IPAC BULLETIN

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QUARTERLY UPDATE OF THE IMMUNIZATION PRACTICES ADVISORY COMMITEE

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WORLD HEALTH ORGANIZATION

A note from the Chair:

Dear colleagues,

Welcome to this IPAC bulletin, which we're preparing in the week following the October SAGE meeting. I was pleased to present to that gathering an update on IPAC's activities, including our July meeting, highlighting our work on the Controlled Temperature Chain, Delivery Technologies (including the measles-rubella micro-array patch), Total Systems Effectiveness, Selective Vaccination in SIAs and the Dose Per Container Partnership, among others. This is publicly available online at the link below:

http://www.who.int/ immunization/sage/ meetings/2018/october/ presentations background docs/ en/

As usual, this SAGE encompassed vaccination of pregnant women self and to watch for the formal a variety of programmatic issues with Ebola vaccines currently SAGE meeting report when it is relevant to IPAC's mandate and used in outbreak response stud- published. constituency. Many presenta- ies. We also heard of the new tions touched on the challenges downloadable, more modular inherent in over-reliance on sup- WHO standards for surveillance plementary immunization activi- of vaccine-preventable diseases, ties (SIAs, campaigns); including and the coordination of global discussion of their expense, the immunization times they fail, and their poten- badged WIISE (WHO Immuniza-

tial to either harm or benefit rou- tion Information System). tine immunization. New approaches to delivery of vaccines in emergencies or where routine services are weak must remain a priority for IPAC to consider; whether this is through finding new models for SIAs or new ways to strengthen RI. SAGE has also asked IPAC to consider the programmatic aspects of responses to vaccine shortages, including the use of the Tropis needle-free injection device for intra-dermal delivery of inactivated poliovirus vaccine.

There was a clarion call from the Global Polio Eradication Initiative's Independent Monitoring Board for new thinking on polio responses, prioritising more integrated and responsive approaches. Integration was a common theme, especially when considering new global strategies and the role immunization can play in working for universal health coverage. I feel that it will be important for IPAC to consider what gains in demand and confidence might be achieved by making on the SAGE website- accessible SAGE also saw some intense dis- immunization service delivery cussion of difficult issues; for ex- more responsive to community ample: what level of scientific preferences and needs. As alevidence is needed to advise ways, these are my own thoughts countries on the minimum effec- on the meeting and I encourage tive schedule for human papillo- you to visit the website and ma virus vaccine in an era of po- check out the presentations and tential supply shortage, or on the background documents for your-

> And... as my term as IPAC Chair comes to a close at the end of November this is the last time I will be writing this note for the Bulletin. I want to record my gratitude to the IPAC secretariat

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A note from the chair (cont'd from page 1)

(especially Anna-Lea Kahn and before her, the fabled Diana Chang Blanc) and WHO IVB staff more generally, acknowledging their inspiring work in the service of vaccinating the world's children; and to my colleagues on IPAC (including observers from various organizations) for so many stimulating and supportive interactions over the past five years. I am delighted to pass the IPAC reins into the capable hands of Dr Kelly Moore; who I believe will serve the Committee excellently as she draws on her deep experience of front-line programme management, high-level advisory committee work, and international engagement.





C. Morgan: Outgoing IPAC Chair



K. Moore: Incoming IPAC Chair

A word from the incoming chair:

To complete the handoff from Dr Chris Morgan, I would like to close this Chair's note by thanking him publicly for his strong and steady leadership of IPAC over the past 4 years. Chris has set a high standard, kindly and steadfastly ensuring broad and constructive input in our discussions and distilling those discussions to their most critical elements for reporting. I will strive to follow his example and thank him for his mentorship thus far. I look forward to serving alongside IPAC's newest members: Dr. Paba Palihawadana, Dr Baoping Yang, and Dr Pape Faye. We will learn more about these new members in the coming months. I wish you all well as we prepare for 2019.

> **Kelly Moore** drkellymoore@yahoo.com

"The IPAC Secretariat is pleased to announce the selection of Dr Kelly Moore from Nashville, Tennessee to serve as the next Chair of IPAC."

IPAC welcomes Dr Kelly Moore to new role

The IPAC Secretariat is very trol and Prevention (CDC) Adviso- Association pleased to announce that follow-ry Committee on Immunization Managers (chair, ing a lengthy internal review pro- Practices (ACIP). Dr Moore re- mittee), NSF-International (Joint cess, during which multiple candi- cently left the TIP which she di- Committee on U.S. Vaccine Stordates were considered, IVB lead- rected for a 14 year tenure and age Equipment Standards) and as ership has confirmed the selec- is presently a Clinical Assistant a member of the International tion of Dr Kelly Moore to serve as Professor of Health Policy at the Association the next Chair of IPAC.

Dr Moore became a member of IPAC in 2016, while she was also serving as Director of the Tennessee Immunization Program (TIP) in the State of Tennessee Department of Health and member of the U.S. Centers for Disease Con-

Vanderbilt School of Medicine Managers. and serves as an advisor and consultant on immunization policy and practice. She has championed evidence-based improvements in end-user vaccine storage and handling at the state and national level with a variety of organizations, including the U.S.

of **Immunization** VSH of **Immunization**

Dr Moore received her medical degree from Vanderbilt Medical School and her Master of Public Health from Harvard School of Public Health. She also served as an EIS Officer with the CDC.

Three new members join IPAC

Kelly Moore on her new role as Committee. his replacement), there will also be new members joining IPAC's ranks. The Secretariat conducted a comprehensive recruitment process during the course of September which culminated in the

Change is in the air for IPAC. review of some very strong can- newest members in the begin-While the Committee must adjust didates and a final decision to ning of October. Brief biographies to new leadership, both across increase the number of new of each will shortly be available IVB (welcoming the new EPI Co- members to be selected to a total on the IPAC page of the WHO ordinator, Dr Ann Lindstrand and of three. The latter decision was website. soon, a new IVB Director, Dr Kate driven by the interest to improve O'Brien) and within the Com- IPAC's geographical diversity, as mittee (bidding a fond farewell to well as increasing the extent of the departing Chair, Dr Chris country programme-based exper-Morgan, and congratulating Dr tise and experience within the

> We are delighted to welcome **Dr** Pape Faye from Senegal; Dr Paba Palihawadana from Sri Lanka; and Dr Baoping Yang from China, who officially became IPAC's



Revising global indicative wastage rates: an initiative for better planning and forecasting vaccine needs - by Rachel Bauquerez

age and to reduce under-5 mor- able cold chain space. tality. Forecasting is an essential element in ensuring that these potent vaccines reach children in need throughout the world by producing and procuring the right quantity of vaccines and delivering them through efficient supply chains until service.

fore the wastage rate also have a country level, and to facilitate with the lowest vaccine wastage, vaccine wastage rates are still

Providing potent vaccines availa- using the most convenient (and used to date to conduct vaccine ble through effective immuniza- available) vaccine presentation forecasts and estimate supply tion supply chains is at the heart that can not only allow the im- needs. Nevertheless, they have of the global health community munization of as many children reached their limits: being the to increase immunization cover- as possible, but match their avail- same for each antigen by availa-

Before 2000, there was limited interest in the issue of vaccine wastage, until the introduction of pentavalent vaccine in 2000, at a cost per dose of \$3.50*. The immunization community started to **A three-step approach towards** realize that considerable savings more tailored wastage rates could be made on vaccine costs As it is factored by countries into by assessing the financial impact both their quinquennial and an- of wastage, which therefore nual forecasting efforts, vaccine needed to be quantified. In the wastage is of paramount im- absence of widespread vaccine portance. The waste and there- wastage monitoring systems at programmes. EPI cost, WHO defined ensuring an optimal coverage, 2002. These estimated indicative

ble presentation for every country, this "one-size-fits all" solution does not reflect the reality of vaccine wastage at country level (and within the country, at various service delivery points).

In order to ensure vaccines are available at all times to immunize children and that immunization programmes are managed at the right cost, it is fundamental to revisit global indicative wastage rates, which can benefit all stakeholders. considerable impact on the im- estimation of vaccine needs and Immunization supply chain experts indicative are now confident that tailored managers are responsible for vaccine wastage rates per spe- wastage rates per vaccine for each finding that delicate balance of cific vial size and vaccine in country is within reach, although it may take time to achieve this objec-

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Since 2005, WHO and its partners have worked tirelessly to improve the support they provide to countries in forecasting their needs and help them get a more accurate picture of their wastage rates. In 2016, method is that wastage rate calcula- veloped. The tool will still require and equity. tion and its accuracy is a continuous further testing and the aim of turn-

data reporting (after the immuniza- cation will be explored in 2019. tion sessions) would allow more granularity and therefore more accurate wastage rates.

effort, as continuous a posteriori ing the spreadsheet into a web appli-

This proposed approach, as well as the tool, will be presented to the immunization supply chain experts Recently, WHO pursued this effort at the 5th Vaccine Management and and a set of intermediary steps have Handling Workshop in December WHO committed to update global been developed to refine global in- 2018 for further feedback. IPAC indicative wastage rates. Based on dicative wastage rates based on ex- members will have the opportunity country studies, it was demonstrat- isting country data. Some steps will to review and make further recomed that wastage rate follows a bino- run in parallel with other,s and the mendations at its next 2019 meetmial distribution. This model, last work started in 2018. It is expected ing, on assessing how this approach presented at the October 2015 IPAC that 2019 will be the year when the and new tool could contribute to meeting, would help countries to first results should be visible. In addi- more effective immunization promore accurately estimate their wast- tion, a tool (an Excel matrix) to cal- grammes, as well as contributing to age rate, based on specific data col- culate the wastage rate at any level the Global Vaccine Action Plan lection. A key aspect of this new of the supply chain is now being de- (GVAP) goals for improved coverage

* UNICEF Supply Division Data

Update on WHO's Total System Effectiveness (TSE) work stream — by Siobhan Botwright (TSE Project Manager)

country consultations culminated in ing key recommendations from order to inform product choice. a TSE Steering Committee meeting IPAC.

during September 2019, discuss the outcomes from the **TSE**

country



Break-out session at TSE Steering Committee Meeting

tations and to propose a scope for TSE moving forward. The meeting was attended by TSE Steering Committee and Modelling Working Group members, in addition to representation from pilot country focal points. At the close of the meeting, it was recommended that TSE continue to focus on supporting product selection decisions in immunisation, and that TSE should give coun-

Work has continued in developing a TSE toolkit, composed of a main decision-support tool that guides the user through steps of the process for choosing a vaccine product. A preliminary tool based on the Public Health England (PHE) Prioritisation Framework was successfully trialled in Mali (August 2019). Alongside the main decisionsupport tool, a key element of the

Since review by IPAC in July 2018, tries a voice to influence global sup- TSE toolkit will be a TSE immunisathe TSE team has conducted further ply and R&D of vaccines and deliv-tion barriers analysis tool, which workshops in Mali and Thailand, ery technologies. Specifically for supports a focal point within Miniswhich have provided opportunities country-level decisions, the group try of Health to collate and synthefor further learning and optimisa- concluded that the focus should be sise available country-level infortion of the TSE concept and deci- to develop flexible tools that can be mation on barriers to immunisation sion-support process. The initial adapted to country context, follow- and health systems constraints, in

> We are currently looking for a consultant to undertake the preliminary work for the TSE immunisation barriers analysis tool and would be very grateful for any suggestions (Contact Siobhan Botwright at botwrights@who.int to request a copy of the TOR or to suggest a potential candidate for this consultancy).

> In 2019, TSE will place a greater focus on collaboration with WHO regional offices to develop and implement TSE. There will be a concurrent increase in focus on the supply/R&D work stream for TSE, to show proof-of-principle for mechanisms to synthesise country product priorities at the regional and global levels, and to effectively communicate LMIC priorities for existing and future pipeline products.

IPAC bids farewell to Chris Morgan

It's with a heavy heart that we must part ways with Dr Chris Morgan who has served IPAC not only as our fearless leader for the last five years, but as a very active and invaluable member. Chris joined IPAC in August 2011 and was named Chair in November 2013, taking over from Shelley Deeks. In order to be able to make time for IPAC, he actually changed dissertation topics for his ongoing PHD work, to make it more relevant to



Chris Morgan & Ann Lindstrand

Chris has never missed an IPAC meeting in his 7 years of service, having attended 9 meetings, including 5 as Chair, and plenty more WHO working group meet-

ings on behalf of IPAC, including IVIRAC, and even VIPS next month. He has also contributed generously to 15 issues of the Quarterly IPAC Bulletin!

So it was with genuine gratitude that Chris was presented a plaque honouring his service by EPI Coordinator, Ann Lindstrand, on behalf of the entire WHO IVB Department, as well as the IPAC Secretariat and Committee. We're also pleased to reassure you that this is not the last IPAC will see of him. Chris will continue to serve on both the VIPS Steering Committee and the CTC Working Group, both of which have strong ties with IPAC. So this is less of a "farewell" and more like a "Thanks and see you around, Chris!"

Upcoming Meetings & Events:

- ⇒ 8-9 Nov 2018 —Geneva, Switzerland:
 VIPS Steering Committee meeting
- ⇒ 15 Nov 2018 —Geneva, Switzerland:
 MI4A Advisory Group meeting
- ⇒ 26-27 Nov 2018 —Barcelona, Spain: HPV Coverage Methodology working meeting
- ⇒ 26-30 Nov 2018 Cape Town, S.Africa: Global Rotavirus and Pediatric Diarrhea and Invasive Bacterial disease surveillance Meeting
- ⇒ 28-29Nov 2018 —Geneva, Switzerland: GAVI Board Meeting
- ⇒ 5–6 Dec 2018 —Geneva, Switzerland: Global Advisory Committee on Vaccine Safety (GACVS)
- ⇒ 5-7 Dec 2018—Copenhagen, Denmark: WHO/UNICEF Vaccine Management and Handling Workshop

A final word from the IPAC Secretariat

Mark your calendars: new IPAC meeting dates have been set! The next IPAC meeting is scheduled to take place on **10-13 June 2019** at WHO Headquarters (Salle A) in Geneva, Switzerland.

I also would like to inform you that it has also been decided to reduce the frequency of the IPAC Bulletin. This will consequently be the final issue of 2018 and as of next year, this Bulletin will become biannual, with issues released in April and October. I therefore take this opportunity to wish you a pleasant end of the year and a fruitful start to 2019, during which I look forward to plenty more interaction and collaboration.

The IPAC Secretariat Team