

ANNETTE OZALTIN, KELSEY VAUGHAN, MICHAELA MALLOW

WEBINAR 1 – OCTOBER 30, 2018

How to Use the Immunization Delivery Cost Catalogue (IDCC): Presentation and Q&A session

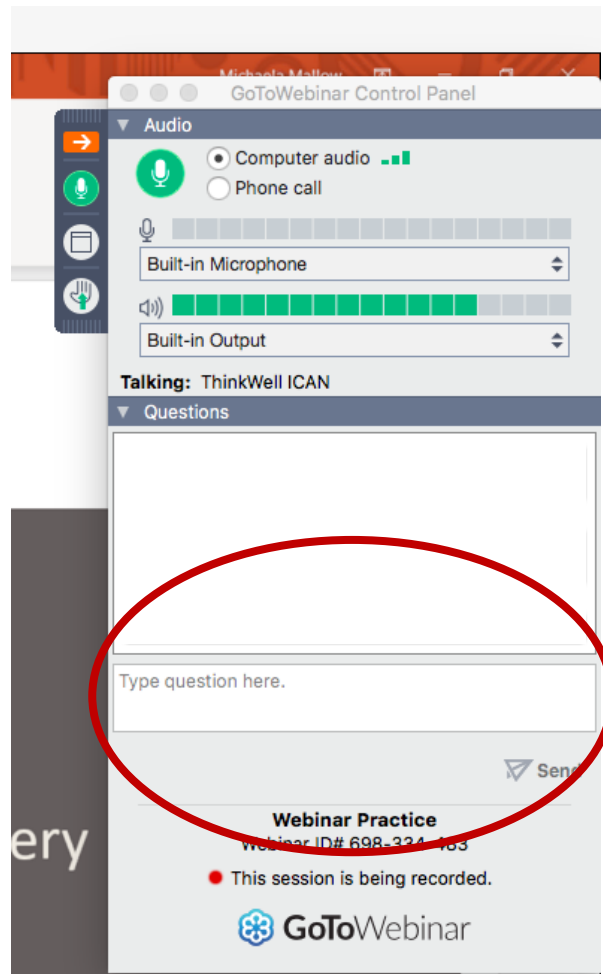
THINK

PRESENTATION OUTLINE

- **Overview of Immunization Costing Action Network (ICAN)**
- **Immunization Delivery Cost Catalogue (IDCC)**
 - Methods
 - Findings
- **Using the IDCC: Web and Excel Demonstration**
- **Using the IDCC**
 - The Importance of Comparable Data
 - Pooled Immunization Delivery Unit Cost Estimates (Cost Ranges)
 - Main Takeaway Messages
- **Q&A**

GOTOWEBINAR CONTROL PANEL

Desktop version



Mobile version



Poll: Where are you joining from?

The Immunization Costing Action Network (ICAN)

ICAN OBJECTIVES

ThinkWell, JSI, and SDC aim to help planners, immunization managers, and other decision-makers access, understand, and use evidence on the cost of delivering vaccines.

To increase the visibility, availability, understanding, and use of evidence on the cost of delivering immunization services

To build country capacity around generation and use of cost evidence to work towards sustainable and predictable financing for vaccine delivery

- Enhanced resources to facilitate evidence-based planning and decision-making
- Improved understanding of how to influence country-level policy/planning
- Predictable and sustainable immunization financing
- More efficient, equitable, and higher-performing immunization programs

THINKWELL



ICAN SCOPE OF WORK

1. Global Research and Analytics

Immunization delivery cost data is globally accessible and easy to interpret

- Systematic review on immunization delivery costs in LMICs
- Unit cost data repository (I.e. IDCC)
- Cost ranges
- Companion interpretive tools and products

2. Country Generation of Cost Evidence

Country research institutions lead immunization delivery costing studies

- Problem definition approach to identify research question(s)
- Research method design
- Data collection and analysis
- Joint interpretation workshops
- Reports, papers, policy briefs

3. Country Translation and Use of Cost Evidence

Country planners and decision makers understand and use delivery cost evidence

- Mapping of decision space, planning cycle timelines, key stakeholders
- Joint interpretation workshops and strategy development for use
- Dissemination of cost evidence at key moments
- Country case studies

4. Learning and Knowledge

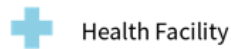
Country capacity is developed for generating, interpreting, and using cost evidence
Country and global findings are widely disseminated
There is greater knowledge about what works in evidence to policy and practice

Immunization Delivery Cost Catalogue (IDCC) – Methods

GLOBAL ANALYTICS: SYSTEMATIC REVIEW AND IMMUNIZATION DELIVERY COST CATALOGUE (IDCC)

— Systematic review to answer the question:

- What are the unit costs of vaccine delivery across different LMICs and through a variety of delivery strategies?



Health Facility



Outreach/Mobile



Child Health Day/Week



School



Campaign



Multiple Strategies

— ICAN definition of delivery costs:

- The costs associated with delivering immunizations to target populations, exclusive of vaccine costs.
- Delivery costs may include any or all of the following cost categories:



Paid and volunteer resources



Per diem and travel allowances



Cold chain equipment and overheads



Program management



Training and capacity building



Social mobilization and advocacy

GLOBAL ANALYTICS: SYSTEMATIC REVIEW AND IMMUNIZATION DELIVERY COST CATALOGUE (IDCC)

- **Peer-reviewed articles/reports and grey literature**
 - Published between **January 2005** and **April 2018**
 - **Over 15,000** articles/reports considered
 - **211** data records which include one or more unit costs, extracted from **62** articles/reports
 - **Over 400** immunization delivery unit costs, presented in 2016 USD, such as cost per:
 - 1) Dose
 - 2) Capita
 - 3) Full immunization
 - a) Full immunization of a vaccine (e.g., 3 doses HPV)
 - b) Fully immunized child (e.g., 1 dose BCG, 3 doses DTaP-IPV-Hib-HepB, 2 doses PCV, 2 doses Rota, 1 dose MR)
 - 4) Person in the target population
- **7** pooled immunization delivery unit cost estimates (i.e., cost ranges)

IMMUNIZATION DELIVERY COST CATALOGUE (IDCC)

AVAILABLE AT IMMUNIZATIONECONOMICS.ORG/ICAN

[DOWNLOAD EXCEL IDCC](#)
[GO TO METHODOLOGY](#)
[DOWNLOAD SUMMARY REPORT](#)
[GO TO DELIVERY UNIT COST ESTIMATES](#)

IMMUNIZATION DELIVERY COST CATALOGUE (IDCC) - WEB VERSION

Last updated April 2018

Includes articles/reports from January 2005 – January 2017

Recommended citation: Immunization Costing Action Network (ICAN). 2018. *Immunization Delivery Cost Catalogue*. Washington: ThinkWell.

Select Countries and Characteristics (Filter Tool)

Country	Region	Income level	Vaccine	Delivery strategy
<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> All
<input type="checkbox"/> Bangladesh	<input type="checkbox"/> East Asia and Pacific	<input type="checkbox"/> Low income	<input type="checkbox"/> BCG	<input type="checkbox"/> Campaign
<input type="checkbox"/> Benin	<input type="checkbox"/> Europe and Central Asia	<input type="checkbox"/> Lower middle income	<input type="checkbox"/> DT	<input type="checkbox"/> Child health day/week or national immunization day/week
<input type="checkbox"/> Bhutan	<input type="checkbox"/> Latin America and Caribbean	<input type="checkbox"/> Upper middle income	<input type="checkbox"/> DTP	

[Reset all](#)

Your Selection Summary

Total records: **192**
 Records selected: **192**
 Number of countries: **31**
 Number of delivery strategies: **7**

Your Selections

Countries: All
 Regions: All
 Country income level: All
 Vaccines: All
 Delivery strategies: All

Your Records

Show **10** records

[Download Your Dataset](#)

Search:

Country	Region	Country income level	Vaccines costed	Delivery strategies	Target delivery population	Economic, financial, or fiscal costs	Full or incremental costing	Startup and / or recurrent / ongoing costs	Excluding Vaccine Cost (2016 USD)			
									Cost per capita	Cost per dose	Cost per person in target population	Cost per fully immunized child *
<input checked="" type="radio"/> Bangladesh	South Asia	Low income	OCV	Campaign	Other: cholera high-risk individuals (excluding under 1s and pregnant women)	Financial	Full	Both introduction/startup and recurrent/ongoing	---	\$0.99	---	\$2.13
<input checked="" type="radio"/> Bangladesh	South Asia	Low income	OCV	Campaign	Other: cholera high-risk individuals	Economic	Full	Both	---	---	---	\$2.18

Using the IDCC: Web and Excel demonstration

What are the delivery costs of
HPV in Sub-Saharan Africa
using non-facility-based
delivery strategies?

TIPS FOR USING THE IMMUNIZATION DELIVERY COST CATALOGUE (IDCC)

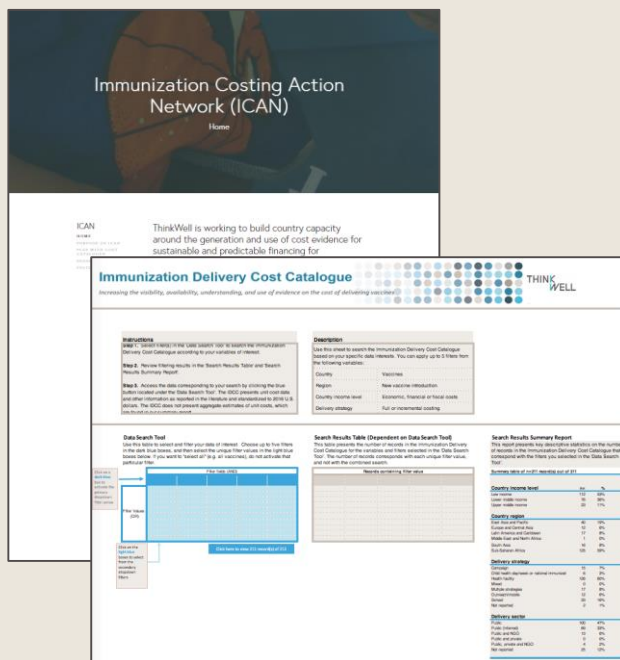
AVAILABLE AT IMMUNIZATIONECONOMICS.ORG/ICAN

- There are known performance issues in Internet Explorer, so please use another browser
- If you can't see the entire width of the catalogue (i.e. a scroll bar appears at the bottom of the web catalogue), change your browser's zoom (i.e. zoom out)

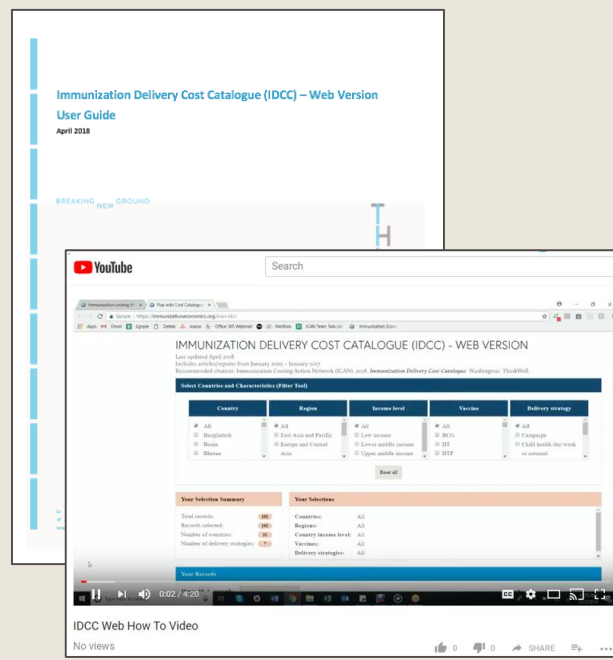
COMPANION PRODUCTS

AVAILABLE AT IMMUNIZATIONECONOMICS.ORG/ICAN

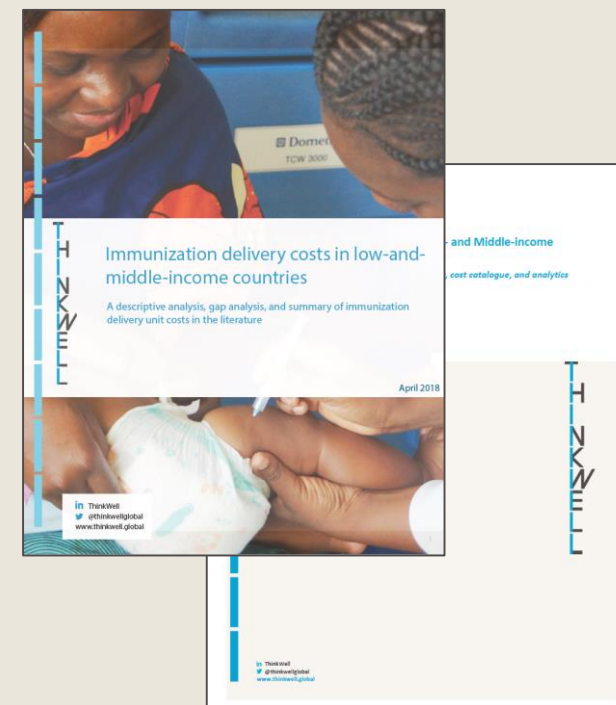
IDCC (web- and Excel-versions)



User guides and how-to videos

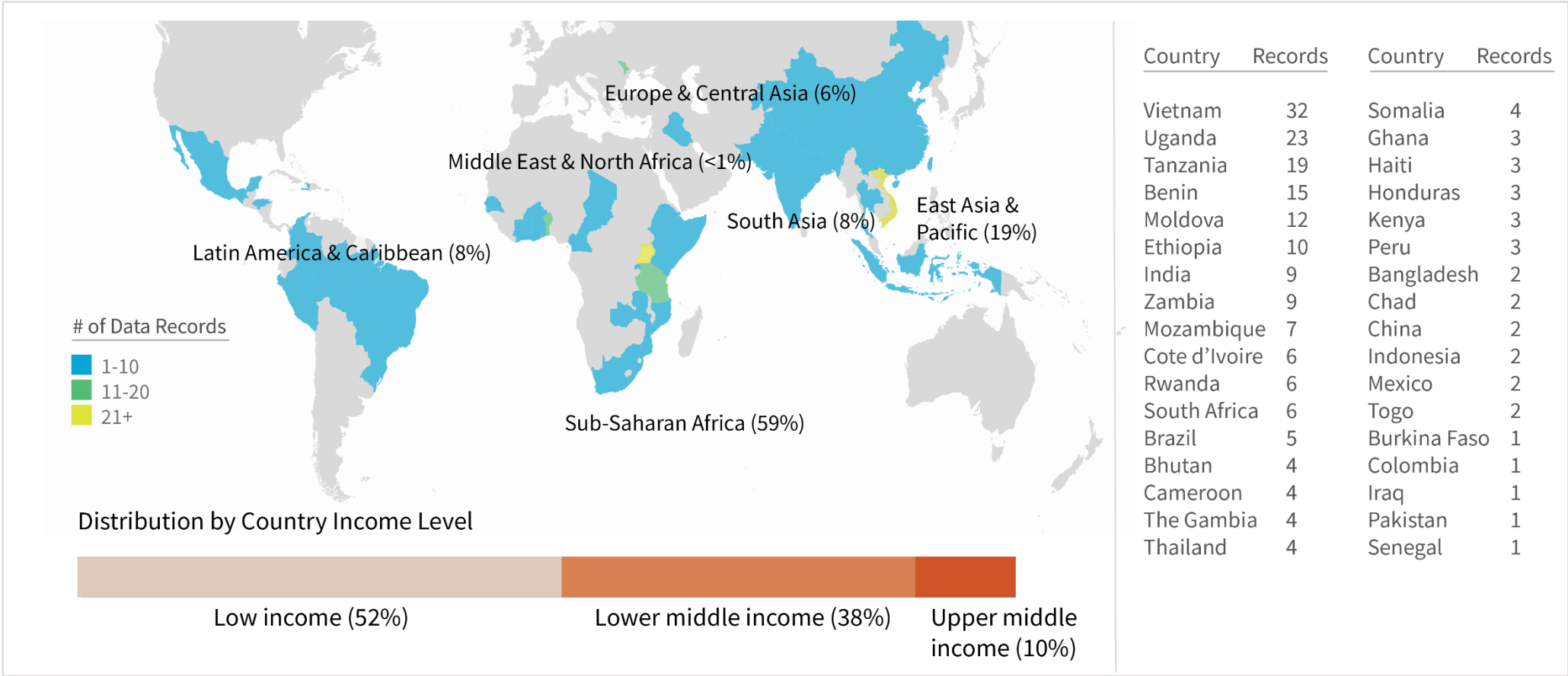


Summary report and methodology note

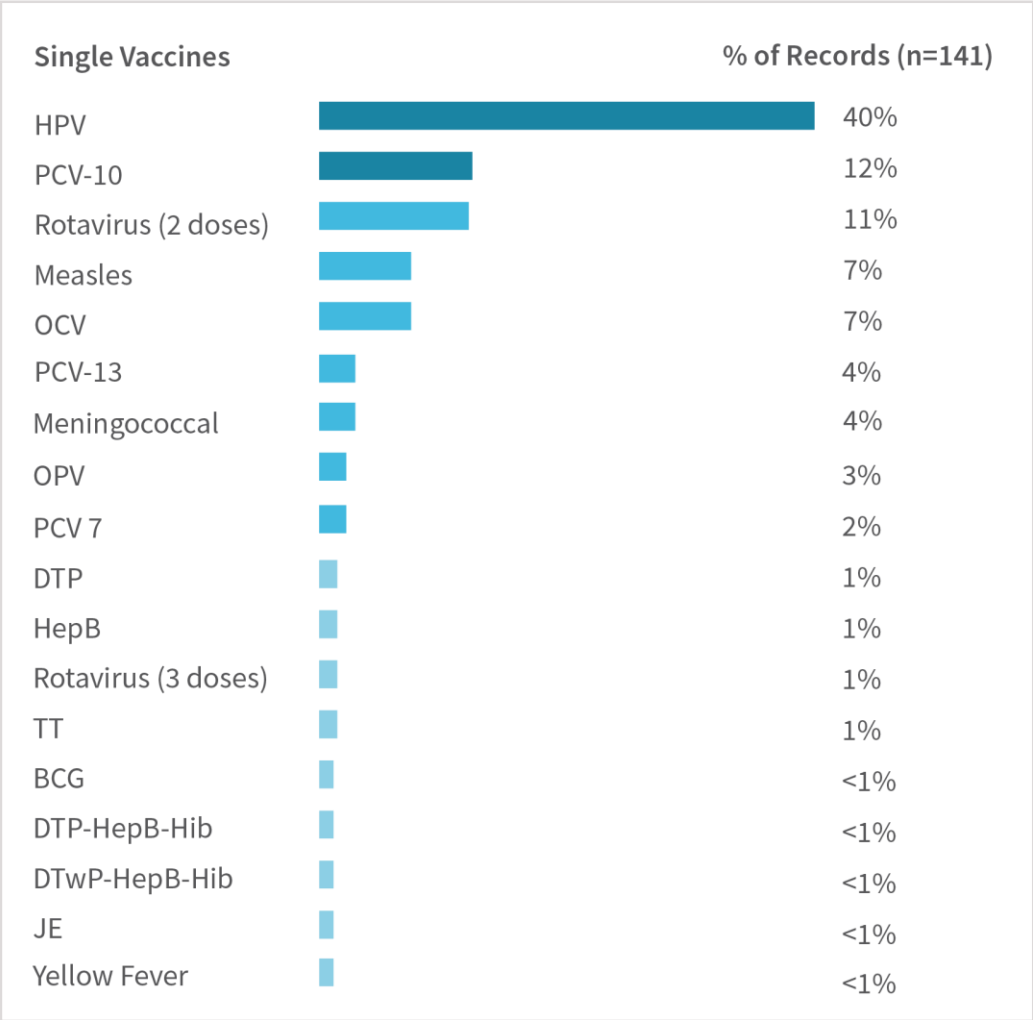


Immunization Delivery Cost Catalogue (IDCC) – Findings

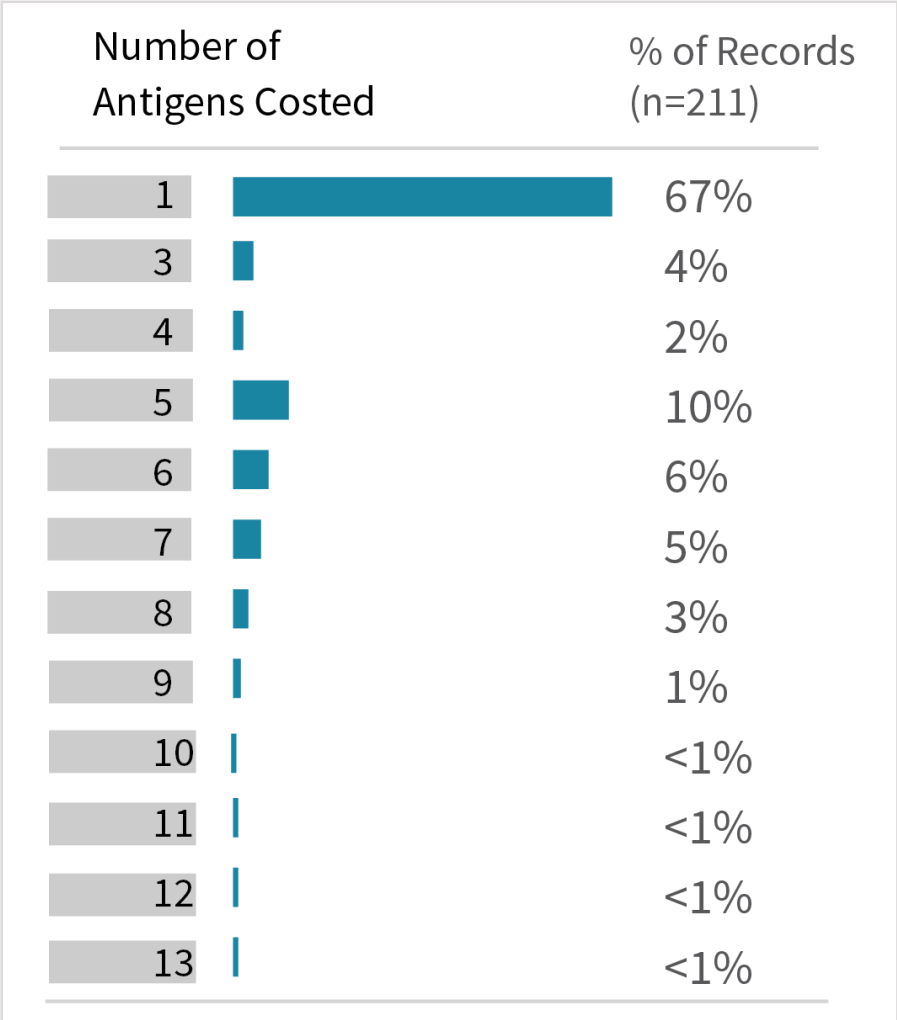
1. Geographic scope of data

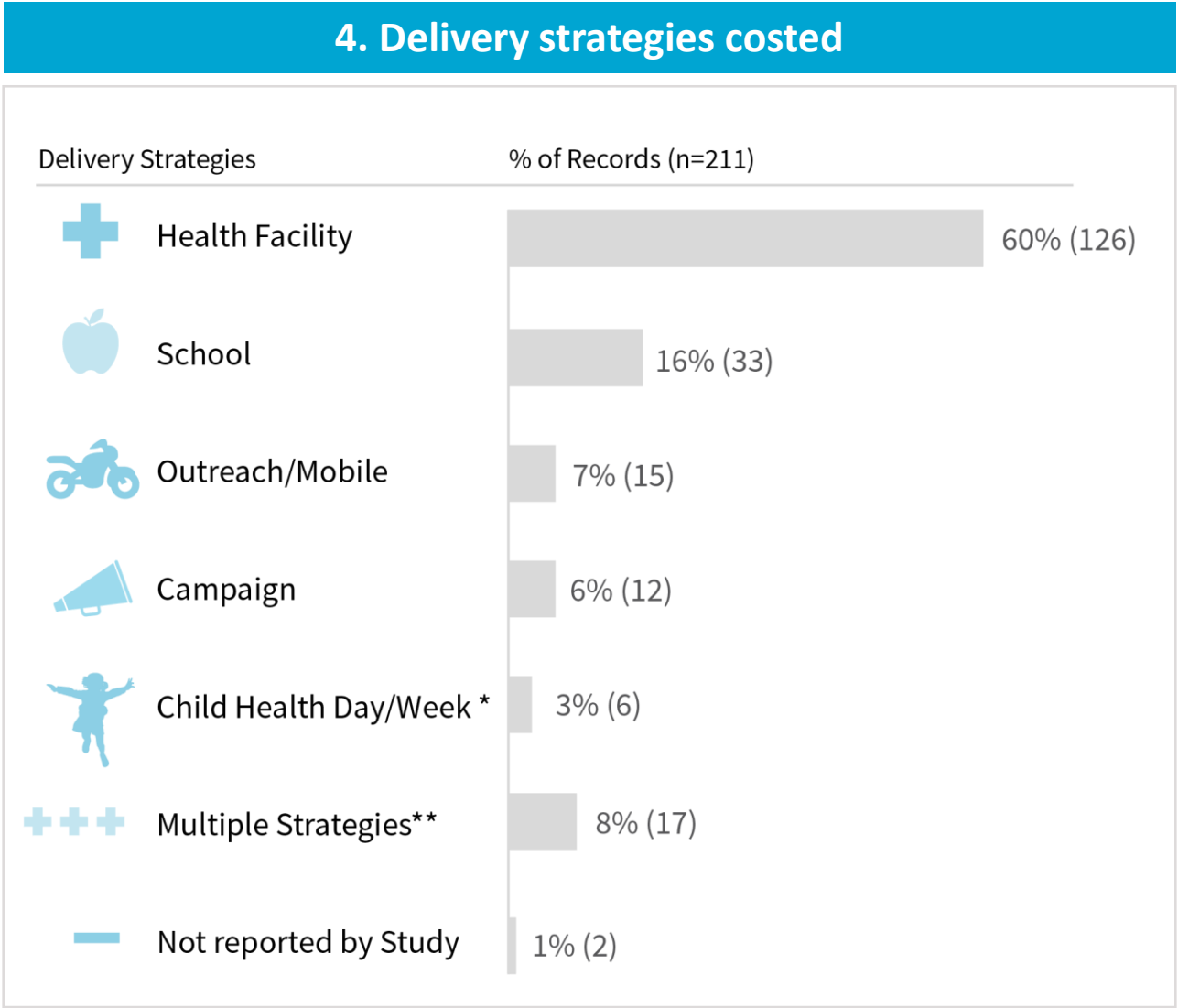


2. Vaccines represented



3. Multiple vaccines and vaccine schedules



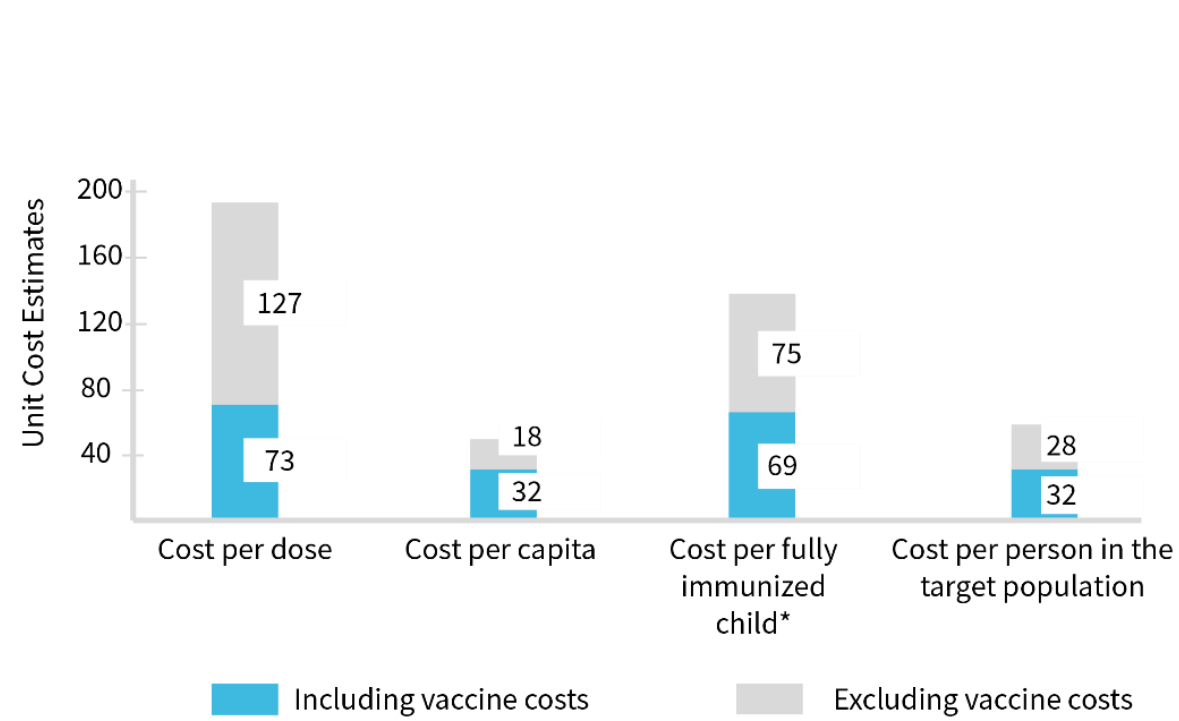
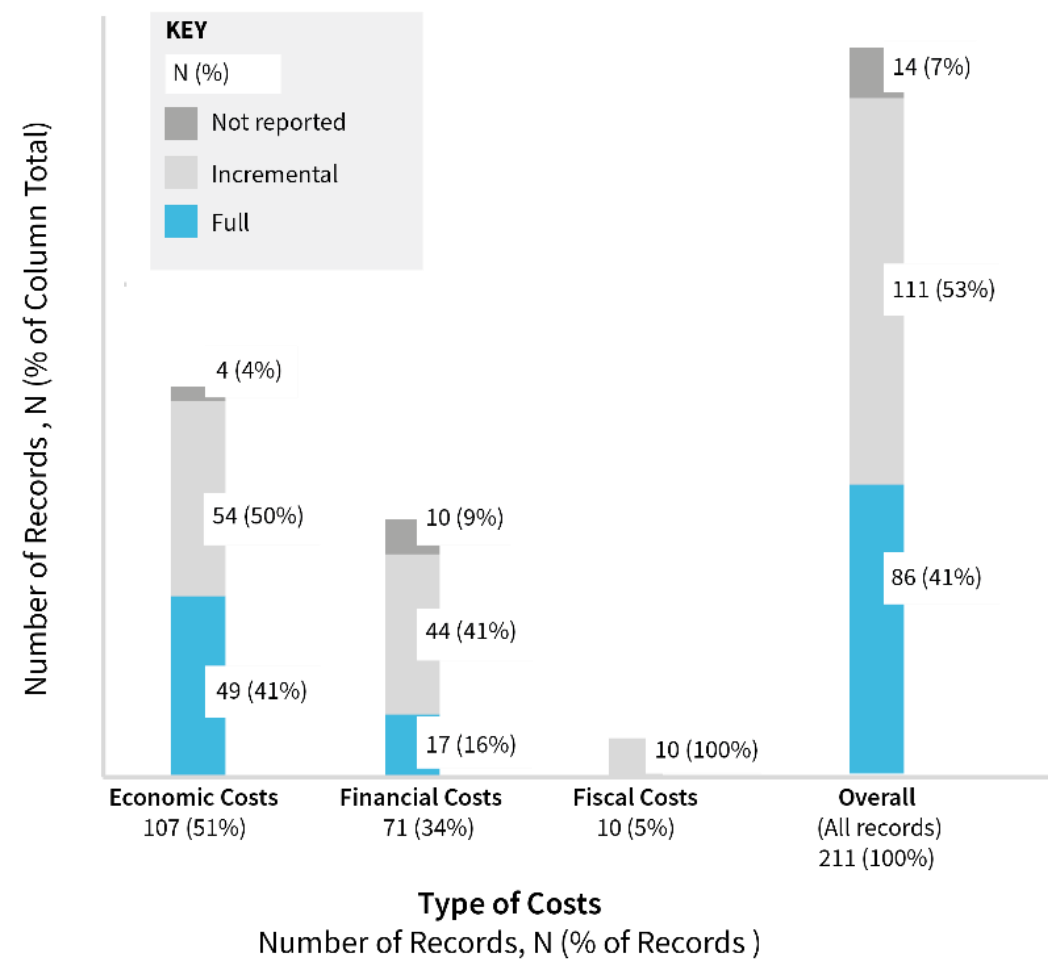


* Includes child health days/weeks or national immunization days/weeks

** Refers to a combination of two or more delivery strategies

5. Immunization delivery costs represented

6. Type of costs included



Poll: What other types of summary information would you like to see?

Using the IDCC: The Importance of Comparable Data Points

THE IMPORTANCE OF COMPARABLE DATA POINTS

— Data are highly heterogeneous

- Vaccines
- Delivery strategies
- Costs estimated using different methods

— Impossible to compare different types of data

- Economic, incremental cost per dose for school-based delivery
- Financial, full cost per fully immunized child for health-facility based delivery

THE IMPORTANCE OF COMPARABLE DATA POINTS

—Key criteria for determining comparability

Level	Variable	Level	Variable
Must-have	<ul style="list-style-type: none"> Economic, financial, or fiscal costs Full or incremental costing Startup and/or recurrent/ongoing costs Routine vs. SIA Supply chain only 	Might be important to have	<ul style="list-style-type: none"> Number of included cost categories (of 15 total) Paid human resources included Cold chain equipment and their overheads (installation, energy, maintenance, repairs) included Vehicles, transport and fuel included Training and capacity building included
Probably important to have	<ul style="list-style-type: none"> Scale (pilot/project or full) Highest level of costs included 	Depends	<ul style="list-style-type: none"> Vaccine Country income level Vaccine delivery strategy Other criteria

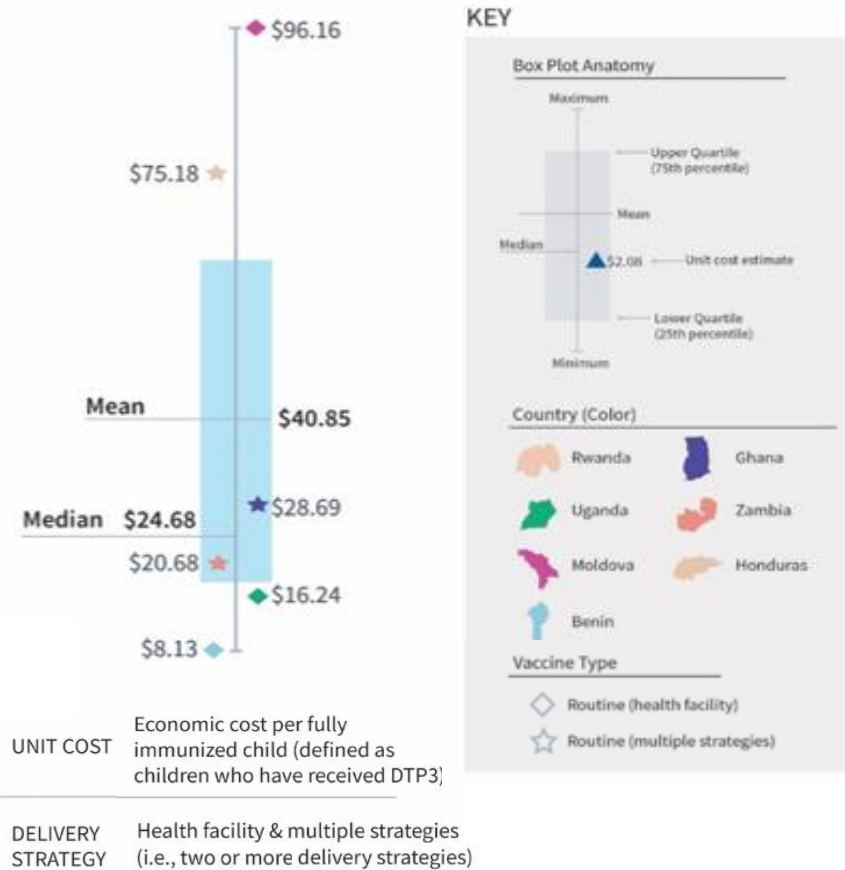
—Some decisions you will have to make yourself as the user

- Would data from other Sub-Saharan African countries be applicable to Tanzania?
- Can I look at data from all low income countries to get an idea of the cost ranges for school-based delivery of HPV, given that I am interested in producing a cost estimate for my low income country?

POOLED ESTIMATES

Full delivery costs estimates for delivering a schedule of vaccines, excluding vaccine cost (2016 USD)

Includes both introduction/startup costs and recurrent/ongoing costs



Countries	Vaccines costed	Delivery strategy (platform), sector, and scale	Other notes for interpretation	Quality score of cost estimates	No. of cost categories (of 15)	Delivery unit cost (excluding vaccine cost)	Individual immunization delivery unit costs	Cost Range (2016 USD)	Descriptive statistics (2016 USD)
Benin, Ghana, Honduras, Moldova, Uganda, Zambia	Schedules of 4-8 antigens for under 1 year olds	Health facility (fixed site) & multiple strategies (two or more delivery strategies)	Only facility level costs are included (i.e., above facility costs excluded) The immunization delivery unit cost estimates are for different schedules, representing different numbers of antigens, doses, and contacts with the health system	2.5-2.8	11-13 (all major cost categories included)	Economic cost per fully immunized child (defined as children who have received DTP3)	\$8.13 (Benin, health facility) \$16.24 (Uganda, health facility) \$20.68 (Zambia, multiple strategies) \$28.69 (Ghana, multiple strategies) \$75.18 (Honduras, multiple strategies) \$96.16 (Moldova, health facility)	\$8.13 - \$96.16	Mean: \$40.85 25th percentile: \$17.35 Median: \$24.68 75th percentile: \$63.56

MAIN TAKEAWAY MESSAGES

- **Facility-based delivery is less expensive than the following delivery strategies:**
 - School-based
 - Outreach/mobile
 - Campaigns
 - Child health day/week or national immunization day/week
- **There is huge variability in the data, even in comparable settings**
 - Wide cost ranges
- **We also see variability by country income level**
 - Higher income countries have higher delivery costs

Poll: How do you plan to use the IDCC in your work?

Q&A period

A photograph of a man in a purple robe and white turban walking past a red wall with colorful doors. The wall is a vibrant red, and there are several doors in different colors: a green door, a blue door, and a yellow door. The man is walking from left to right, and the scene is set in what appears to be a traditional Middle Eastern or North African street.

Thank you!

ICAN@thinkwell.global

Visit <http://immunizationeconomics.org/ican>
to view the IDCC and companion products