New Vaccine Post-Introduction Evaluation (PIE) Tool

Immunization, Vaccines and Biologicals



World Health Organization

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Abbreviations and acronyms

AD syringe	Auto-Disable Syringe
AEFI	Adverse Events Following Immunization
BCG	Bacille Calmette–Guérin (vaccine)
CDC	Centers for Disease Control and Prevention
cMYP	Comprehensive Multiyear Plan
DTP	Diphtheria-Tetanus-Pertussis (vaccine)
EPI	Expanded Programme on Immunization (WHO)
GAVI Alliance	formerly Global Alliance for Vaccines & Immunizations
HCW	Health-Care Worker
HepB	Hepatitis B
Hib	Haemophilus influenzae type b
ICC	Interagency Coordinating Committee
IEC	Information, Education and Communication
MDVP	Multi-dose Vial Policy (WHO/EPI)
MoH	Ministry of Health
NGO	Nongovernmental Organization
OPV	Oral Polio Vaccine
PCV	Pneumococcal Conjugate Vaccine
PCV7	7-Valent Pneumococcal Conjugate Vaccine
PIE	Post-Introduction Evaluation
UNICEF	United Nations Children's Fund
VVM	Vaccine Vial Monitor
WHO	World Health Organization
YF	Yellow Fever

Acknowledgements

This Post-Introduction Evaluation tool has been derived from existing materials, reports and experiences from hepatitis B (HepB) vaccine evaluations globally, and from HepB and *Haemophilus influenzae* type b (Hib) vaccine evaluations in the WHO Regional Offices for Africa and Europe. We would like to thank those who contributed to these evaluations. The tool also draws heavily on other existing vaccine management and related documents from the World Health Organization (WHO) and United Nations Children's Fund (UNICEF), and we also thank all those involved in the preparation of these documents. In particular we acknowledge the contributions from Gavin Grant, Terri Hyde and Linda Ojo Centers for Diseases Control and Prevention (CDC) and Rosalyn O'Loughlin London School of Hygiene and Tropical Medicine (LSHTM). The tool was used in four countries during 2007 and 2008, and this experience resulted in frequent revision of the document. We would like to thank all the participants in the evaluations in Ethiopia, Liberia, Sierra Leone and Ukraine; in particular for their valuable comments on improving the tool. Similarly, we would also like to thank those reviewers who dedicated their valuable time to providing comments and suggestions on how to improve the tool.

Preface

The WHO recommends that all countries which have introduced a new vaccine should evaluate the impact on their vaccination system. Until now, this evaluation consisted of a checklist, which was considered by some to be too limited to identify problems and provide useful information to the country. This new PIE tool is more comprehensive and is akin to a mini-review of WHO's Expanded Programme on Immunization (EPI). Because EPI reviews are typically conducted on a three to five year basis, a smaller review following the introduction of a new vaccine can help with timely identification of problems and can highlight strengths of introducing a new vaccine to the EPI system. Such a review, called a Post-Introduction Evaluation (PIE), is normally conducted 6–12 months following introduction.

This post-introduction evaluation tool is designed, to assist immunization managers in countries that have introduced a new or underutilized vaccine to provide a systematic method for evaluating the implementation of the introduction, and its impact on the existing immunization system in the country. Such evaluation will allow problems associated with the introduction of the vaccine to be identified early enough to be corrected and documented, so that they can be prevented in future introductions of new vaccine(s) and shared with other countries to prevent similar problems, and also to indicate the ease or complexity of the vaccine introduction. This document may also be useful for institutions or other professionals with similar assignments and/or objectives.

This post-introduction tool is not intended to facilitate disease surveillance or monitoring of the vaccine's impact on disease burden. Specific tools for this purpose are available for rotavirus vaccine, and other tools for monitoring the impact of Hib and pneumococcal vaccines on *Haemophilus influenzae* type b and *Streptococcus pneumoniae* disease will be available from WHO in mid 2010.

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