# IPAC BULLETIN

April 2016

QUARTERLY UPDATE OF THE IMMUNIZATION PRACTICES ADVISORY COMMITEE

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WORLD HEALTH ORGANIZATION

#### A note from the Chair:

Dear IPAC members and observers,

the tOPV to bOPV 'switch'.

improvement!

Please especially note posts/ emails with the subject REVIEW On IPAC's behalf, I attended the REQUESTED TechNet21 (under the Applications tab). If at there as well. Once again, all possible, please also provide SAGE spent a large amount of brief comments in the discus- time dealing with issues highly

involved.

We need you to "hit" us more! While logged in on downtown sage/meetings/2016/april/ observers if they wish) to active- sented to IPAC in the past re- formal report in the WER. ly use the IPAC Discussion Fo- emerges on other sections of rum hosted on the TechNet21 TechNet21. Three examples Thanks to all for your work site for document review and over the past few months: the through IPAC - look forward to discussion. I'm encouraged that new annotated bibliography of seeing you online and via telerecent posts by Anna-Lea, such home based records running conference soon! as the draft IPAC strategy struc- out of Swiss Tropical Institute; ture received 23 hits as people new guidance on solar vaccine download and 6 replies as peo- fridges and freezers; planning ple give public comment; this and supply chain for outreach compares to the zero hits re- services; and the final report of ceived by some posts in Novem- the "Briefing on WHO Tools ber- so must represent some and Guidance on Immunization Data Quality and Vaccination Coverage Surveys".

> and use the SAGE meeting - it was good Discussions tab to see a few other members

sion related to that document so relevant to immunization practicothers on the committee can es such as missed opportunisee and react to what you think. ties, second year of life and If TechNet21 log-in is impossible health systems integration. I Welcome to the April 2016 IPAC for some reason - do please have provided a brief summary bulletin, written at an historic provide comments by email, and from a practice perspective in time in global immunization - let Anna-Lea know you are still this bulletin and you can also see the web-report at: http:// www.who.int/immunization/ As we provide advice to WHO, Yangon's dodgy internet, I've SAGE April 2016 Meeting We we do need all members (and also noticed how often work pre- b summary.pdf and look for the

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#### Inside this issue:



New IPAC Call for Nominations launched	2
IPAC strategic framework under development	2
VPPAG Transition	3
From the Working Group frontlines	3
Reflections from SAGE April 2016	4
SAGE supports Second Year of Life Guidance	4-5
Reducing Missed Opportunities for Vaccination	5
Dose per Container Partnership	6
New IPAC Working Group on CTC	7
Upcoming meetings and events	7
A final word from the IPAC Secretariat	7

Page 2 **IPAC BULLETIN** 

#### New IPAC Call for Nominations launched.

launched this process back in (Jon Colton and Robin Biellik) with a deadline in early Febru- be aiming to select four new fill the two seats vacated by round of nominations. perience to IPAC, better reflect- appropriate candidates. ing the broadening scope of the Committee's agenda.

Much to the IPAC Secretariat's dismay, the response to that call for nominations did not yield the calibre of applicants we were seeking and it was determined that it would be in the best interests of the Committee to refrain from selecting out of the February pool of candidates, in favour of a new, better targeted launch this Spring. The revised Call for Nominations was therefore published and circulated earlier this month (available also through the IPAC Discussion Forum) Nominations from any geoand carries a new application graphic regions will be considdeadline of May 31st.

As you may recall, we initially In view of two more members December 2015, when we post-reaching the end of their terms ed an IPAC Call for Nominations during the next quarter, we will ary. Our objective had been to members through this current Robert Steinglass and Shelley therefore more critical than ever Deeks with persons who could that you help us get the word bring new varied skills and ex- out and not hesitate to propose

> The Secretariat is looking for two types of new member:

- a) Experts in target areas such as delivery (injection devices or others), regulatory pathways for new vaccine technologies, immunization program management reform or immunization policy; and
- with national or regional im- program issues. munization programs, and the field realities of providing immunization services.

particularly could use experts IPAC Bulletin.

"We will be aiming to select four new members through this current round of **IPAC** nominations."

new technologies for vaccine with expertise in the South Asian and Western Pacific regions, and for increased female membership. We are also very interested in nominees with experience in applying implementation science or health systems b) Experts with deep engagement research tools to immunization

We are very mindful that Jon and Robin will be leaving some big shoes to fill. We look forward to your suggestions and to announcing the outcome of this ered, but as you know well, we round of nominations in the next

## IPAC's strategic framework under development

The IPAC Secretariat remains ommendations was the Devel- framework document. We bepleted IPAC's functions, operational the outcomes of the evaluation, purpose and objectives. structure, and future potential, such as by spelling out a com-

The Committee's feedback next month on this draft document will be critical.

Among the most important rec- munications plan for the Committee and Secretariat, an agenda reflecting IVB subject priorities, as well as a clear set of 1. Inception-April 2016 performance benchmarks for the Committee.

> As was announced through the IPAC Discussion forum, Burke Fishburn- who headed up the external evaluation team- has 4. IPAC review of draft docubeen commissioned once again to support IPAC by developing 5. Final report/framework docuthe initial draft of this strategic

committed to addressing the opment of a 2-year IPAC strate- lieve he is best suited for this seven recommendations which gic plan which presents more task, given his familiarity with emerged from the recently com- clearly the framework in which the Committee, both in terms of external evaluation of IPAC operates and deals with history and evolution, as well as

> The agreed timelines for the document's development are as follows:

- 2. Desk review late April / early May 2016
- 3. Draft framework document mid-May 2016
- ment-mid-May 2016
- ment —late May 2016

# **VPPAG Transition** - by Debra Kristensen, Dmitri Davydov, and Anna-Lea Kahn

To build on the successes of Candidates VPPAG, and in recognition of the (PSPQ) document and process. significant changes recently implemented to the structure and functioning of IPAC, as well as the recommendations from IPAC's external evaluation with respect to clarifying and streamlining the Committee's functions and relationship with other a) Consolidating advisory groups, WHO has been aiming to restructure the VPPAG's work streams to allow for stronger and more effective impact and reporting lines.

The VPPAG has served as a unique forum for public sector agencies and industry to discuss and reach consensus on vaccine presentation, packaging, and delivery issues in b) Moving the Delivery Technolorder to effectively support the development of products suited to lowand middle-income country contexts. The VPPAG also has responded to requests from industry, vaccine development groups, IPAC and other relevant agencies for consultations and guidance on specific product

The VPPAG has largely been an independent entity to date that has reported progress to IPAC on a regular basis. In addition, the recommendations from the VPPAG's Generic Preferred Product Profile for c) Vaccines (gPPP) document have informed guidance and requirements within WHO's Assessing the Programmatic Suitability of Vaccine

for Prequalification

The following steps have been agreed on by the IPAC Secretariat and Chair, the VPPAG Secretariat and Chair, and relevant units within

- the broader roles of VPPAG into IPAC. IPAC, directly or through its respective subgroups, will now serve as the source of general information for vaccine industry members about immunization programme progress and issues, through existing IFPMA and DCMN representation.
- ogies working group directly under IPAC. This working group is dealing with primary container and delivery technologies and the recommendations from this working group can continue to inform the PSPQ which also reports to IPAC. The Delivery Technologies working group (DTWG) will also take on the role of providing initial informal consultations to stakeholders on specific delivery technology and primary container issues.
- Moving the Packaging working group under WHO's Essential **Medicines and Health Products** (EMP) department's oversight. under the continued leadership of

Denis Maire. This working group is focused on recommendations that will feed into WHO's Guidelines on the International Packaging and Shipping of Vaccines currently under review by the vaccine prequalification team within EMP. This working group will continue to include and work closely with industry to ensure strong communication and exchange of ideas and issues.

It is recognized that these changes will require some adjustments to facilitate a smooth transition. Working group memberships may need to be modified to ensure that all appropriate agencies and skills are brought to bear on the issues. The latter effort will be coordinated by the respective chair-persons. New working groups, such as one focused on the Con trolled Temperature Chain (CTC) will be formed as needed on a case by case basis through IPAC. While the existing gPPP stands as a relevant document for vaccine developers and may influence future versions of WHO's PSPQ, new recommendations from the working groups will flow directly into the PSPQ and relevant WHO guidance documents.

The transition process is to be considered complete at the end of April 2016.



Photo: Unicep - Blow-Fill-Seal Unit Dose

opers and defining the critical characteristics for this types of packaging. In the coming months, DTWG will be seeking feedback from IPAC on the MAP TPP, as well as PATH's technology prioritization framework, and the total system effectiveness framework that is currently under development to provide a comparative evaluation of the commodity and system costs for the current vaccine/technology presentation compared to a new presentation.

# From the Working Group frontlines

Gitte Giersing: A briefing from the new Delivery Technologies Working Group (DTWG)

On 7 April 2016, it was announced container and vaccine delivery techpartners, vaccine manufacturers, ery device/technology developers, funders, PDPs and NGOs.

In the brief time since its inception in December 2015, the group has developed a Target Product Profile (TPP) for measles-rubella microarray patches (MAP), convened a workshop to discuss MAP product develthat the DTWG will report directly to opment including regulatory path-IPAC, rather than through VPPAG. ways and cost modeling, considered The DTWG evaluates novel primary the optimal design for blow-fill seal (BFS) primary containers and intenologies, and where appropriate will grated needle designs and is currentcollaborate with PSPQ to form rec- ly developing and evaluating a qualiommendations for IPAC. The DTWG, tative and quantitative framework to co-chaired by PATH and WHO, is inform and aid decision making with composed of global public health regard to prioritization of novel delivand packaging technologies. The group is currently providing feedback to BFS container develPage 4 **IPAC BULLETIN** 

#### Reflections from SAGE April 2016 - by Chris Morgan

Some high level themes I noticed:

"global health security" is increasingly used as a concept to frame many discussions; vaccination in emergencies or conflict have challenged existing plans but also enabled innovation; recurring discussion on stockpiles and rapid response plans provoked by outbreaks and by global vaccine shortages; that the technical blueprint for rapid research re**sponse** in emergencies is now more mature; and an iterative discussion in the chairs' meeting on the private sector as a group increasingly important as immunization provider, source of information, and potential disrupter in resource-constrained settings.

Prevention of respiratory syncytial virus infection is arguably the most active research pipe-line of relevance to WHO. The different types vaccine research. I emphasized the of vaccine and immunological prod-need to clarify which research tools ucts under development have wide are most useful to research rigor in variation in implementation strategy, implementation evidence, and links ranging from maternal immunization, newborn/birth-dose administration, More evidence is going to be needto provision alongside the primary schedule. These vary in efficacy, so tation future decision making will need to effectiveness, especially when they balance this with programmatic con- require new "immunization platsiderations.

On dengue, SAGE discussed the implications of phase 3 trials in 10 countries in Asia and Latin America. and modeling of potential impact of the CYD-TDV (Dengvaxia®) prod- Work on the second year of life platuct, now licensed in 5 countries and form, essential to measles second introduced in Philippines. This needs to be given in children over the malaria RTS,S) is much more adnine-years of age - accessing the vanced than when we reviewed it last

more data is to come on coadministration with other vaccines designed for this age group. SAGE recommended that countries considleast 50+%).



April 2016 SAGE - WHO/C. Corsini

Implementation research Two new vaccines were discussed. health systems integration had a dedicated session, and were mentioned throughout SAGE, with a stronger call to embed this in all new to good programme evaluation. ed for newer vaccines on implemenfeasibility and costforms": such as the adolescent platform. For example, it seems that deliver HPV and need alternatives.

dose (and other new vaccines such as emerging 'adolescent platform' -and October, and I am especially keen to

see this coming back to IPAC for review over the next month or so. Some SAGE members saw this platform as needing an explicit linkage back to er introduction in populations where comprehensive primary health care. seroprevalence is high (70+%, or at (A more detailed summary of this session by Rudi Eggers appears below.)

> SAGE also heard an update on work on missed opportunities for vaccination. The new strategy documents include a planning guide, revised assessment protocol, and intervention handbook – a very structured data-driven process. Case studies illustrated testing of the approach including, from Malawi, the contribution of home-based record as a health passport required for all consultations. (A more detailed summary of this area of work by Ike Ogbuanu appears on page 5.)

The session on global vaccine shortages soberingly noted roughly 60% vaccines in shortage or at risk of shortage - especially "older" vaccines, and with the example of IPV fresh in everyone's mind. All partners in the room, including industry were calling for increased global discussion on supply and demand issues. The Linksbridge tool for the Global Vaccine Market Model - developed in 2015, is soon to be publicly available to help improve transparency and forecasting of vaccine needs. I found encouraging the consome countries find that school-based clusion that the OPV switch can provaccination is an expensive a way to ceed despite IPV shortages, and the demonstration of the key global coordination role of UN agencies - in this case by the prioritization of countries on the basis of infection risk rather than markets.

# SAGE supports 2YL guidance - by Rudi Eggers

Information was presented to SAGE deliver missed vaccine doses of the introduction of the routine meahealthy child visits during the second year of life (2YL). There are multiple benefits to establishing a other interventions in the 2YL. Firstly, it provides for an additional routine contact for vaccination in the 2YL to delivery primary vaccination doses, booster doses and second doses. Secondly, a routine visit in the 2YL will allow an opportunity to

on creating guidance to national fered in the first year of life through programmes to establish routine catch-up vaccination. Thirdly, such a routine visit creates opportunities to integrate with multiple other health interventions, and reinforces good strong platform for immunization and Primary Health Care (PHC) practice.

> The presentations outlined the planned project to develop guidance, gathering experiences and learnings from two countries (Zambia and Senegal), describing the challenges Zambia faced with

sles second dose, and the process it followed in identifying shortcomings and defining additional strategies to improve the programme delivery. The Zambian Ministry of Health initiated a process to address these challenges, focussing on the development of policies and guidelines, improvement of data collection and recording tools, assuring the availability of the necessary commodities at the point of service delivery (including the non-vaccine commod-

#### 2YL update - continued from page 4

ities required to deliver a comprehensive healthy child service) and com-

The global landscape analysis and literature review provided insights into experiences from many countries on routine visits in the 2YL, highlighting the gap between doses given by the end of the first year of life and those delivered beyond. While many countries have introduced a 2YL visit. it is found that there is a large vaccination drop-out to doses given in the first year of life, opportunities of catching-up missed doses are a major cause of lower 2YL coverage,

SAGE supported the development of tion service requirements are firmly decide on eligibility of vaccines, esearlier doses. While WHO has devel-sent to SAGE for endorsement. oped recommendations to deal with

frequently vaccines are given at dif- "interrupted or delayed schedule", ferent times during the 2YL, not to- countries should be supported to gether and frequently other health develop easy to understand job-aids interventions in the 2YL are poorly or decision flow charts to deal with integrated with the vaccination visit, such event, allowing the health worker to make appropriate vaccination munity engagement and communica- this guidance, highlighting the need catch-up decisions. Recording and that this work is strongly supportive reporting tools should be revised to of a continued revitalization of a com- assure that data are collected adeprehensive Primary Health Care ap- quately, and the forms do not comproach, ensuring that the immuniza- municate false policy directions. Finally the expansion of electronic imimbedded into a broader delivery of munization registries would greatly health services appropriate for this facilitate the proper understanding of age group. The increasing complexity the programme in the second year of of the schedule requires better guid- life. SAGE requested that the final ance to health workers on how to guidance developed for this work to be reviewed by the Immunization pecially for children that had missed Practices Advisory Group and then

## Reducing Missed Opportunities for Vaccination: A concrete strategy to improve coverage and equity - by Ikechukwu Ogbuanu, IVB

Concerned about stagnating immun- been undertaken in the Dominican integration of services was highlightization coverage, during its October Republic, Panama, Peru and Colom- ed by the very high proportion of chil-2014 review of the GVAP Progress bia (Bogota), Chad and Malawi and dren attending for treatment who Report, SAGE recommended studies are in the planning stages for several were never referred for vaccination. to understand how opportunities to more. This effort to re-launch and Related to this is the importance of vaccinate people are being missed expand the use of MOV strategy has vaccination records. Home-based

by health-care workers and their systems, and action to markedly reduce their incidence.

A missed opportunity for vaccination (MOV) occurs when a person eligible for vaccination, and with no valid contraindication, visits a health service facility and does NOT receive all recommended vaccines. The number of MOVs in some countries is huge, and

MOV was estimated at round 32% for children.<sup>2,3</sup> With relatively very little effort or cost (compared with reaching children who have no access to the health system), ensuring that all visitors to health centres are vaccinated can have an important impact on raising coverage of national immunization programmes.

WHO has recently updated the protocol and tools for conducting MOV assessments, as well as the guidance for follow-up interventions. These consist of a Planning Guide outlining the 10-step process; a detailed MOV Assessment Protocol; and an Interventions Handbook. In collaboration with WHO Regional Offices, MOV assessments have



globally the pooled prevalence of Malawi MOV focus group - WHO/I. Ogbuanu

generated interest from a number of partners, and WHO has convened a partner coordination framework to tem strengthening plans and applicasupport the scale-up of the MOV tions. strategy and amplify its impact.

The data accumulated so far show compelling evidence that children attending health facilities for vaccination, clinical care or other reasons were not offered the opportunity to receive all the vaccines they need 2. Hutchins, et al., Studies of missed op-(up to 57% for all clinic attendees; up to 25% for children attending for vaccination and up to 89% among those the World Health Organization, 1993;71 attending for medical consultation). The reasons for MOVs were mostly attributed to health workers (above review of missed opportunities for immun-60%), as well as to caregivers (27%) ization in low- and middle-income counand health services (11%). Lack of tries Vaccine 2014; 32:6870-6879

records/child health cards in use can affect the ability to verify vaccination status (child health passports which must be brought to every clinic visit vs. child vaccination cards used for immunization services only). A key feature of the new MOV strategy is that data collection is designed to lead to action through the identification of locally appropriate solutions and the development of work plans to reduce MOVs. To ensure sustainability these are accompanied by supervision and long-term impact monitoring and should be part of health sys-

#### References

1. Meeting of the Strategic Advisory Group of Experts on immunization, October 2014 conclusions and recommendations. Weekly epidemiological record, 2014;50 (89):561-579.

portunities for immunization in developing and industrialized countries; Bulletin of (5):549-560

3. Sridhar, et al. A systematic literature

### Dose per Container Partnership (DPCP) launched - by Craig Burgess, JSI

The issue: Multi-dose containers DPCP aims to address the comare used to offer lower prices, plexity of vaccine product and higher supply volumes, and mini- program decision-making to inmize cold chain storage and dis- clude DPC considerations. Untribution requirements. As new, derstanding and assessing the more expensive, vaccines are trade-offs between cost and introduced in multi-dose presen- health impact allows better in- Stakeholders: DPCP aims to tations, maximizing the use of formed decisions about the im- inform, support and influence every dose in a container in- pact of the dose per container stakeholders at: creases in importance. HCWs selected. need to be more strategic about when to open a container; diligent about how they care for open containers, and potentially more active with communication and community outreach to ensure optimal attendance and timely vaccination of every child. i. To gain a deeper understand-Thus, the number of doses per container (DCP) may also impact on health systems in terms of timely, safe and equitable vaccination coverage, supply and cold chain, wastage rates, cost and HCW behavior.

Immunization stakeholders need information and tools to assess which dose per container presentations are appropriate for a country's specific context and priorities.

Initial 2015 response: With Bill & Melinda Gates Foundation (BMGF) funding, JSI Research & Training Institute, Inc. helped identify evidence gaps by interviewing key stakeholders and analyzing existing research. An informal network of partners interested in advancing this work was created after a consultative meeting in July 2015.

Launch of the partnership: The Dose Per Container Partnership (DPCP) was launched in March 2016 as a project, funded by the BMGF and implemented by JSI partnership with PATH, Agence de Médecine Préventive (AMP), Clinton Health Access Initiative (CHAI), HERMES modeling team and the International Vaccine Access Center (IVAC) / Johns Hopkins University. The

DPCP objectives and work streams: The DPCP project will run from February 2016 - December 2017, guided by a Technical Advisory Group (TAG), and aims to achieve two objectives:

- ing of the decision making processes, trade-offs, data b) Country level, by producing and tools used to assess DPC decisions at global and national levels in order to recommend process improvements:
- ii. To provide guidance and tools including trade-offs to be con- Information about the DPCP will
- country level decision makers.

These will be implemented streams:

- (JSI) i. A global cross-country review of current DPC-related decision making tools and processes;
  - Prospective research studies in two African countries will include data collection to improve modeling efforts, economic analysis and see the

- actual effect on the various systems variables; and
- iii. Synthesis of data supporting global level policy and country decisions.

- a) Global level, by providing evidence that fills critical gaps in knowledge, analysis, and policy. This includes ensuring that stakeholders will continue to be informed about sustainable decisions on DPC when considering vaccine products and program designs; and
- easy-to-use and -understand guides and tools to assess DPC tradeoffs, including cost and systems impact to inform vaccine product selection

sidered by countries and facili- be made available through partners engaged with the project, iii. sharing of best practices for the JSI website, announcements via the TechNet forum and various formal and informal opportuthrough three technical work nities where immunization practitioners meet globally, regionally or nationally.

> (The first announcement about DPCP on TechNet21 is available through the following link:

http://www.technet-21.org/en/ forums/dose-per-containerpartnership-dpcp-launched)



# WATCH THIS SPACE: New IPAC Working Group on CTC under development

With a fourth vaccine recently being licensed for use in a **Controlled Temperature Chain (CTC)** and a growing number of countries expressing interest in this innovative approach to cold chain management during the critical last mile, the CTC agenda has been garnering momentum and therefore requires strategic guidance today, more than ever. It has therefore been agreed that a new IPAC subgroup should be established, similar in structure and function to the Delivery Technologies Working Group.

The mission of the CTC WG will be to convene key stakeholders to define a shared vision and strategy for CTC and to increase advocacy for this innovative approach. The working group will serve as a platform to engage in a constructive dialogue with countries, manufacturers and regulatory authorities to identify demand and priorities.

The specific terms of reference are still under development and a draft will be shared with the Committee as soon as available. In the meantime, any IPAC members or observers interested in participating in this CTC Working Group are invited notify Anna-Lea Kahn.

For more information on CTC, please consult the WHO/IVB website at the following link:

http://www.who.int/immunization/
programmes systems/supply chain/ctc/en/

# Upcoming Meetings / Events:

- ⇒ May 4-5, 2016: Geneva, Switzerland – Consultation for Guidelines on quality, safety and efficacy of Ebola vaccines
- ⇒ May 16-20, 2016: Rome, Italy - Vaccine Management and Handling Workshop & WHO/UNICEF iSCL Hub Meeting
- ⇒ May 30 June 1, 2016: Montreux, Switzerland – Immunization and vaccines related implementation research advisory committee (IVIR-AC) Meeting
- ⇒ June 14-15, 2016: Geneva, Switzerland – Expert consultation on implementation of SAGE recommendations on Dengue Vaccines

#### A final word from the IPAC Secretariat

A key piece of the Secretariat's efforts in the past three months has been the definition of an agenda for IPAC which reflects the priorities of the IVB department and remains aligned with recommendations emerging from SAGE, while still fitting appropriately into the Committee's mandate and capacity. You will shortly be invited to comment on this agenda and the associated potential outputs, as well as the proposed mechanisms by which different subject matter can be tackled by IPAC. This will most likely be followed by the scheduling of a teleconference in early July.

In the meantime, many of you continue to query when the Committee will next meet face to face. As you know, under the Committee's new modality, such meetings take place every 12 to 18 months, depending on needs. We still remain confidant that much of our work can be carried out effectively through virtual mechanisms, with a principle one being the IPAC Discussion forum hosted by the TechNet21 website. Nevertheless, we are planning for our **next meeting** to take place during the third week of **February 2017**. Feel free to mark your calendars accordingly and we will notify you of any changes to those plans.

The IPAC Secretariat Team