



unicef for every child

Vaccine Procurement Practitioners Network – Webinar

How to build an investment case for immunisation – Discussion with Egypt, Morocco and Tunisia



AGENDA

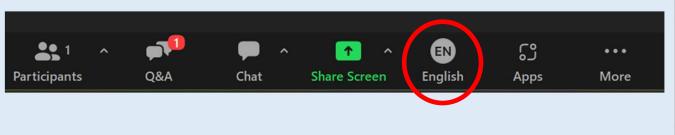
Time	Topic
2:00pm GMT+1 (2 mins)	Welcome and introduction
2:02pm GMT+1 (5 mins)	How to create and use an investment case for new vaccine introduction
2:07pm GMT+1 (20 mins)	Panel discussion
2:27pm GMT+1 (15 mins)	Questions & Answers
2:42pm GMT+1 (3 mins)	Closing remarks
2:45pm GMT+1	End & Further <u>E-discussion on the VPPN</u>

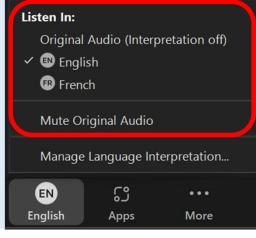
ZOOM FUNCTIONS

Interpretation

Click on the Language button and choose the language you wish to hear.
 For this webinar, English or French are available.

To hear the interpreted language only, click 'Mute Original Audio'.

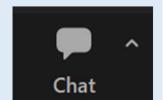




ZOOM FUNCTIONS

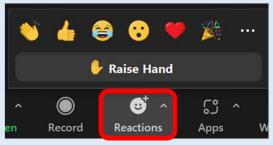
Chat

Use the Chat feature:



- For all your questions (regarding the topic or the logistics)
- To introduce yourself (name, organisation, country)

During the Q&A, you can also raise your hand to ask a question.



RECORDING AND SHARING ON THE VPPN

Recording

Knowledge Sharing

These sessions are recorded and your attendance is consent to be recorded.

The presentations and recording will be shared on the <u>Vaccine</u>

<u>Procurement Practitioners</u>

<u>Network (VPPN)</u>.

INTRODUCTION

Key Learning Objectives

- Share key steps, challenges and best practices regarding the vaccine introduction process
- Provide peer-to-peer and expert knowledge on to strengthen capacity on how to build an investment case for immunisation
 - Answer questions on sustainable financing

INTRODUCTION

Our panellists today

Egypt:

- Dr. Mohammad Abdelfattah

 Undersecretary for Preventive Affairs,

 Ministry of Health and Population
- Dr. Hesham Magdy Medical Epidemiologist, Ministry of Health and Population

Morocco:

Dr. Mohammed Benazzouz
 Head of the National Immunisation
 Programme, Ministry of Health

Tunisia:

Dr. Mahrez Yahyaoui
 Head of the National Immunisation
 Programme, Ministry of Health

UNICEF:

Ulla Kou Griffiths
 Senior Adviser, UNICEF Programme
 Group

Moderator:

Diana Kizza
 Health Specialist, UNICEF Middle East
 and North Africa Regional Office

HOW TO
CREATE AND
USE AN
INVESTMENT
CASE FOR
NEW VACCINE
INTRODUCTION



Decision-making for a new vaccine introduction Key factors to consider

New vaccine introduction agreed 1. Enabling environment Social factors 2. Studies 3. Financing: Burden of disease Funding sources > Economic Costs Forecasting factors Vaccine characteristics Sustainability Programmatic characteristics Political factors Regulatory/ Institutional factors 4. NITAGs recommendations: 5. Supply: Stakeholders/ Independent experts Availability Interest groups Procurement

Definitions

INVESTMENT CASE

- ➤ Useful for advocacy
- Contains an economic evaluation and broader topics:
 - Programmatic issues
 - Fiscal space
 - Rights-based and equity arguments
- ➤ Investment cases often include a costbenefit analysis or return on investment
 - This involves attaching a monetary value on morbidity and mortality, which is methodologically challenging

Ref: The UNICEF public finance toolkit

https://www.unicef.org/documents/public-finance-toolkit

ECONOMIC EVALUATION

- Comparative analysis of alternative courses of action in terms of both their costs and their consequence
 - For instance, with and without a new vaccine

Three types of economic evaluation

Туре	Cost	Effect	
	measurement	measurement	
Cost-effectiveness	\$	Natural units (cases,	
analysis		life years)	
Cost-utility	\$	Healthy years	
analysis		(QALYs/DALYs)	
Cost-benefit	\$	\$	
analysis			

Examples of investment cases





ScienceDirect

Contents lists available at sciencedirect.com journal homepage: www.elsevier.com/locate/jval

Systematic Literature Review

A Scoping Review of Investment Cases for Vaccines and Immunization Programs



So Yoon Sim, MA, MSPH, Mark Jit, PhD, 2.3 Dagna Constenla, PhD, David H. Peters, MD, DrPH, Raymond C.W. Hutubessy, PhD 4.6

¹Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA; ²London School of Hygiene & Tropical Medicine, London, UK; ³Modelling and Economics Unit, Public Health England, London, UK; ⁴Initiative for Vaccine Research, Department of Immunization, Vaccines and Biologicals, World Health Organization, Geneva, Switzerland

- 24 vaccine investment cases identified between 1980-2017
- 21 global analyses and only 3 country specific(2 from Bangladesh, 1 from China)
- Audience: mainly donors and 'all stakeholders'
- ➤ 14 for licensed vaccines and 5 for pipeline vaccines (TB, malaria, ETEC)

Country specific

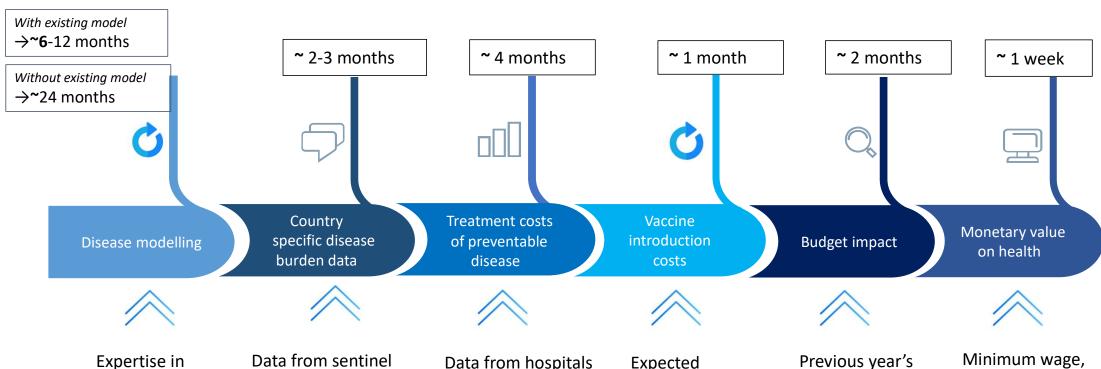
Cost-effectiveness and budget-impact of sustaining Haemophilus influenzae type b, <u>rotavirus</u> and pneumococcal vaccination in the Sudan during and after transition from Gavi support

18th December 2020

Sudan investment case: Key findings

- Impact of Hib, rotavirus and PCV:
 - Prevent ~80,000 deaths and ~US\$ 48 million disease treatment costs during 2022-2031
- Cost to the Government of sustaining the vaccines:
 - US\$ 415 million in procurement costs during 2022-2031, assuming Sudan transitions from Gavi support in 2027
- After subtracting savings from averted healthcare:
 - ~US\$22 million costs in 2022, increasing to around \$45 million annually during period of self-financing (2027-2031)
- When converting benefits to monetary values:
 - Total value estimated as \$12 billion over the ten-year period
 - Increases to \$46 billion when using a higher estimate of the "Value of Statistical Life"

Time & resources needed to develop an investment case



Expertise in infectious disease modelling Data from sentine surveillance sites, routine health information systems, and hospital records

Data from hospitals and outpatient clinics

Expected vaccine prices

budgets & expenditure records

Minimum wage, GNI per capita, value of statistical life table

How to best use an investment case for decision-making

- Engage relevant decision makers during the process of developing the investment case
- ➤ Gather disease burden and cost data from local sources that decision makers recognize
- Engage local experts/academics in the process
- Ensure advocacy is linked to the budgetary process
- Link to any Health Technology Assessment organization in the country

The decision-making process is complex and political

- > Evidence influences decision makers at different points, which cannot be predicted
- It is often important to look for the right moments to advocate



Question 1

Could you briefly describe the status of your immunisation programme?

What vaccines have you introduced over the last 12 months?

What vaccines are you planning to introduce in the near future?

Status of Immunisation Programme

	EGYPT	MOROCCO	TUNISIA	
National Immunization Schedule	Bivalent oral polio vaccine and Salk vaccine Pentavalent vaccine against diphtheria, tetanus, pertussis (whooping cough), hepatitis B and Haemophilus influenzae type b Measles, mumps and rubella (MMR)	13 vaccines • BCG • Hepatitis B • OPV • DTwP-HepB-Hib • IPV • MR • DTP • Td	 11 vaccines BCG Hepatitis B Pentavalent Polio (injectable and oral) PCV Measles and rubella (MR) Hepatitis A 	
Status of NVI (HPV, PCV, RV)	 HPV and RV – no timeline for introduction, priority is RV and then HPV PCV – 2024 	 PCV – 2010 RV – 2010 HPV – 2022 PCV 10 to PCV 13 – 2023 	 PCV – 2019 HPV – academic year 2024/2025 RV – no timeline for introduction 	
Planned vaccine introductions		HexavalentMMRHepatitis A	 Tetraxim for 6-year-olds DTPa for school-age children and pregnant women HPV – 2024/2025 DTCa-VPI for 6-year-olds – 2024/2025 dTCa for pregnant women – 2024 	

Question 2

What process do you go through to introduce a new vaccine? Using your latest vaccine introduction as a concrete example, could you highlight:

- The process' main recurring steps?
- The challenges you usually face?
- The best practices you have found usually work well?

Question 3

Do you complete an investment case for a new vaccine introduction?

- If yes, what is it useful for and what are the key requirements for a good investment case?
- If no, would an investment case or other types of evidence be useful to introduce a new vaccine?

Question 4

How can UNICEF support you when talking about new vaccines introduction?

Would a process framework or more sharing of other countries' experience be helpful?

QUESTIONS & ANSWERS

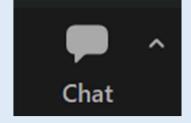


QUESTIONS & ANSWERS

The floor is open for your questions...

...Raise your hand to ask a question or write it in the chat.





CLOSING REMARKS

- Through regional TA, UNICEF is committed to supporting MICS across the region to reverse backsliding in vaccine coverage and to accelerate the introduction of new vaccines. For more information please contact: dkizza@unicef.org or smallm@unicef.org
- Join us on the <u>Vaccine Procurement Practitioners Network</u>'s platform to continue the discussion and share any other question you might have:

→ Link to E-discussion

THANK YOU!



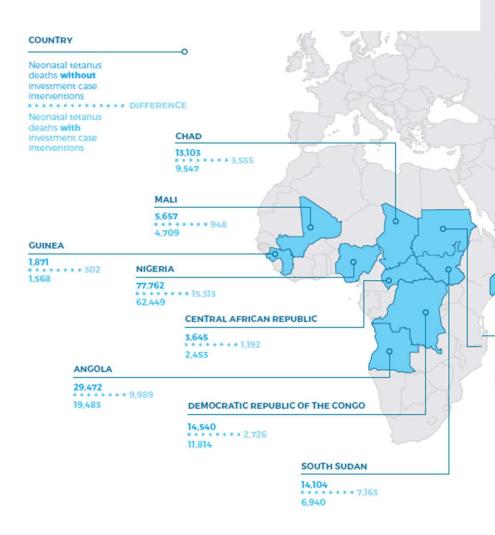




ANNEXES



MNTE investment case: Key findings



TOTAL NEONATAL TETANUS DEATHS

267,491 WITHOUT INVESTMENT CASE

193,474 WITH INVESTMENT CASE

9,550

PAPUA

NEW GUINEA

PAKISTAN

48,758

1,816 SOMALIA 22,315 10,411

SUDAN

2,401

5,669

	NO INVESTMENT CASE	INVESTMENT CASE	DIFFERENCE
Costs for 2018-2020	0	US\$199,562,944	US\$199,562,944
Neonatal tetanus deaths 2018-2027	267,491	193,474	74,017
Neonatal tetanus discounted deaths 2018-2027	242,455	175,833	66,622
Cost per death averted			US\$2,696
Cost per discounted death averted			US\$2,995

Examples of investment cases with UNICEF TA

Country specific

Cost-effectiveness and budget-impact of sustaining Haemophilus influenzae type b, <u>rotavirus</u> and pneumococcal vaccination in the Sudan during and after transition from Gavi support

18th December 2020

Contracted institution

London School of Hygiene and Tropical Medicine (LSHTM)

Funding

UNITED NATIONS CHILDREN'S FUND (UNICEF) MENARO - LRPS-2018-9140442

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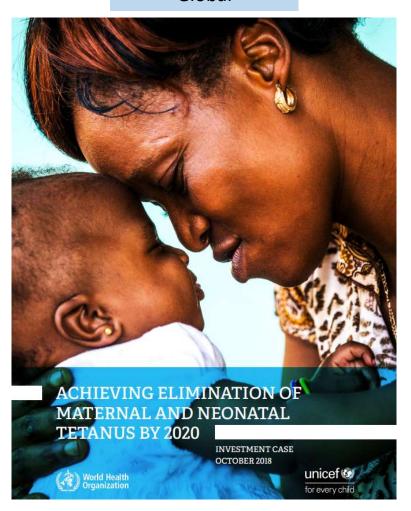
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Global



Yoon Sim et al, 2019

> Objectives of investment cases

- · Provide information for decision-making
- Advocate for specific goal (e.g. global eradiction, establishment of Gavi financing, increase private sector investment).
- Outline strategic plan for introduction of new vaccines

Outcomes reported

- Burden of disease: defines the magnitude of the problem
 - Deaths
 - Cases
 - · Economic burden (direct and indirect costs)
- Cost of investment (from payer perspective)
 - Vaccine price
 - Quantity demanded
 - Delivery costs (sometimes included): cold chain; training and supervision; vehicles and transport; social mobilization and awareness raising; surveillance; monitoring and evaluation; waste management; overhead costs.

Impact of investment

- Health impact: Deaths averted
- Economic impact:
 - Incremental cost-effectiveness ratios (ICER)
 - Benefit-cost analyses (BCA)
 - Broader economic benefits mostly qualitative. E.g reduction of socioeconomic inequalities
- Other considerations for implementation of investment
 - Health system capacity: immunization programme capacity; human resources; cold chain; transport; need for integration
 - · Vaccine financing landscape

The decision-making process is complex and political

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New vaccine adoption: qualitative study of national decision-making processes in seven low- and middle-income countries

H E D Burchett, * S Mounier-Jack, * U K Griffiths, * R Biellik, * P Ongolo-Zogo, * E Chavez, * H Sarma, 5 J Uddin, 5 M Konate, 4 Y Kitaw, 4 M Molla, 6 S Wakasiaka, 7 L Gilson * 1,8 and A Mills * 1

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16 February 2012

As more new and improved vaccines become available, decisions on which to adopt into routine programmes become more frequent and complex. This qualitative study aimed to explore processes of national decision-making around new vaccine adoption and to understand the factors affecting these decisions.

Ninety-five key informant interviews were conducted in seven low- and middle-income countries: Bangladesh, Cameroon, Ethiopia, Guatemala, Kenya, Mali and South Africa. Framework analysis was used to explore issues both within and between countries.

- Evidence influences decision makers at different points, which cannot be predicted
- Who is involved in the process is critical