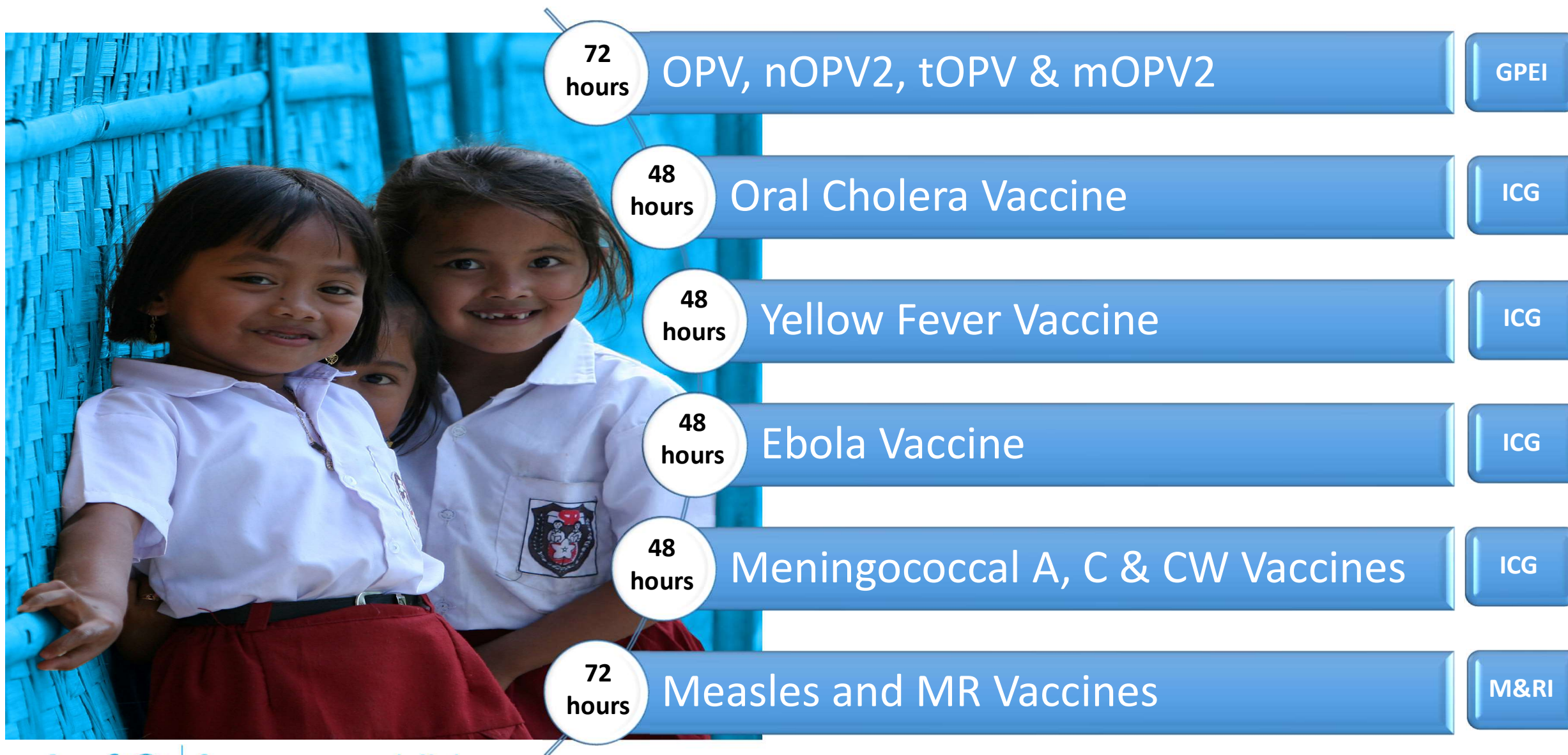


Stockpiling Vaccines DCVMN Workshop

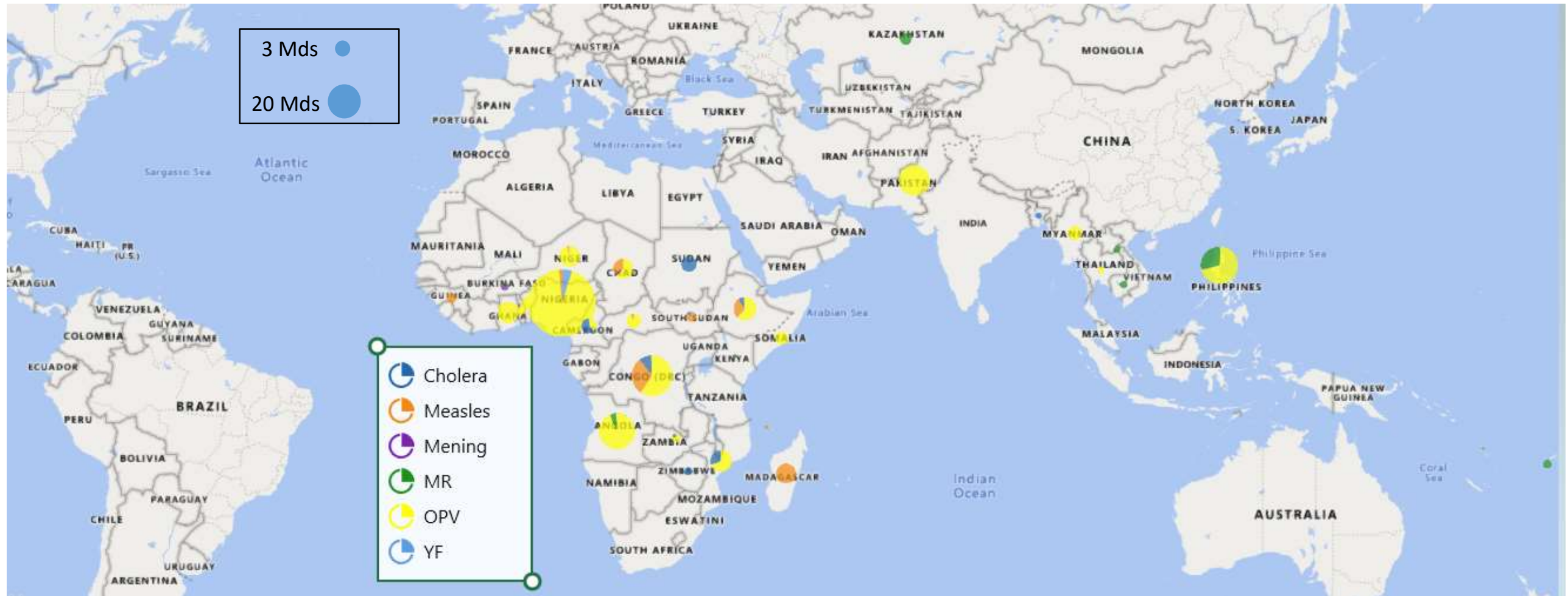
*Hans B. Christiansen
UNICEF, March 2021*



Emergency Vaccine Stockpiles – Managed through UNICEF



Outbreak Responses from Emergency Stockpiles - 2019



Emergency Vaccine Stockpiles



Why are Vaccine Stockpiles needed?

Outbreak Response Demand is difficult to forecast
&
Supply may not be immediately available

The tools to solve the issue on the demand side do not exist, the solution to the market failure can therefore only be identified on the supply side

On demand availability from Emergency stockpiles enable fast response against sudden demand from disease outbreaks

Types of Emergency Stockpiles

Stockpile Types	Description
Buffer	Quantity produced and kept ready on top of supplies for other markets and/or programme activities
Rotating	Quantity produced and kept ready - rotated with supplies for other markets and/or programme activities
Revolving	Stockpile is replenished after being deployed to outbreaks
Set Quantity	Stock of identified batches. Kept with supplier until deployed to outbreaks or until vaccine expiry
Surge capacity	Stock of bulk or naked vials to replenish the stockpile in case it is depleted



Actual stockpile constructions can be a mix of types. Most stockpiles contracted by UNICEF are Buffer stockpiles, Rotating and Revolving.

The constructions are influenced by suppliers' individual circumstances, alternative uses and markets for the vaccine and the requirement from the demand side.

Determining Stockpile Size and Type



Vaccine Supply Market

- Production capacity and speed
- Ongoing production without stockpile
- Time to replenish the stockpile
- Other markets

Public Health Objectives of Outbreak Response

Eradication / limit spread / increase coverage and protection

Risk of outbreak

- Forecasting demand / size of naïve populations / coverage
- Size of potential reactive campaigns and speed
- Risk of urban transmission

Epidemiology

Disease conditions / rate of transmission

Other programmatic uses of vaccine

Use of vaccine in routine and preventive campaigns

Vaccination strategies

Ring vaccination, geographical vaccination, at risk-groups

Emergency Stockpiles Contracted by UNICEF

Antigen	Stockpile type	# Suppliers	Size (million doses)
OPV	Buffer / Rotating	5	100
nOPV2/mOPV2/tOPV	Set quantity / Surge Capacity	3	100
OCV	Rotating / Revolving	2	3
YFV	Rotating / Revolving	2	6
Measles	Buffer / Rotating	1	2
MR	Buffer / Rotating	1	1
Meningococcal A	Revolving	1	1.5
Meningococcal C/W	Set quantity / Rotating	3	4
Ebola	Set quantity	1	0.5

A photograph of a woman wearing a white hijab and a dark blue backpack, walking away from the camera on a cobblestone street. She is passing a wall that is painted a vibrant, textured blue. The wall has a dark wooden door and some visible wear and tear. The text 'THANK YOU' is written in large, bold, yellow capital letters across the right side of the image.

THANK YOU