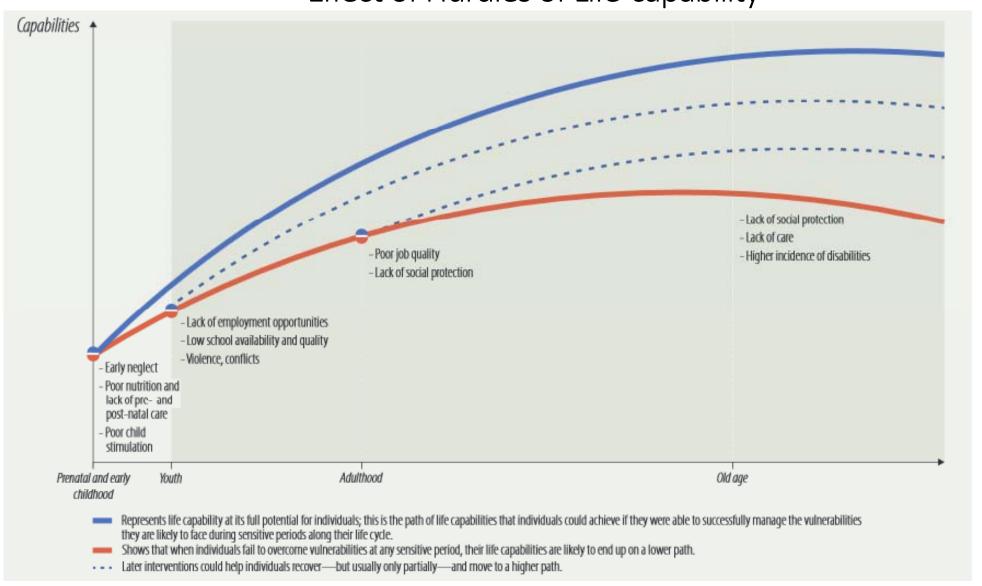
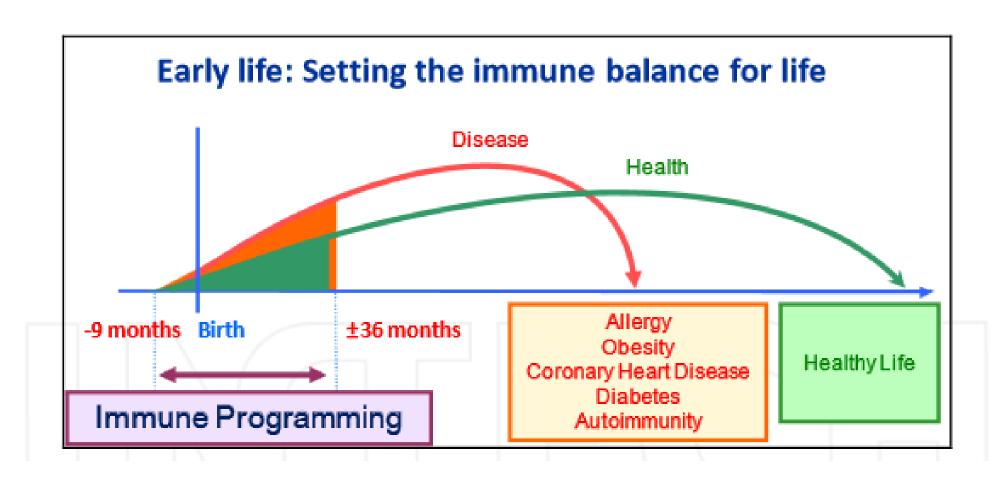
## Deviations from the Immunisation Schedule

Kevin Connolly Waterford Aug. 25<sup>th</sup>, 2016 Summary of Summary

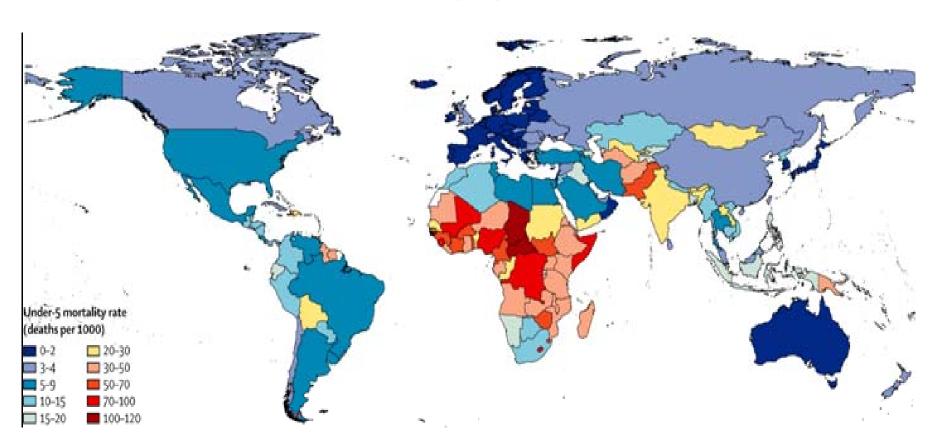
If in doubt, give them all

## Effect of Hurdles of Life-capability

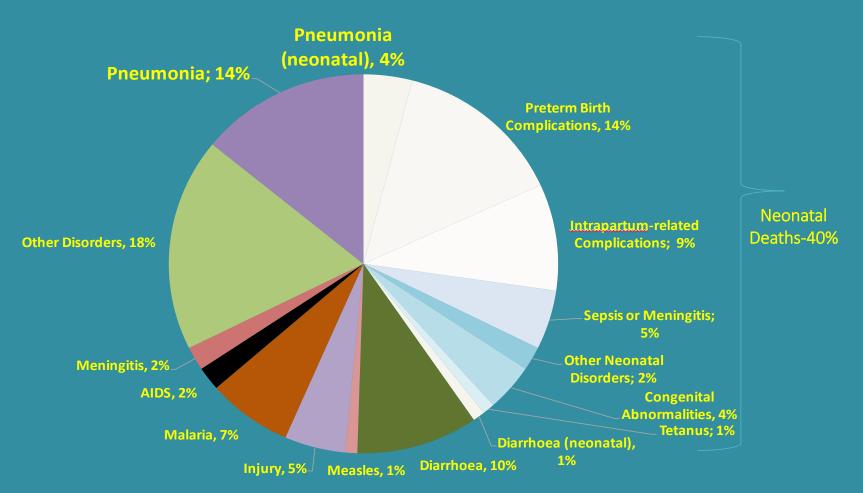




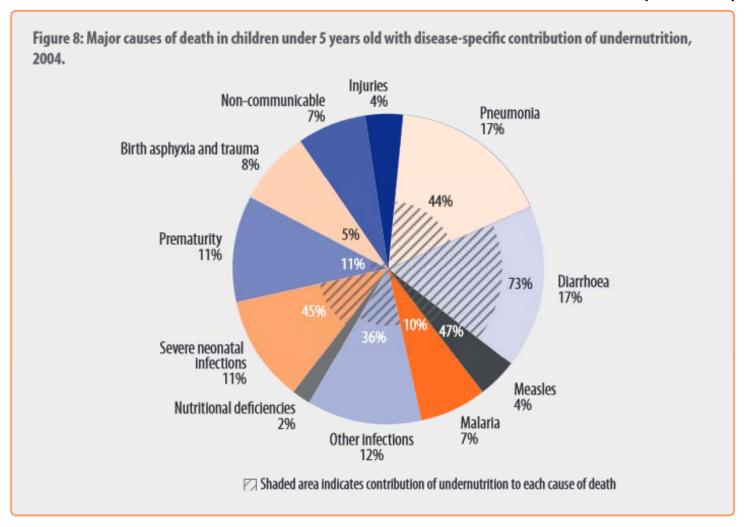
## Under 5's Deaths per 1,000 2013



## Global Deaths, Children <5 Years, 2014 (6.2m)



## Contribution of Malnutrition to <5s Deaths (2004)



## Global Child Mortality

2000- deaths <5 years ~ 9.6 million

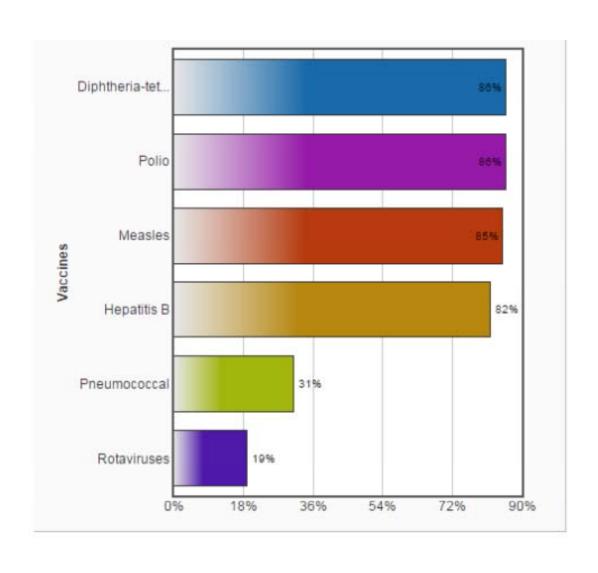


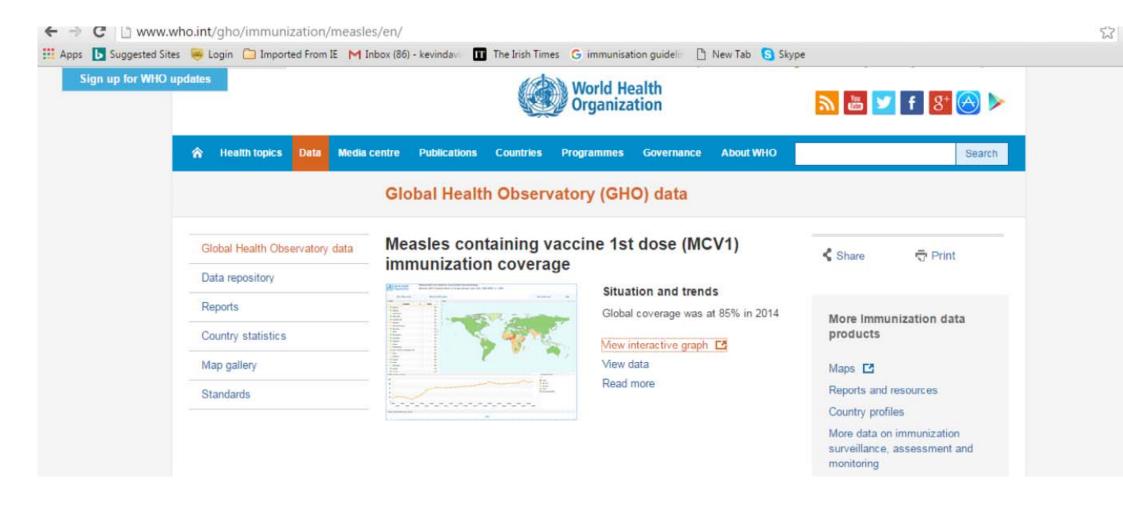
Immunisation WASH Education



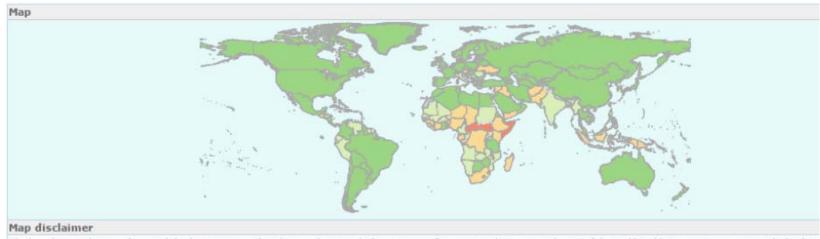
2014- deaths <5 years ~ 6.2 million (despite increase in number of children born)

## Global Immunisation Coverage, 2014





## MMR1 coverage 2014



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal sta any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which then not yet be full agreement. The borders of the map provided reflect the current political geographic status as of the date of publication (2015). However, the technical health information is based on dia accurate with respect to the year indicated (2014). The disconnect in this arrangement should be noted but no implications regarding political or terminological status should be drawn from this arrangement should be function of technical and graphical limitations.



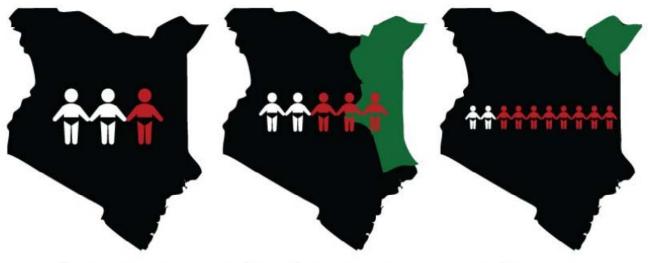
## Key Challenges

- Limited resources
- Competing health priorities
- Poor management of health systems
- Inadequate monitoring and supervision
- In 2014, over 18.7 million infants not reached with routine immunisations such as DTP3
- More than 60% of these children live in 10 countries: the Democratic Republic of the Congo, Ethiopia, India, Indonesia, Iraq, Nigeria, Pakistan, the Philippines, Uganda and South Africa.

Kibera Slum, Nairobi Pop. 800,000. Toilets - 600







Nationally, 2 in 3 Kenyan children are fully vaccinated.

In the North Eastern region, 2 in In Mandera County, 2 in 10 5 children are fully vaccinated.

children are fully vaccinated.



## Syria

			not reporting DTP3 coverage	16		
Immunization Schedule (2014 or latest available)		Hovering over an anti	Hovering over an antigen reveals its fuller definition			
Vaccine	Schedule	Entire country	Comment			
BCG	birth;	Yes				
DTaPHiblPV	2, 4, 6, 18 months;	Yes				
DTwPHib	2, 4, 6, 18 months;	Yes	according the availablility of vaccines			
DTwPHibHepB	2, 4, 6, 18 months;	Yes	according the availablility of vaccines			
НерВ	birth; 2, 6 months;	Yes				
IPV	2, 4 months;					
MMR	12, 18 months;	Yes				
Measles	9 months;					
MenACWY	6 years;	Yes				
OPV	6, 12, 18 months; 6 years;	Yes				
Π	1st contact; +1, +6 months; +1, +1 year;	Yes	CBAW			
Td	6, 12 years;	Yes				
VitaminA	12, 18 months;	Yes				

## Syria

								_	_			
	Mos	t recent cove	rage survey <sup>4</sup>		Officia	al country estim	ates <sup>5</sup>					
						(Click	for retrospective	coverage estima	tes data for Syria	an Arab Republic	(the))	
Vaccine	year	result	method	% card seen				_	•			
BCG	2008	93	PAPFAM	66	83	86	84	99*	99*	99*	92	3
DTP1	2008	88	PAPFAM	66	76	66	79	97	99*	98	93	
DTP3	2008	82	PAPFAM	66	62	60	64	91	99	97	91	1
DTP4					66	_	_	_	_	_	_	
IPV1					76	_	_	_	_	_	_	
HepB_BD					80	84	83	98	99*	99*	_	
HepB3	2005	77	MICS	55	62	86	58	81	99	90	_	
Hib3					62	60	64	91	99	_	_	
JapEnc					_	_	_	_	_	_	_	
MCV1					71	83	78	97	99	96	87	1
MCV2					66	75	70	88	99	92	_	
PCV1					_	_	_	_	_	_	_	
PCV3					_	_	_	_	_	_	_	
Pol3	2008	81	PAPFAM	66	68	80	68	91	99	97	91	1
Rota1					_	_	_	_	_	_	_	
Rota_last						_ <del>_</del>		. <del>-</del>	_	_	_	
Rubella1	4000				71	83	78	97	28	20	63	
TT2plus	1989	51	EPI	70	_	10	11	16	28	20	63	
PAB					71	_ 64	- 78	_ 59	_	-	_	
VAD1					/1	64	78	59	90	94	_	
YFV		0.1				_	_	_	_	_	_	
		° i	ndicates that	more than 1 survey	occurred that yea	ar						

## Polio Cases to 17/08/2016

Countries	Year-to-date 2016		Year-to-	date 2015	Total in 2015	
	WPV	cVDPV	WPV	cVDPV	WPV	cVDPV
Afghanistan	6	0	7	0	20	0
Pakistan	13	0	29	2	54	2
Guinea	0	0	0	0	0	7
Lao PDR	0	3	0	0	0	8
Madagascar	0	0	0	9	0	10
Myanmar	0	0	0	0	0	2
Nigeria	2	0	0	1	0	1
Ukraine	0	0	0	0	0	2







POLIO AND PREVENTION | KEY COUNTRIES | DATA AND MONITORING | POST-ERADICATION | RESEARCH | FINANCING | MEDIA ROOM

You are here: Data and monitoring > Polio this week > Polio cases worldwide

Polio this week

Polio cases worldwide

Wild poliovirus list

Circulating vaccine-derived poliovirus

Surveillance

Polio eradication targets



### Polio Immunization Campaigns

#### **National Immunization Days involve:**

- 2.3 million vaccinators
- · 209 million houses visited
- 155,000 supervisors
- 172 million children under the age of five vaccinated

On average, Sub-National Immunization Days involve:

 70 million+ children vaccinated in the highest-risk areas



#### **National Immunization Days**

National Immunization Days (NIDs) are held across India twice a year, with the Government of India setting out to give two drops of oral polio vaccine (OPV) to every child in the country under the age of five. The scale is extraordinary, with more than 172 million children immunized by 2.3 million vaccinators who visit every house in every city, town and village across the country – more than 209 million houses in all.

#### **Sub-National Immunization Days**

Several Sub-National Immunization Days (SNIDs) are also held annually in the highest-risk states, including Uttar Pradesh, Bihar, West Bengal and areas most at risk of a polio outbreak, due to underlying factors such as poor sanitation,

### **CAMPAIGN MATERIALS**

- » House to House Microplan
- » Date Notification Poster
- » IEC Monitoring Form

More Materials >>

### Late entrants

Unless reliable documentation

Assume to be unimmunised

Catch-up programme

# Records may not be accurate – accept with caution

Inefficacy of vaccines may be due to :-

- -Improper storage or handling
- -Immune defects (e.g. severe malnutrition)

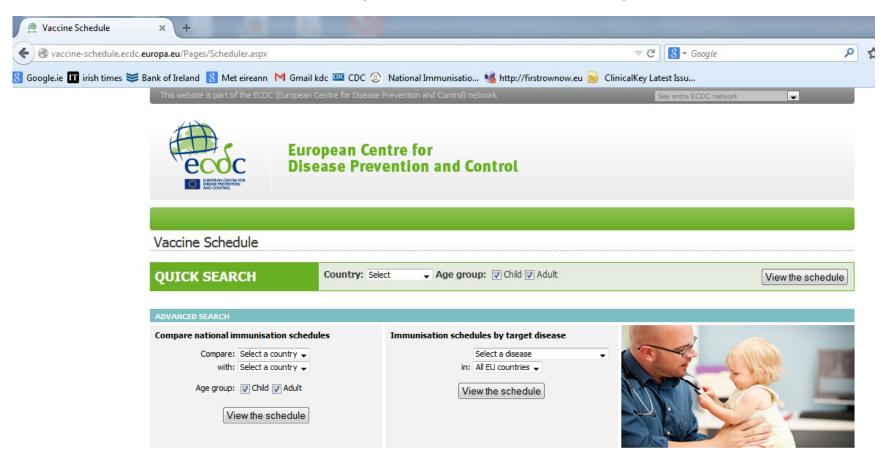


## Suggested Rules for Catch-up

Plan on available evidence of prior vaccinations

Observe minimal intervals and age
Interval between doses may be less than optimal
Number of doses may reduce with age (e.g. PCV)
Don't restart schedule
May give all vaccines at one visit
Schedule next visit for => minimal interval
Use optimal intervals when child is back on course

## Country Schedules-Europe



Comparisons can be made for vaccination policies between two countries or by disease for all or a selection of countries.

Despite this platform being continuously monitored, it is suggested the national competent bodies are also consulted for the most up to date policies.





















Who we are

**Public Information** 

**Healthcare Worker Information** 

Information Materials

Glossary

**Useful Websites** 

Immunisation > Healthcare Worker Information > Immunisation Guidelines

- > Who we are
- > Public Information
- > Healthcare Worker Information
  - > Flu Vaccination
  - > Other Vaccines
  - > FAOs
  - > Immunisation Guidelines
  - > School Programme
  - > Practical Guide to Immunisation
  - Naccina Ordaring and Storage

### **Immunisation Guidelines**









#### Immunisation Guidelines for Ireland, 2013

Please check this page regularly to ensure you have the most up to date guidance.

The Immunisation Guidelines for Ireland, 2013 are only available online.

- Anaphylaxis (Updated 25th August 2015)
- > List of committee members
- > Preface
- > Changes to online chapters of 2013 Immunisation Guidelines (10th January 2014)
- > Changes to online chapters of 2013 Immunisation Guidelines (9th June 2014)
- > Changes to online chapters of 2013 Immunisation Guidelines (22nd August 2014)

#### General Immunisation Procedures • Aug 2015

Table 2.3 Catch-up schedule for children and adults

Vaccine	4 months to <12 months	1 to < 4 years	4 to <10 years	10 to <18 years	18 years and older
BCG	1 dose	1 dose	1 dose	1 dose (up to 15 years of age if in low risk group or up to 35 years of age if in high risk group)	1 dose (up to 35 years of age if in high risk group)
6 in 1 (DTaP/IPV/Hib/Hep B)	3 doses 2 months apart	3 doses 2 months apart	3 doses 2 months apart		
Men C	1 dose	1 dose	1 dose	1 dose (if given after 10 years of age, adolescent MenC booster not required)	1 dose (up to 23 years of age)
PCV	2 doses 2 months apart	1 dose (omit if ≥2 years of age²)			
MMR <sup>2</sup>		1 dase	2 doses 1 month apart	2 doses 1 month apart	2 doses 1 month apart <sup>4</sup>
Tdap/IPV				3 doses 1 month apart	1 dose <sup>s</sup>
Td/IPV					1 month after Tdap/IPV 2 doses 1 month apart
NOTE	Continue with routine childhood immunisation schedule from 12 months.	Continue with routine school immunisations [4 in 1 (DTaP/IPV) at least 6 months and preferably 3 years after primary course, MMR at least 1 month after previous dose]	Continue with routine school immunisations [4 in 1 (DTaP/IPV) at least 6 months and preferably 3 years after primary course]	Boosters of Tdap/IPV 5 years after primary course and Tdap 10 years later	

<sup>10</sup>ne dose of single Hib vaccine may be given to children over 12 months of age and up to 10 years of age if this is the only vaccine they require

<sup>&</sup>lt;sup>2</sup>Unless at increased risk

<sup>&</sup>lt;sup>3</sup> The second dose of MMR is recommended routinely at 4-5 years but may be administered earlier. Children vaccinated before their first birthday in the case of an outbreak should have a repeat MMR vaccination at 12 months of age, at least one month after the first vaccine with a further dose at 4-5 years of age. If a child aged <18 months receives a second MMR vaccine within 3 months of the first MMR a third MMR should be given at 4-5yrs of age.

<sup>\*</sup> For health care workers born in Ireland since 1978 or born outside Ireland; for contacts in outbreaks born in Ireland since 1978 or born outside Ireland and for adults from low resource countries, without evidence of two doses of MMR vaccine

<sup>5</sup> Only one dose of Tdap/IPV is required due to likely previous exposure to pertussis infection

### Late entrants

Unless reliable documentation

Assume to be unimmunised

Catch-up programme

### Summary

- No need to restart incomplete course
- Access information about schedules in other countries via websites
- Vaccinate late entrants according to new schedule

"access" the right or opportunity to use or benefit from something."

Factors that affect service utilization.

access limited by geography, culture, awareness, conflict, economics, disability, policy, or attitudes.

nomadic pastoralists' access to vaccines in NE Kenya. income is primarily based on raising livestock; nomadic pastoralists migrate with their animals seasonally in pursuit of grazing and water.

"very poor," "move constantly" "hard to reach." perspective of a healthcare system designed to deliver services in clinical settings or by means of "outreach" to well-identified and largely sedentary communities.

pastoralists' viewpoint lends a different perspective on both access and utilization. Proximity to good grazing and water for livestock is paramount

they must also settle near markets where they can sell. Thus, because animal husbandry is the main driver of their seasonal movements and settlement patterns, one must consider household decision-making around utilization of health services

One woman explained that she has "no time," and "too many household chores" to vaccinate her child. As the main caregivers of children, and primary herders of smaller, women have many responsibilities within the household, even when these are shared with co-wives or other community members.

consider the trade-offs of competing demands on mothers' time. While health facilities and animal markets are near to each other, the clinic schedule itself may constrain access for women whose priorities begin with childcare and extend through water collection, animal husbandry, etc. So when a mother travels to a clinic (perhaps at the expense of lost income from the market) to find it closed for an unscheduled "outreach day," or stocked out of one or more vaccines, we can begin to see the features of a health system which can unintentionally create barriers to access and, therefore, limit utilization of services by those who need it most.

health-system factors, economic behaviors and networks, cultural beliefs, and household-level decision-making which affect access to and utilization of immunization services among pastoralists.