovations in the provision of vaccination, oriented to the most needy settings.

A sharp reality check has come as I write from the annual meeting of the Paediatric Society of Papua New Guinea, where the emergence of polio (as VDPV-1) shines a harsh spotlight upon persistently low coverage with routine immunization. This group of concerned clinicians discussed the urgent need to reestablish immunization basics, and the immense difficulty of overcoming chronic under-investment in human and other resources. Characteristic of emergency responses everywhere, the key challenge is to meet the immediate need (in this case through the large-scale outbreak response by the government with support by WHO and other partners) while also building for lasting change. Programme innovations have a part to play, but many are more long-term propositions; although updates to EVM and related tools can contribute immediately by providing accurate evidence on what is needed to develop a stronger sustained programme.

Some broader reflections, such as those from the Global Immunization Meeting two months ago, seem pertinent. These include the need to better apply disciplines beyond public health, especially communications or political sciences, to

strengthen community confidence in and demand for immunization. Can we find ways to help local politicians understand the dangers that an under-vaccinated community represents? Can we look differently at resource disparities, perhaps using tools such as Dollar Street (https://www.gapminder.org/dollar-street/) to better understand how these limit or potentiate vaccination?

Before I close, I would like to add my appreciation of the contribution made to IPAC by Dr Amani Mustafa, whose term completes this month. I am so grateful for her thoughtful, considered reflections on what is needed to make our ideas relevant to national programmes and national managers. We will greatly miss her involvement in IPAC.

Best wishes

Chris Morgan cmorgan@burnet.edu.au



C.Morgan: IPAC Chair



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From the Working Group frontlines

CTC Working Group update by Anna-Lea Kahn (CTC focal point at WHO and part of the CTC-WG Secretariat)

The IPAC Working Group on the Controlled Temperature Chain notable, clear challenges remain 2019. in defining the user case and optimal, yet realistic product profile. Recent momentum in this work stream has been marked by the February 2018 licensure of the LG Chem Hepatitis B product, Euvax B Inj. Vaccine in 0.5ML presentation, by the Korean MFDS. The specific CTC indication allows for storage up to "45°C for 4 days immediately prior to administration, provided the vaccine has not reached expiry date." This new



WHO/C.Black— vaccinating babies born at home

indication has yet to obtain ap- threshold temperature for use proval from the WHO Pregualifi- out of the cold chain should be.) cation team, however. The product labelling also allows for 28 days at a 37°C threshold, which his just below the standard required for CTC.

In the meantime, WHO and PATH, through the guidance of the CTC-WG, have drafted a commatter. prehensive document detailing 2018.)

From these recent efforts has emerged a clear gap in information currently available on the potential market and value proposition for CTC-qualified Hepatitis The next teleconference of the persist around the acceptable week of Septemeber . Anyone product profile characteristics to interested is welcome to join promote, especially with respect these calls. For further details, the vaccine needs to be able to (bauquerezr@who.int) or Annatolerate ambient temperatures) Lea Kahn (kahna@whot.int). and threshold temperature (the minimum value that the upper

It has been noted that four days meets generic CTC requirements for minimum duration allowance of end-of-distribution temperature excursion from the tradition-(CTC-WG) met by teleconference A second vaccine manufacturer, al cold chain. However, it does on June 13th, 2018 to have a fo- based in India, remains also com- not meet the programmatic cused discussion on the prospects mitted to seeking CTC certifica- needs in the specific context of for Hepatitis B licensure and up- tion for its Hepatitis B product, out of facility HepB-BD delivery. take for use in a CTC. It has been though it is still working on gen- Even if this could be extended to acknowledged that while pro- erating the required stability data 7 days, the CTC-WG questioned gress in gaining industry interest and does not expect to be able to whether a full week offers suffiin such a label variation has been seek regulatory approval before cient utility and agreed that additional input from relevant country-level programs, as well as more implementation research is required to properly address this

> the research in support of deliv- Potential options to lengthen the ering Hepatitis B Birth Dose CTC duration for HepB vaccine (HepB-BD) outside of the tradi- were also discussed by the WG, tional cold chain, as well as the including decreasing the acceptaassociated challenges and the ble threshold to 37°C, decreasing specific product characteristics product shelf-lives, and/or insought of a vaccine for this pur- creasing antigen content. It was pose. (This document should be concluded that more data from finalized and available online on both country programs and manthe WHO-IVB website's dedicated ufacturers were required before CTC pages by early September any recommendations could be made. Exploring the feasibility and cost benefits of varied compact, prefilled autodisable devices (CPAD) was also encouraged.

> B vaccines. Much debate also CTC-WG is scheduled for the final to CTC duration (number of days please contact Rachel Bauquerez

Working Groups (Cont'd from page 2)

Summary of outcomes from June 2018 GACVS meeting

by Ian Gemmill (IPAC Member, attended on behalf of IPAC)

on Vaccine Safety (GACVS) re- which indicated that, overall, vaccently discussed 2 vaccine safety cinated trial participants had a issues: pharmacovigilance in the reduced risk of virologically con-RTS,S malaria vaccine pilot study firmed severe dengue and hospiand data on dengue vaccine from the Philippines. It also reviewed trial participants who had not three generic issues: progress in the Global Vaccine Safety Initiative (GVSI), communication about vaccine safety and new developments in the Vaccine Safety Net of severe dengue and hospitaliza-(VSN).

RTS,S malaria vaccine pilot study

Following a joint review convened by the African Vaccine Regulatory Forum (AVAREF), the national regulatory authorities of Ghana, Kenya and Malawi granted special authorization in May 2018 for use of the RTS,S malaria vaccine in the planned pilot implementation programme. monitoring of safety of new vaccines is a key part of implementation, safety data will be derived from: (i) post-marketing monitoring of cohort events by the manuwith detailed active follow-up; (ii) surveillance of mortality throughout the pilot area and surveiland (iv) through passive reports of ad-basic vaccine safety, guidelines,

each country.

Data on dengue vaccine from the **Philippines**

GACVS reviewed long-term follow -up in clinical efficacy trials of The Global Advisory Committee dengue vaccine in the Philippines, talization; however, a subset of been infected with dengue virus before vaccination (i.e. denguenaïve, seronegative according to the NS1 assay) had a higher risk tion. As a result of these findings, GACVS has recommended that CYD-TDV not be administered to individuals who have not been previously infected with wild dengue virus. GACVS also noted that no data are currently available to Communication about vaccine allow an analysis of risk according safety to the number of vaccine doses received by people who are seronegative at baseline. GACVS will continue to monitor this issue.

Safety Initiative (GVSI)

The Global Vaccine Safety Blueprint (GVSB), a framework of 8 facturer GlaxoSmithKline (GSK), objectives for enhancing global vaccine safety activities, has a vision of effective vaccine pharmacovigilance systems establance of meningitis and cerebral lished in all countries, which has malaria in sentinel hospitals in progressed steadily. Countries are both control and RTS,S areas; (iii) reporting AEFI and are meeting active surveillance of adverse indicators of improvement in events of special interest (AESI); safety surveillance capacity. Repharmacovigilance sources, training packages on verse events following immuniza- AEFI surveillance and manage-

tion (AEFI) with all vaccines from ment, signal detection and communications are integral to robust building and maintenance of capacity for vaccine pharmacovigilance and trust in immunization programmes.

> The concept of the Global Vaccine Safety Observatory also was discussed. It was conceived as a clearinghouse for data on vaccine safety systems to assist member countries in achieving the Blueprint objectives. The Observatory will start with 4 regional nodes that provide academic, programmatic, regulatory and technical expertise. The expected outputs the Observatory include presentation and analysis of relevant data, a website to provide indicators of vaccine safety capacity and links to relevant activities for vaccine vigilance, and an annual report.

A new GACVS subcommittee on vaccine safety communication has been established to integrate safety assessments with better Progress in the Global Vaccine capacity to communicate them. It is proposed that a framework and templates for communication on vaccine safety be prepared by mapping vaccine safety communication activities throughout the life cycle of products, examining current vaccine safety communication tools and identifying gaps, and proposing approaches to fill the gaps. The first task of this subcommittee was to prepare a more detailed action plan, including case studies to illustrate how safety is communicated under various circumstances. (Cont'd

on page 4.)

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Working Groups (Cont'd from page 3)

New developments in the Vac- bers provides new opportunities locally in member countries. cine Safety Net (VSN)

The Vaccine Safety Net (VSN) is a WHO initiative initially launched to identify trustworthy information on vaccine safety and immunization on the Internet. GACVS supports the VSN by providing advice and crite-ria for website quality and content, thereby facilitating access by public health authorities, health professionals and the public to reliable information on vaccine safety. There are currently 58 member websites in 16 languages, covering the 6 WHO regions.

The good alignment of VSN mem- vaccine safety events that occur

for research. A recently explored area is web analytics to document patterns of web-searching on specific vaccine safety issues around the globe and at each VSN site. Web analytics could also be used to monitor the effects of digital communication strategies in real time. Research on measuring, understanding, tracking and addressing vaccine confidence was identi-fied as another important area. A digital toolkit or news-letter would provide updates, tips, lessons learnt and risk communication guidance and resources for responding to

Readers who would like to read the full proceedings of this meeting may do so at:

http://www.who.int/wer/2018/ wer932930/en/



WHO/O. Asselin—Vaccine safety



WHO EPI announces new resources on vaccine demand, acceptance, and hesitancy

Two new groups of resources are - Advocating and political will now available for the areas of de- - Using social data for learning and mand, acceptance, and hesitancy:

ance UNICEF, CDC, JSI, IFRC, and links to further information. WHO/EPI.

These documents are all available on this area goes beyond traditional the following GAVI web pages: https://www.gavi.org/library/gavidocuments/guidelines-forms/

This guidance should serve as useful references during joint appraisals or any other similar planning activities.

It makes the case for investing in this area, and outlines the main areas of work to be considered:

- Enhancing service quality and accountability
- Engaging communities and shaping social norms
- Managing risks & building resilience

- decision-making

demand; for planning processes and stakehold-Developed by the Gavi de- er involvement, outcome indicators, www.who.int/immunization/ mand 'strategic focus area' and includes numerous examples of programmes_systems/ group, with support from approaches and interventions, with vaccine hesitancy/en/

> It should be noted that the scope of new resources: communications, social mobilization, and community engagement, also encompassing service quality improvements, planning to mitigate and respond to vaccine related events (e.g. rumours, misinformation, and AEFIs), and the importance of generating social/behavioural data for specific population groups to diagnose and address under-vaccination. The value of tailored and targeted ap- 1. proaches is also emphasized.

2) Updated WHO tools and re- 2. sources to support efforts to

assess and address hesitancy, and to build demand.

This revised WHO guidance and ma-New Gavi programming guid- The documents also offer suggestions terial can be found on the WHO vaccine hesitancy web page: http://

This update includes the following

- Global information on the updated Tailoring Immunization Programmes (TIP) approach, based on TIP guidance from EURO;
- An evaluation tool for research to explore caregiver / health worker interactions;
- Health worker training materials on:
- managing pain during vaccination, and
- conversations with hesitant individuals.

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IPAC's 12th Meeting— a brief summary

by Gill Mayers (meeting rapporteur)

The Immunization Practices 1. Advisory Committee (IPAC) convened for the 12th time on 10-11 July 2018 in Geneva, Switzerland to support and advise the Director and staff of 2 the WHO Department for Immunization, Vaccines and Biologicals (IVB) with the review and/or formulation of immunization practices, operational standards, tools and technologies. Advice aimed to strengthen and improve the delivery of immunization programmes at the country level to realize the goals of the Global Vaccine Action Plan (GVAP).

Special thanks were conveyed to Dr Chris Morgan, the IPAC Chair, who has extended his term by one year to provide continuity to IPAC during the management transition currently ongoing in the IVB Department. IPAC members were also thanked for the valuable and generous contribution of their time.

eral's commitment to reach gic Advisory Group of Experts http://www.who.int/ one billion more people with (SAGE) on Immunization. access to universal health coverage (UHC), is now more essential than ever. The topics deliberated over the two days related to:

facilitating access to vaccine innovations:

- the different working groups and committees;
- **Optimizing** vaccine through delivery cess, and chains.

"This year's agenda emphasized innovation, a theme which is now more essential than ever. "

closed session for IPAC simplicity. members only was held on the third day to discuss how to en- The full meeting report can be sure IPAC's work remains rele- accessed through the follow-This year's agenda emphasized vant and impactful, one of the ing link to the IPAC page of the innovation, a theme which, in key issues being the linkages WHO/IVB website: light of the WHO Director Gen- between IPAC and the Strate-

> During his opening remarks, Chris Morgan highlighted that immunization is going through a time of change - administrative changes in WHO, and changes in the complexity of

Improving coverage process of immunization – and and equity by better that as such, the immunization community needs to focus on navigating these transitions. He noted that vaccination is Receiving an update key to disease control, and on the activities of that the Expanded Programme on Immunization (EPI) is one of the world's most successful public health platforms. EPI has always been characterized by simplicity and predictability, but this is no longer the case. There are new vaccines and better financing, ac- new ways of delivering them supply that are to be embraced if ambitious global goals are to be met. He remarked on a possi-

ble tension in the meeting agenda of how to accommodate new opportunities and innovations while remaining oriented to the needs of field programmes at all levels, that is: how to combine current complexity and historical

immunization/ programmes systems/ policies_strategies/ipac/en/

The report will also be published shortly in WHO's Weekly Epidemiological Review.

IPAC bids farewell to Amani Mustafa



Dr Amani Mustafa will be unfortunately completing her term as a valued IPAC member in September 2018. Dr Mustafa, a Public Health and Com-

munity Medicine specialist from Sudan, currently works with the Carter Center. She played a key role in offering country-level perspective to IPAC discussions, with particular expertise on national policy and regulatory issues. In addition to her service on IPAC, Dr Mustafa contributes to WHO's immunization agenda through the SAGE Working Group on the Global Vaccine Action Plan.

It is with much regret that the IPAC Secretariat is launching a new call for nominations in August 2018 to replace Amani, as finding a candidate as distinguished as her and with as rich a professional profile will be very challenging.

It is with sincere gratitude and best wishes that we part ways.

Upcoming Meetings & Events:

- ⇒ 28 30 Aug 2018 Geneva, Switzerland:

 Decade of Vaccines SAGE WG Meeting
- ⇒ 24-26 Sept 2018 Annecy, France: Immunization and Vaccines-related Implementation Research (IVIR) Advisory Committee Meeting
- ⇒ 27 28 Sept 2018 Annecy, France: SAGE WG on HPV Vaccines Meeting
- 8 -10 Oct 2018 Santiago, Chile:
 7th Global Vaccine Safety Initiative
 Meeting
- ⇒ 9-12 Oct 2018 Copenhagen, Denmark:
 WHO/UNICEF Meeting on Monitoring National Immunization Systems
- ⇒ 23 25 Oct 2018 Geneva, Switzerland: Strategic Advisory Group of Experts (SAGE) on Immunization



A final word from the IPAC Secretariat

The past month was a very busy one, highlighted by our annual meeting. We wish to thank you for your active participation in this meeting and ongoing support of this Committee. As IPAC members will recall, you elected to have this Bulletin continue and as such we rely on your inputs and suggestions, with respect to preferred content. Such contributions become all the more essential when you represent IPAC on other working groups and sub-committees. We look forward to sharing your views and concerns, as well as taking on your new ideas. Please send all relevant correspondence to Chivonne Tambourlas (tambourlasc@who.int).

In the meantime, we wish you a pleasant end to the summer!

The IPAC Secretariat Team