

TARGETED VACCINATION: TRAVELLERS

It's not just about vaccines...



Dr Albie de Frey

MB ChB (Pret); DA(SA); Dip PEC(SA); Dip TM (Glasgow)

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SENIOR HONORARY LECTURER

UNIVERSITY OF THE WITWATERSRAND

PAST PRESIDENT, EXECUTIVE COMMITTEE MEMBER,

SOUTH AFRICAN SOCIETY OF TRAVEL MEDICINE



6 NOVEMBER 2025

TRAVEL MEDICINE IN A NUTSHELL



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OCTOBER2025

TARGETED VACCINATION: TRAVELLERS

It's not just about all vaccines...



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6 NOVEMBER 2024

TARGETED VACCINATION: TRAVELLERS

It's not just about vaceines for all!

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6 NOVEMBER 2024

OVERVIEW

- Definition of Travel Medicine
- Travel Medicine in a Nutshell
- In the Beginning...
- "Travel Vaccines"
- Vaccines for all

Definition of Travel Medicine

MULTIDISCIPLINARY FIELD PRIMARY GOAL –



EDUCATION (95%)

Vaccination (5%) & Prophylaxis (Malaria)

SECONDARY GOAL

Minimize the impact of illness
Teaching principles of self-treatment

AND:

Concern for the impact of travellers on the host country



Travel Medicine in a Nutshell

- What you bite into
- What bites into you
- What hits you...



"WHAT YOU BITE INTO..."



"WATCH OUT WHAT BITES INTO YOU!"



"WATCH OUT WHAT HITS YOU..."





TRAVEL HEALTH RISKS



- Traveller's Diarrhoea
- Hepatitis A
- Typhoid
- Lassa Fever
- Cholera
- Etc.

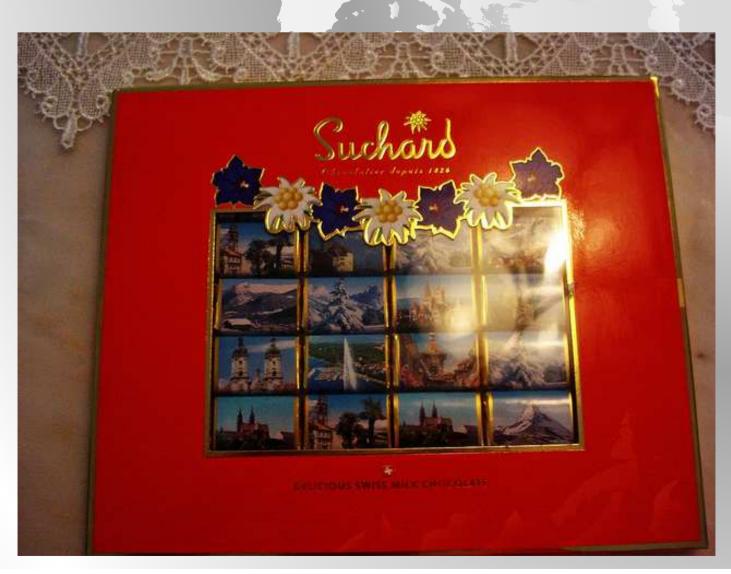


- Malaria
- Yellow Fever
- Rabies
- Ladies o.t. Night: HIV/AIDS
- Sleeping Sickness
- Dengue
- River Blindness
- Etc.



- Injury On Duty
- Road Traffic Accident
- Interpersonal Violence

In the Beginning...



In the Beginning...

- Switzerland 1980's
- Squeaky clean
- Fully vaccinated

No (little) infectious

disease





"Travel Vaccines"

All (Swiss / European) children are fully vaccinated

Travellers may go to countries where they are exposed to:

- Infectious disease
- Some vaccine preventable
- They may die from it
- They may bring it back to Switzerland...

THUS: "TRAVEL VACCINES"









MEASLES ALERT

10 November, 2020

Three laboratory-confirmed measles cases have been de

October to the 5th of November in two provinces (Eastern 27 October, 2022

the National Institute for Communicable Diseases (NICL, comprise a cluster or outbreak (defined as 3 cases within one health district within one month) but warrant heightened attention.

MEASLES OUTBREAK UPDATE GREATER SEKHUKHUNE DISTRICT, LIMPOPO PROVINCE (27 OCTOBER 2022)





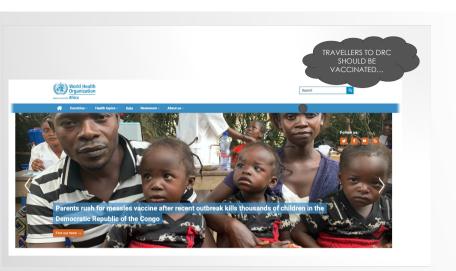
TRAVELLERS TO SOUTH AFRICA SHOULD BE VACCINATED???

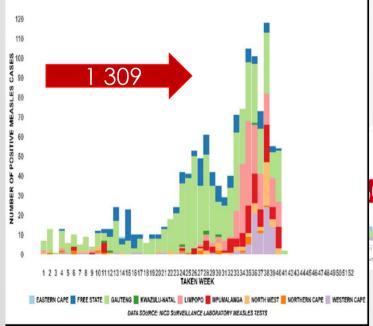
MEASLES ALERT

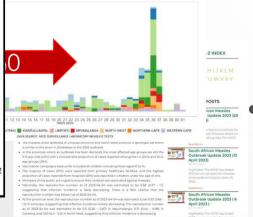
10 November, 2020

Three laboratory-confirmed measles cases have been detected between the 30th of October to the 5th of November in two provinces (Eastern Cape and KwaZulu-Natal) by the National Institute for Communicable Diseases (NICD). These cases do not yet comprise a cluster or outbreak (defined as 3 cases within one health district within one month) but warrant heightened attention.









TRAVELLERS TO
SOUTH AFRICA
SHOULD BE
VACCINATED???

WHY ARE
SOUTH AFRICANS
not VACCINATED???



Division of the National Health Laboratory Service



EAST AFRICAN TRYPANOSOMIASIS

Uganda

Malawi

Zambia

December 2018 - October 2019

Travellers act as sentinels....



September 2024

- Two cases from Zimbabwe

2025

- Two cases from Zambia



WEST AFRICAN TRYPANOSOMIASIS

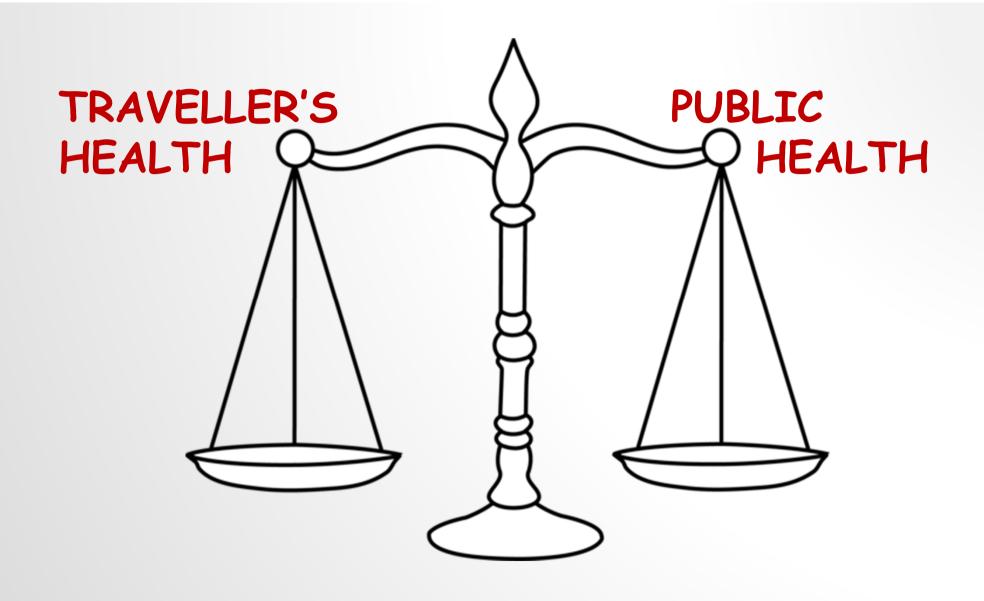
5 November 2023

Kinshasa DRC

Sudan Gambian or West African form Ango la Rhodesian or ast African form

University lecturer - had been ill for 2 years

Travellers act as sentinels....



"TRAVEL MEDICINE"

· What you bite into -

% = VACCINE PREVENTABLE

What bites into you

Only protects against 5% of travel related diseases

What hits you - TRAUMA

Does NOT cover malaria...

DOES cover COVID...



"TRAVEL MEDICINE"

· What you bite into -

% = VACCINE PREVENTABLE

What bites into you

Only protects against 5% of travel related diseases

What hits you - TRAUMA

Does NOT cover malaria...

DOES cover COVID...



"Travel Vaccines"

Where do we begin?



VACCINES

CHILDHOOD

- Must be up to date
- BCG, DTP, Polio, Hep B, HiB, Pneumococcus, Rotavirus, M(MR), Chickenpox

COMPULSORY

- Yellow fever
- Meningococcal disease

RECOMMENDED / "Travel Vaccines"

· Hepatitis A, Typhoid, Rabies, Japanese Encephalitis, European TBE



Age of child Vaccine

Vaccination schedules by region

Worldwide

Africa

We only list vaccination schedules that come from reliable sources, such as a country's government, or from a UN agency such as UNICEF or the WHO. The countries listed below are where it has been possible to find reliable schedules. If your country isn't listed and you are located there, please do check with your local healthcare provider.

nalitis

Nigeria

The national immunisation schedule for Nigeria can be found on the <u>UNICEF Nigeria</u> site.

South Africa

The childhood immunisation schedule for South Africa can be found on <u>UNICEF South Africa's website</u>.

Kenya

The childhood immunisation schedule for Kenya (Kenya Expanded Programme for Immunization, or KEPI) is available here.

Uganda

Uganda's immunisation schedule can be found here on UNICEF's website.

NOT ALL EPI'S

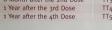
ARE EQUAL...

			_												
Haemophilus influenzae type b' (Hib)		≪ 1°dose≯	4 2" doser >	See footnote 5		È" or 4" see footn see footn	dose, onf 5····➤								
Pneumococcal conjugate ^(a) (PCV13)		<-1°dose→	47 ° dow≯	4 3°dose≯		∢ (° do	se>								
Pneumococcal polysaccharide ^{au.} (PPSV23)									- [
Inactivated Polipvirus' (IPV) (<18 years)		<-1°dose>	42 °dow≯	4		3"dose				-	4" dose≯				
Influenza [†] (IN; LAIV) 2 doses for some : see footnote 8						Annual vaccinat	on (EV only)					nnual vaccinat	tion (IV or LAV	9	
Measles, mumps, rubella ⁵ (MMR)						∢1 °do	·····>			-	2″dose ≯				
Varicella™(VAR)						∢ 1°dor	·····>				Ç"dose ≯				
Hepatitis A ¹¹ (HepA)						∢	Zdose series, ser	e foomate 11	>						
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)													(3-dose series)		
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MCV4-D≥9 mas; MCV4-CRM ≥ 2 yrs;)					see foot	note 13							∢ 1°dose≯		boom
Range of recommended ages for all children	Range of rec					commended a high-risk grou		whi	ch catch-	commended ag	es during ped and fo	, [No	t routinely r	ecommended

Botswana Immunization Schedule

A	ge	Vaccine
At	Birth	BCG+HBV O
2	Months	OPV 1, Pentavalent 1 (DPT-HBV-Hib), Rotavirus 1, Pneumococcal 1.
3	Months	OPV 2, Pentavalent 2 (DPT-HBV-Hib), Rotavirus 2, Pneumococcal 2.
4	Months	OPV 3, Pentavalent 3 (DPT-HBV-Hib), Pneumococcal 3.
9	Months	Measles 1
18	Months	OPV Booster, DT Booster & Measles 2
7	Years	OPV Booster, DT Booster
13	Years	TT Booster

Women of Child Bearing Age First Contact 1 Month after the 1st Dose TT2 6 Month after the 2rd Dose TT3 1 Year after the 3rd Dose TT4









Childhood Immunisation Schedule

Age of Child	Recommended Vaccines	Product	
At Rich	Oral Polio Vaccine	OPV-Mérieux*	
WC RIAD	BCG Vaccine		
& Weeks	Diphtheria, Totanus, Acellular Pertussis, Hisemognilius influenzae type b, Inactivated Polio and Hispatibs B Vaccine	Li Hexaxint	
	Retavirus Vaccine (RVS)	Politieq*	
	Pneumococcal Conjugated Vaccine	A.	
10 Weeks	Diphtheria, Tetanus, Acellular Pertussis, Finemephilius influenzae type b, Inactivated Pollo and Hepatitis 8 Vaccine	FilHexaxim	
	Retavirus Vaccine (RV5)	Fig::Reg*	
	Pneumococcal Conjugated Vaccine		
14 Weeks	Diphtheris, Tetanus, Acellular Pertussis, Heerosphilus influenzae type b, Irazdivaked Pollo and Hepatibs B Vaccine	111-fexasimi	
	Retavirus Vaccine (RVS)	Pot Teq*	
	Pneumococcal Conjugated Vaccine	3	
3 Months	Measles Vaccine	ROUVEN	
12 Months	Hepatitis A Vaccine (Paediatric)	AVALENCE	
12 - 15 Manths	Varicella Vaccine (Chickenpox)	t e	
	Pneumococcal Conjugated Vaccine		
to 18 Menths	Measles, Mumps, Rubella Vaccine	TRIMOVAX	
18 Months	Diphtheris, Tetanus, Acellular Pertussis, Hacmophilus influenzae type b and Inachivated Polis and Hepatitis B Vaccine	11Hexaxint	
	Heputitis A Vaccine (Reaster Paediatric)	AND REAL PROPERTY.	
4 - E Years	Mexiles, Mumps, Rubella Vaccine	TRIMOVAX	
	Tetanus, Diphtheria, Acellular Pertussis and Inactivated Polio Vaccine	MACEL GUADRA	
From 9 Years	Human Papillemavirus Vaccine		
12.19a/s	Measles, Mumps, Rubella Vaccine IV nessed at 6 years)	TRIMOVAX	
	Tetanus, Diphtheria, Acellular Pertussis and Inactivated Polio Vaccine	ARACEL QUADRA	

For Healthcure Professionals Only



SANOFI PASTEUR 🧳

VACCINES

CHILDHOOD

- Must be up to date
- BCG, DTP, Polio, Hep B, HiB, Pneumococcus, Rotavirus, M(MR), Chickenpox

COMPULSORY

- Yellow fever
- Meningococcal disease
- RECOMMENDED / "Travel Vaccines"
 - · Hepatitis A, Typhoid, Rabies, Japanese Encephalitis, European TBE







YELLOW FEVER

- THE "ONLY" COMPULSORY TRAVEL VACCINE
 - INTERNATIONAL HEALTH REGULATIONS (WHO)
- A PUBLIC HEALTH MEASURE
 - TO PREVENT THE SPREAD OF YF

TO OTHER COUNTRIES

- RSA / (Country X) harbours the A. aegypti mosquito
 - Vector for Yellow Fever
 - To prevent the introduction of the virus

17 countries in Africa – 248 cases 5 countries in Central & South America affected – 61 cases year

CURBING THE SPREAD OF YELLOW FEVER

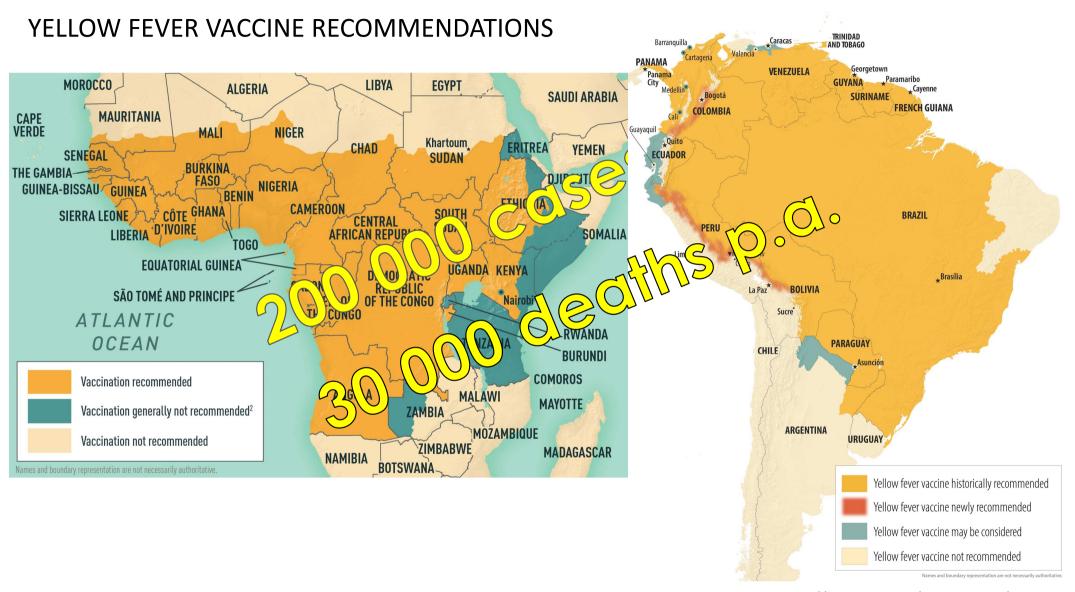




YELLOW FEVER

PERSONAL RISK

- Yellow fever is a viral haemorrhagic fever transmitted by day biting mosquitoes (*Aedes* spp)
- ± 150 000 cases per year
- ± 50 000 deaths per year
- Vaccine preventable
 - Safe and affordable
 - LIVE vaccine;
 - Some precautions / contra-inidications



https://www.cdc.gov/yellow-fever/south-america/



Yellow Fever - Africa Update

36 yellow fever deaths confirmed in Africa:
According to an update recently published by the Africa
Centres for Disease Control and Prevention (Africa CDC),
yellow fever outbreaks continue across the continent in
2023.

As of 28 Oct 2023, the Africa CDC reported a total of 2779 yellow fever cases, and 36 deaths (CFR: 1.3%) have been reported in 7 African Union countries this year [2023]. The impacted countries are: Cameroon (41 cases; 4 deaths), CAR (326; 5), Congo (324; 2), Gabon (79; 0), Guinea (178; 4), Nigeria (1,819; 21), and Uganda (12; 0).

In 2022, 12 countries in the African Region reported confirmed yellow fever cases.

Yellow fever is an epidemic-prone, vaccine-preventable disease transmitted to humans by mosquitoes. The incubation period ranges from 3 to 6 days. While many people do not experience symptoms, individuals can have more severe symptoms. Death can occur within 7-10 days in about half of cases with severe symptoms.

According to the WHO/UNICEF Estimates of National Immunization Coverage in 2021, routine immunization coverage against yellow fever in the African Region for childhood vaccinations was 48%, much lower than the threshold required to confer population immunity. In reaction to these data, the WHO and Africa CDC reassessed the health risk at the regional level in 2022 as moderate.

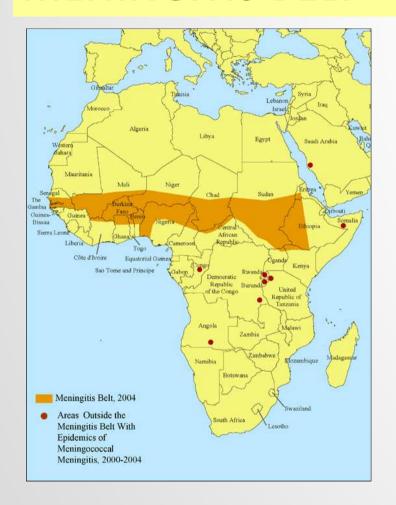
For many international travelers, proof of yellow fever vaccination is a requirement to visit at-risk countries, such as Brazil.

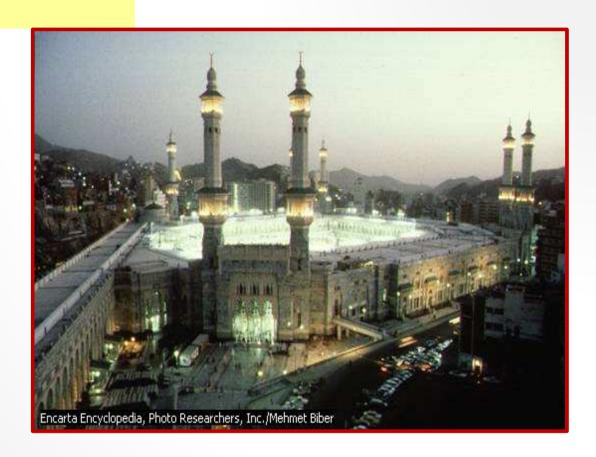
YELLOW FEVER is alive and well and...

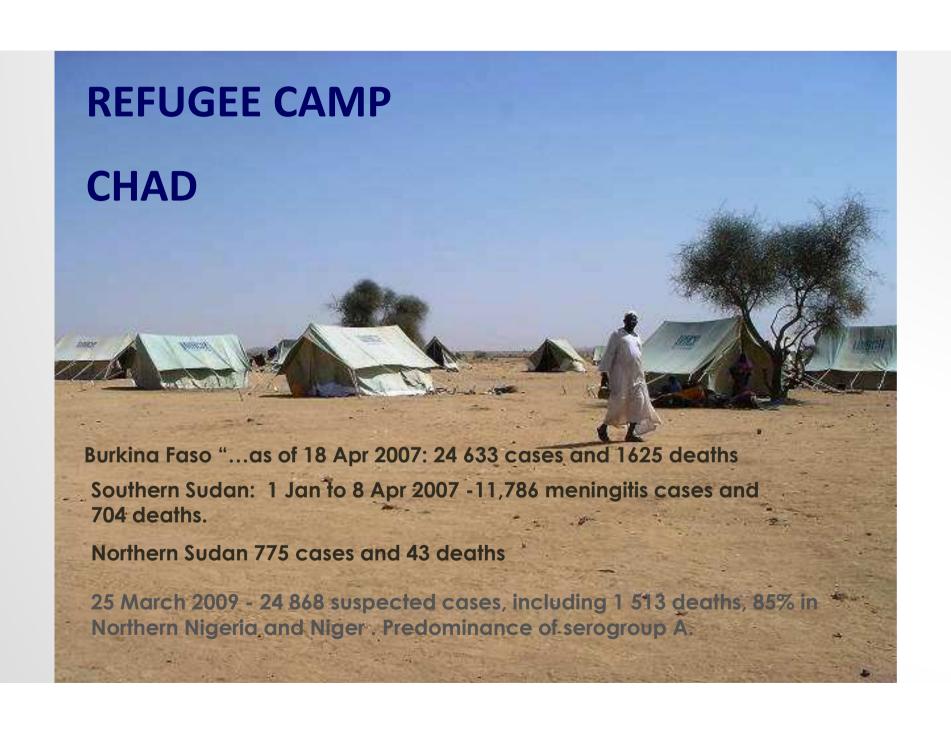
The above report indicates that yellow fever (YF) virus transmission remains active in Sub-Saharan Africa this year (2023). Since 4 Aug 2023 when a total of 289 cases (29 confirmed; 260 suspected) with 7 deaths of YF was reported in 4 African Union Member States, the number of cases has increased to 2779 yellow fever cases, with 36 deaths reported above.

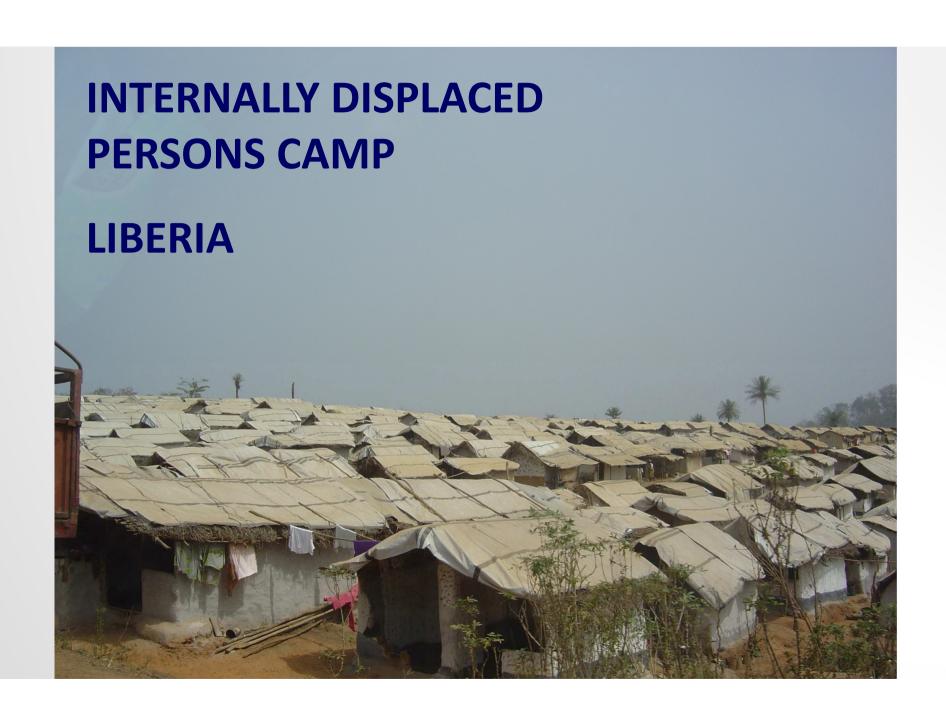
The fact that only 48% of children are being vaccinated is of concern when the WHO minimum for population coverage is at least 80%. No figures are provided for current overall vaccination coverage of the populations of the affected countries. It would be interesting to know if all of these cases are due to sylvan (forest) transmission cycles or to urban transmission involving _Aedes aegypti_ mosquitoes, especially for Nigeria, the Central African Republic and the Congo [which Congo?], the countries with the highest numbers of YF cases this year (2023). Low vaccination coverage coupled with abundant _Aedes aegypti_ vectors can lead to massive YF outbreaks.

MENINGITIS BELT









VACCINES

CHILDHOOD

- Must be up to date
- BCG, DTP, Polio, Hep B, HiB, Pneumococcus, Rotavirus, M(MR), Chickenpox

COMPULSORY

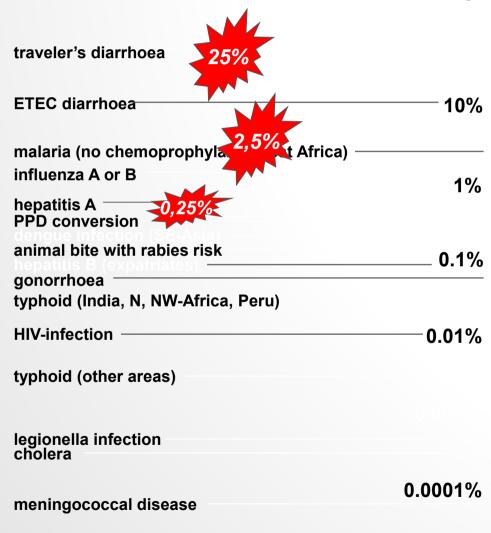
- Yellow fever
- Meningococcal disease

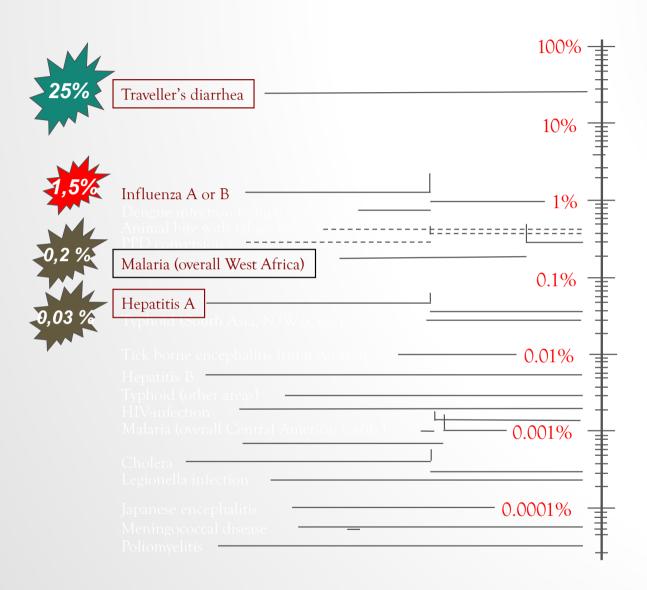
RECOMMENDED / "Travel Vaccines"

· Hepatitis A, Typhoid, Rabies, Japanese Encephalitis, European TBE



Incidence rate / month of health problems during a stay in developing countries

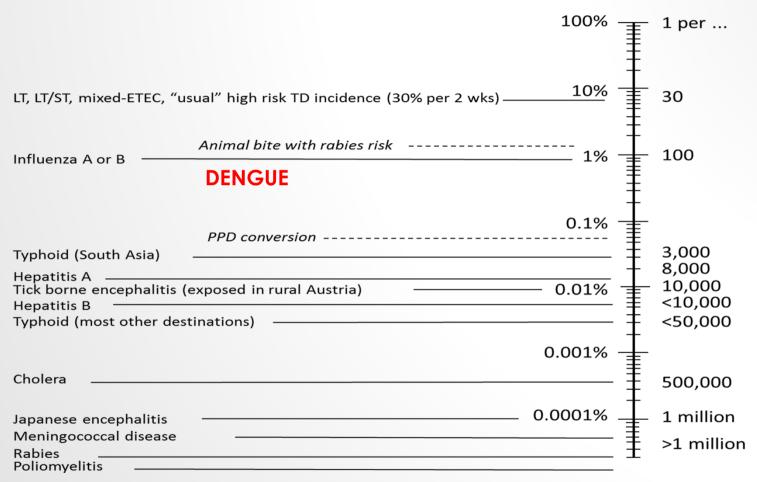




Steffen R et al. J Travel Med 2008;15:145-6

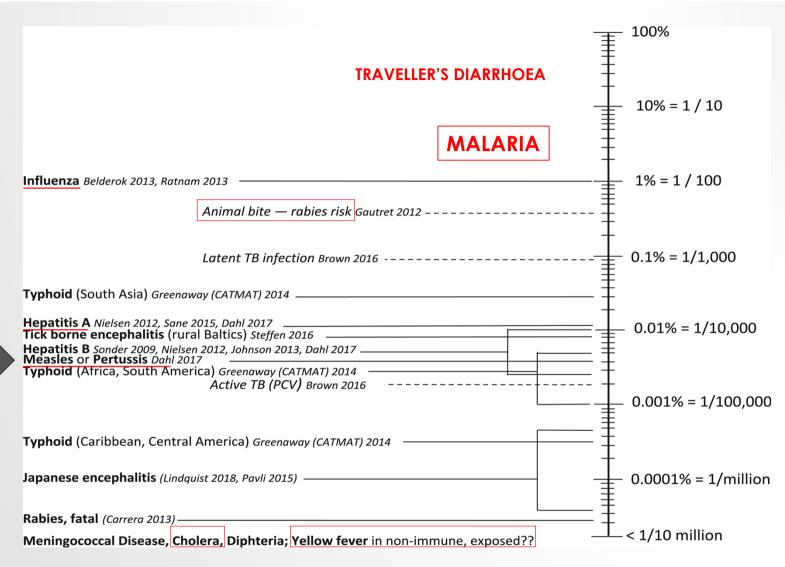
Western Travelers to Tropical and Subtropical Destinations

Vaccine Preventable Diseases — Estimates of incidence rate per month



ETEC, Enterotoxigenic Escherichia coli; LT, Labile enterotoxin; ST, Heat stable enterotoxin, PPD, purified protein derivative

2018



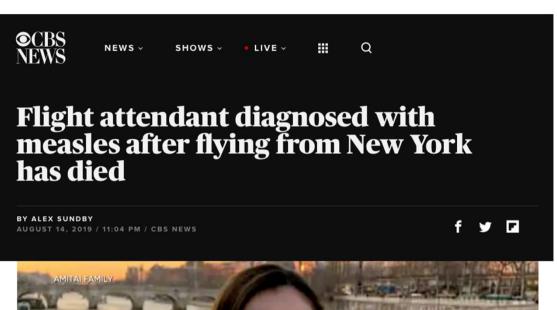
From: Travel vaccine preventable diseases—updated logarithmic scale with monthly incidence rates J Travel Med. 2018;25(1). doi:10.1093/jtm/tay046



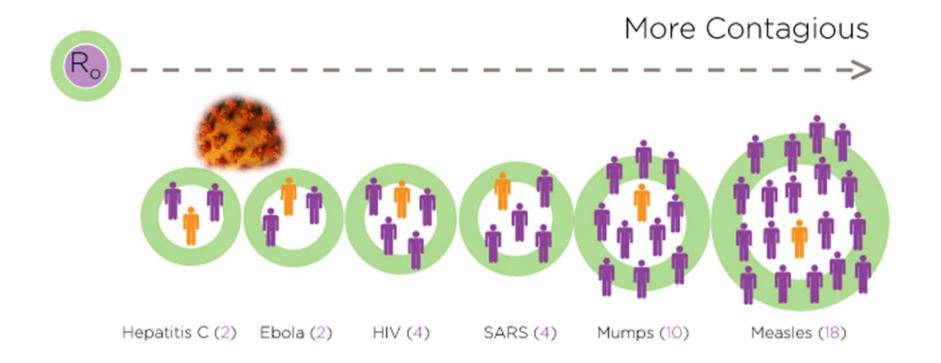
MEASLES

Measles is not "just" a childhood disease...

Measles has the highest *Rate of Infection* of all infectious diseases







The Reproduction Number of ID

Incidence rate / month of health problems during a stay in developing countries

traveler's diarrhoea

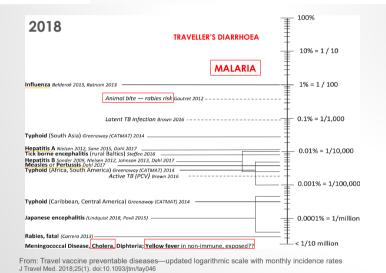
0.1%

typhoid (other areas)

influenza A or B
hepatitis A
PPD conversion
animal bite with rabies risk

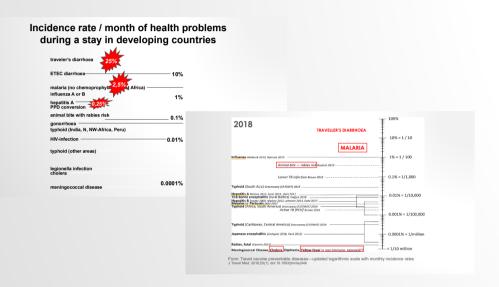
meningococcal disease

NEED TO REMAIN UP TO DATE - DISEASE PATTERNS CHANGE OVER TIME





WHAT IS WRONG WITH THESE SLIDES?



- **EUROPEAN Statistics**
- EUROPEAN Travellers...
- EUROPEAN Epidemiology

WE DON'T HAVE....

- AFRICAN Statistics
- AFRICAN Travellers...
- NO AFRICAN Epidemiology

NO EVIDENCE BASED (Vaccine) RECOMMENDATIONS FOR AFRICAN TRAVELLERS ...

SO WHO GETS WHAT?

- · CONSIDER:
 - The Destination
 - The Disease Risk
 - The Traveller

- The Cost
- The Vaccine

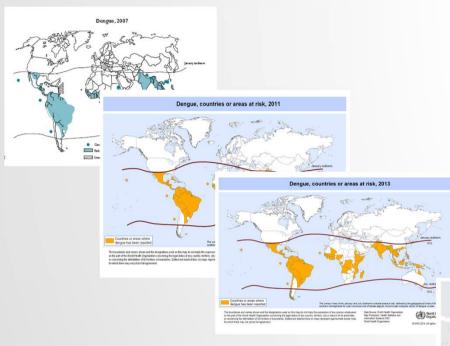
DDT CV

DESTINATION

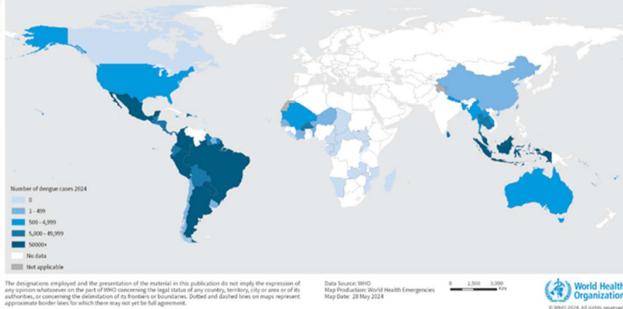
• WHERE IS HE GOING?

• TO DO WHAT?



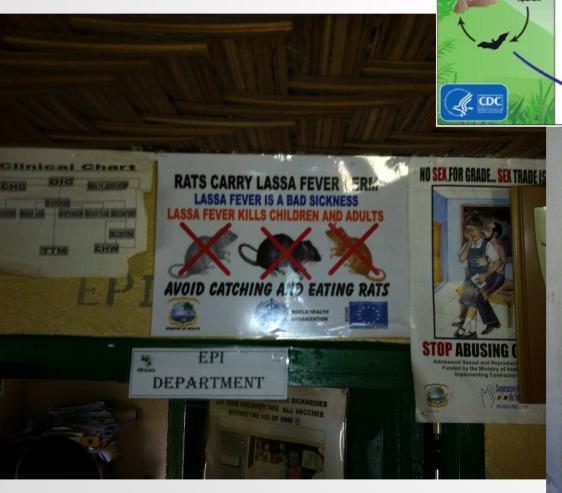


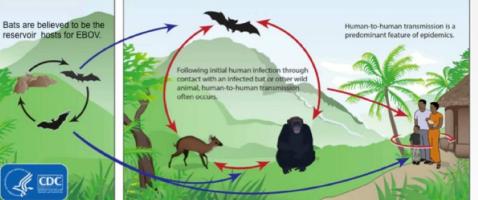
Geographical Spread of Disease

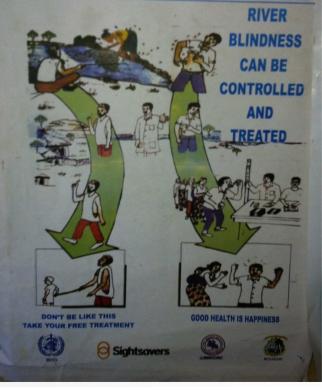


World Health Organization

DISEASE







THE TRAVELLER



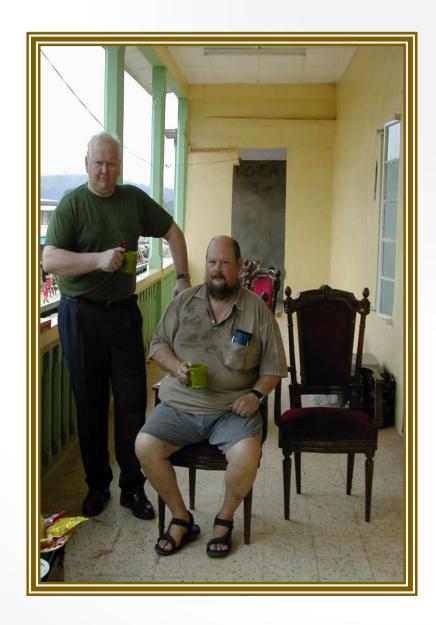
PRE-POSTING MEDICAL SCREENING

Determine pre-existing illness

- Unacceptable risk to traveller's health
- Medico-legal and / or

financial risk to employer

- Travel Health Education
- Appropriate Vaccination
- Preventive and Prophylactic Measures



CV

- COST
 - Of the DISEASE
 - Of the Vaccine

- VACCINE
 - Availability?
 - Efficacy?
 - Side-effects?







Health Topics ~

Home / News / Nearly 40 million ch

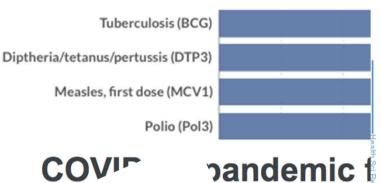
Nearl dange growi

23 November 2022

Global vaccination coverage, World, 2021

Share of one-year-olds who have been immunized against a disease or a pathogen.





Health Science Reports

Open Acces

<u>Health Sci Rep.</u> 2022 Mar; 5(2): e00516. Published online 2022 Feb 18. doi: 10.1002/hsr2.516 PMCID: PMC8855492

PMID: 35224217

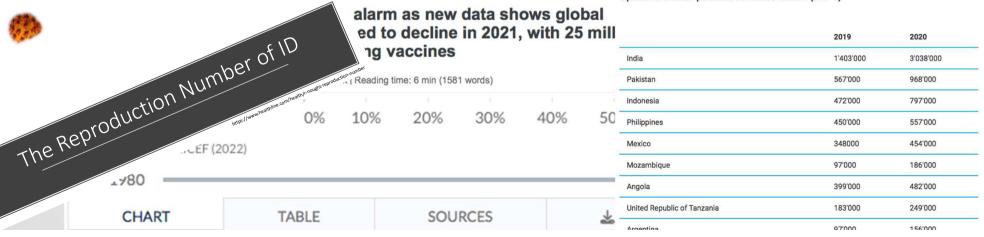
Impact of COVID-19 pandemic on routine vaccination coverage of children and adolescents: A systematic review

SeyedAhmad SeyedAlinaghi, ¹ Amirali Karimi, ² Hengameh Mojdeganlou, ³ Sanam Alilou, ² Seyed Peyman Mirghaderi, ² Tayebeh Noori, ⁴ Ahmadreza Shamsabadi, ⁵ Omid Dadras, ⁶ Farzin Vahedi, ² Parsa Mohammadi, ² Alireza Shojaei, ¹ Sara Mahdiabadi, ² Nazanin Janfaza, ⁷ Abolfath Keshavarzpoor Lonbar, ⁸ Esmaeil Mehraeen, ⁸ and Jean-Marc Sabatier





Table 1: Countries with the greatest increase in children not receiving a first dose of diphtheria-tetanus-pertussis combined vaccine (DTP-1)



THINGS THEY ARE A CHANGING!

- HEPATITIS A
- MEASLES
- POLIO
- DIPHTHERIA...

• PERTUSSIS....



TRAVELLER'S RISK ASSESMENT

INFECTION	INCIDENCE	IMPACT	TOTAL	IMMUNISATION
				YES NO
Hepatitis A	+++	++	++++	Rational
Hepatitis B	++	+++	++++	
Rabies	++	++	++++	s
Polio	(+)	+++	+++(+)	Doctor or Traveller, with side-effects or 'Cost-conscious'
Yellow Fever	(+)	+++	+++(+)	eff col
Typhoid	++	+	+++	de- ost-
Influenza	++(+) + ?	(+) +	+++++	cto 1 Si
Diphtheria	(+)	++	++(+)	Doc with s or '(
Tetanus	(+)	++	++(+)	
Meningococcus	(+)	++	++(+)	utio urde
Jap B Encephalitis	(+)	++	++(+)	Overcautious unconcerned vertical terms of the Hazardous
Cholera	+	+	++	Ovo
Measles	(+)	+	+(+)	

NON-VACCINE PREVENTABLE DISEASES

- HIV/AIDS
- African Tick Bite Fever
- Sleeping sickness
- Schistosomiasis
- Injuries
- Pre-existing / age relater disease
- Travel insurance cover

Etc.





INFECTIOUS DISEASE KNOWS NO BORDERS

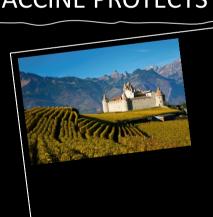
NO MORE CASTLES ...

WE ALL LIVE IN A GLOBAL VILLAGE

ONE VIRUS AFFECTS ALL...

ONE VACCINE PROTECTS ALL!

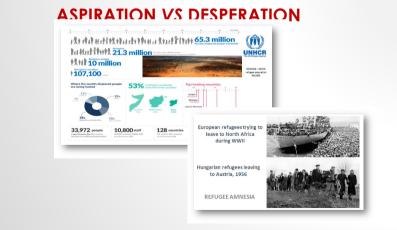




MIGRANTS ARE TRAVELLERS...







Vaccin



VACCINES ARE NOT JUST FOR...

The Small Fry

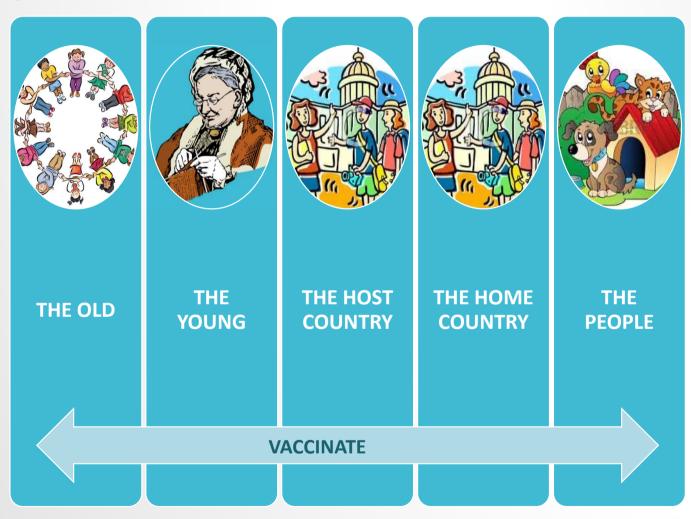
The Traveller

The Elderly

The Infirm



IF WE VACCINATE...







Whether your STAY or STRAY, you should consider having your travel, teen and adult vaccinations updated!

0861 300 911 www.traveldoctor.co.za





VACCINES FOR ALL



THINGS YOUR MOTHER NEVER TOLD YOU!



NOT ONLY YOUR FACE

WASH! If everyone had reliable sanitation and drinking water and practised appropriate hygiene, 4% of deaths and 7% of the global disease burden would disappear

Not everybody has this!



BETTER **HYGIENE**

Better hygiene, sanitation & clean water protect people from infectious reaardless...

Vaccines to the rescue!



MORTALITY

"The impact of vaccination on the health of the world's peoples is hard to exaggerate. Except for safe water, no other modality has had such a major effect on mortality reduction and

(Plotkin and Mortimer, 1988)

So, Mother had you vaccinated!



CHECK THE NEWS

If people are not vaccinated, diseases that have become uncommon such as measles, whooping cough, diphtheria and polio, will quickly reappear.

VACCINES **ARE NOT JUST FOR** CHILDREN

- Immunity from vaccines may wane over time: Get a booster, e.a., tetanus, whooping cough
- Some diseases change all the time, e.g., influenza: Get an annual 'flu shot to protect against the latest virus strain
- Some diseases affect the elderly and immunocompromised adults more, e.a., shingles: Ask about the vaccine

AVOID CANCER

- · Human papilloma virus vaccine protects against female cervical and head and neck cancer in women and men
- Hepatitis B vaccine prevents liver cancer as well as cirrhosis

REDUCE CARDIO VASCULAR

RISK DISFASE

Influenza associated inflammation increases your risk of heart attack and stroke! An Influenza vaccine reduces this risk.





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SOUTH AFRICAN ADULT* VACCINE SCHEDULE

* Persons 19 years and older. List based on Amayeza-info.co.za schedule for 2023

FOR EVERYONE WHO MEETS THE AGE REQUIREMENT AND HAVE NO CONTRAINDICATIONS

Influenza	Every year	
Tetanus, Diphtheria, Pertus	is, (Polio) Every ten years	
Measles, Mumps, Rubella	One or two dose	
Chickenpox	Two doses 6 weeks apart	
Human Papilloma Virus	Three doses over 6 months	
Hepatitis A	Two doses over 6-12 months	
Hepatitis B	Three doses over 6 months	
Rabies – Pre-exposure	Two dose over I week	
Pneumococcal	Two doses over 2 years	
Shingles (Herpes zoster)	One dose	
Meningococcal	One dose	

4

- · Persons born after 1994 may have had a full course of Hepatitis B as part of the childhood vaccine schedule
- · Persons who have had confirmed measles, mumps, rubella, chickenpox have lifelong immunity and do not need to be vaccinated
- · Even if a person has had pertussis or diphtheria or had been vaccinated in childhood, they need boosters later
- · All fully vaccinated adults need a single adult polio booster
- Infection with hepatitis A confers lifelong immunity no vaccine needed
- . Everyone who has had chickenpox are at risk of developing shingles later in life
- · Persons living with chronic disease (Diabetes, cardiac, renal, respiratory, immune-suppression) are at increased risk and should receive a pneumococcal vaccine
- People who have had their spleen removed must always receive meningococcal and pneumococcal vaccine
- . Bone marrow and some other cancer patients who have had chemotherapy must be vaccinated again against
- Rabies is endemic in South Africa and rabies vaccine and immunoglobulin are becoming more difficult to
- source. Certain workers, joggers and cyclists are at particular risk and should consider pre-exposure prophylaxis Yellow fever does not occur in South Africa, but travellers to yellow fever affected countries must be vaccinated for their own protection and / or to comply with the International Health Regulations (WHO)







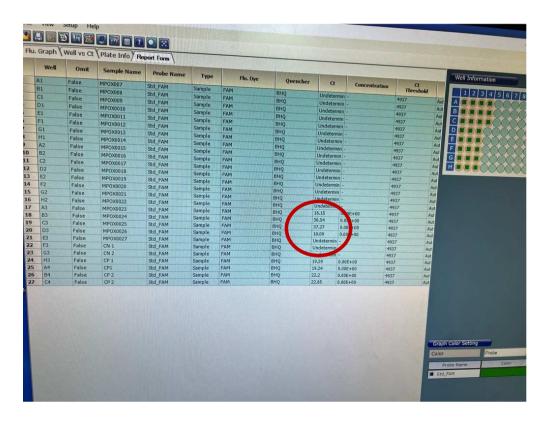
Is Mpox / should Mpox be a

"Travel Vaccine" ????





Mpox



New Online

Views 703 | Citations 0 | Altmetric 2

Medical News in Brief

FREE

October 18, 2024

CDC Recommends Mpox Vaccine for Travelers to Central and Eastern Africa

Samantha Anderer

Article Information

JAMA. Published online October 18, 2024. doi:10.1001/jama.2024.21298



Mpox Resource Center

The US Centers for Disease Control and Prevention (CDC) issued an updated advisory outlining prevention strategies for people visiting countries with widespread clade I mpox virus outbreaks. These strategies include getting the modified vaccinia Ankara-Bavarian Nordic (JYNNEOS) vaccine, which the World Health Organization recently pregualified.

Currently, countries with clade I mpox outbreaks include the Democratic Republic of the Congowhere more than 21000 cases are suspected—along with such neighboring countries as Burundi Central African Republic, Rwanda, and Uganda Clinicians should discuss mpox prevention and risk strategies with any traveler, regardless of sexual orientation or gender, anticipating sexual activity while visiting these countries, the CDC stated. This includes beginning the 2-dose JYNNEOS vaccine series at least 6 weeks before departure to build up immunity, the agency added.

Complementing these guidelines, the US National Institutes of Health released a new list of priorities for mpox research. The agenda includes several main priorities, including increasing knowledge of the different virus strains that cause mpox; advancing both existing and new treatments, such as monoclonal antibodies; and bolstering detection to make it easier to track the virus as well as care for those who have it.



MPOX IN MALAWI

District	Confirmed Cases
Lilongwe	93
Blantyre	3
Mangochi	3
Salima	3
Ntcheu	3
Likoma	2
Nkhatabay	1
Mzimba South	1
Ntchisi	1
Karonga	1
Zomba	1
Chitipa	1

Timeline of Confirmed Cases

September 8, 2025

Two new cases confirmed: A 40-year-old male from Area 36 and a 27-year-old female from Biwi, both in Lilongwe. This brought the total to 99 cases.

September 12, 2025

Three new cases confirmed: A 45-year-old female (Lilongwe), a 12-year-old male (Salima), and a 4-year-old female (Lilongwe). This updated the total to 102 cases.

September 13, 2025

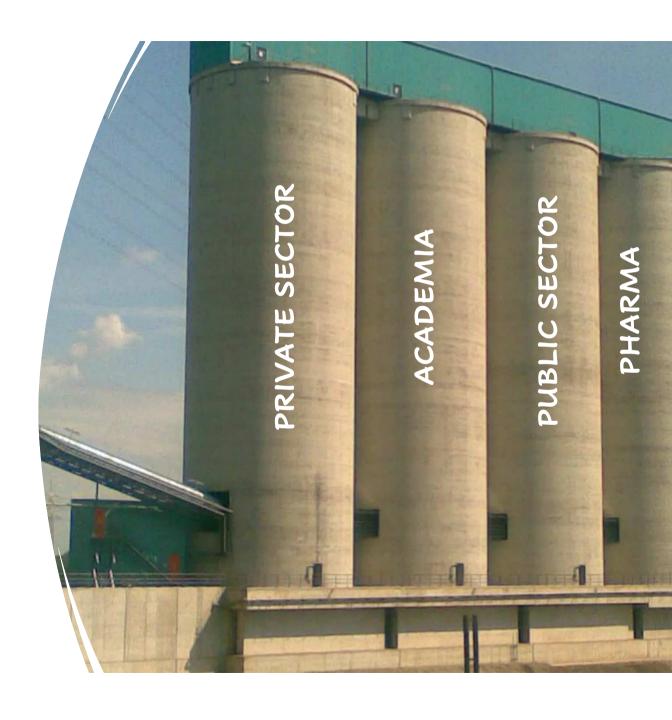
Eight new cases confirmed: All from Lilongwe district, bringing the cumulative total to 110 cases. The cases included a 14-year-old female, a 22-year-old female, an 8-year-old male, a 4-year-old female, a 15-year-old female, a 4-year-old female, a 33-year-old male, and a 15-year-old female.

September 21, 2025

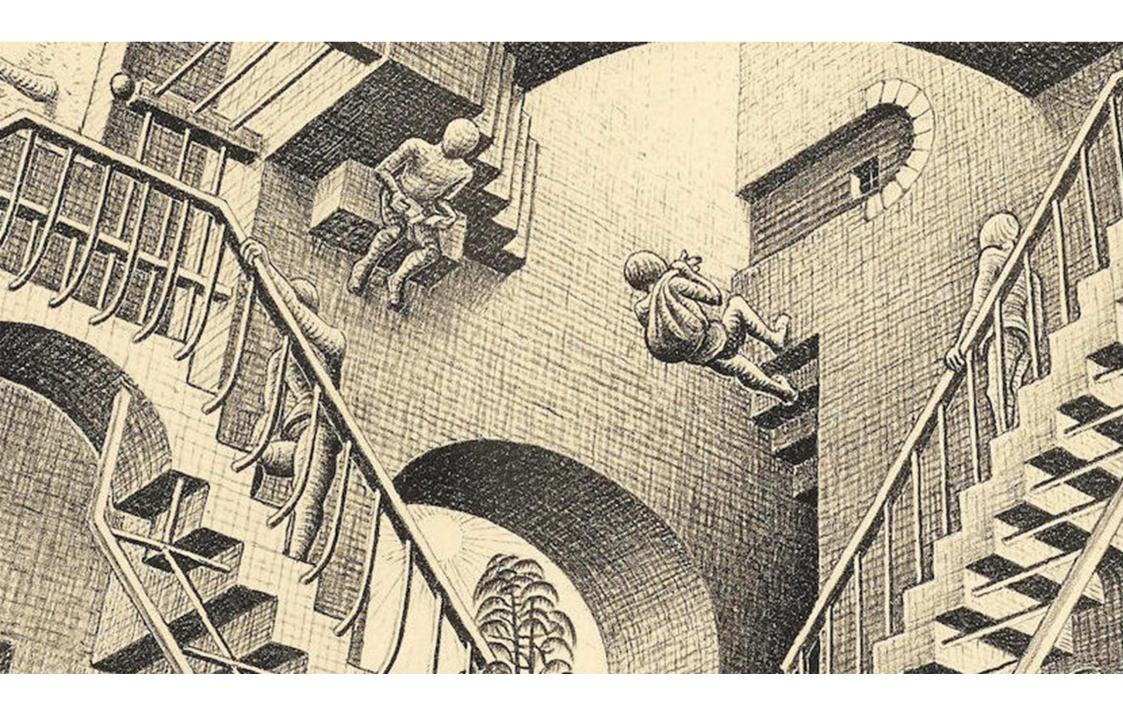
One new case confirmed: A 22-year-old male businessman from Lilongwe, bringing the total to 111 cases. He reported symptoms on September 15, and the infection was confirmed on September 17.

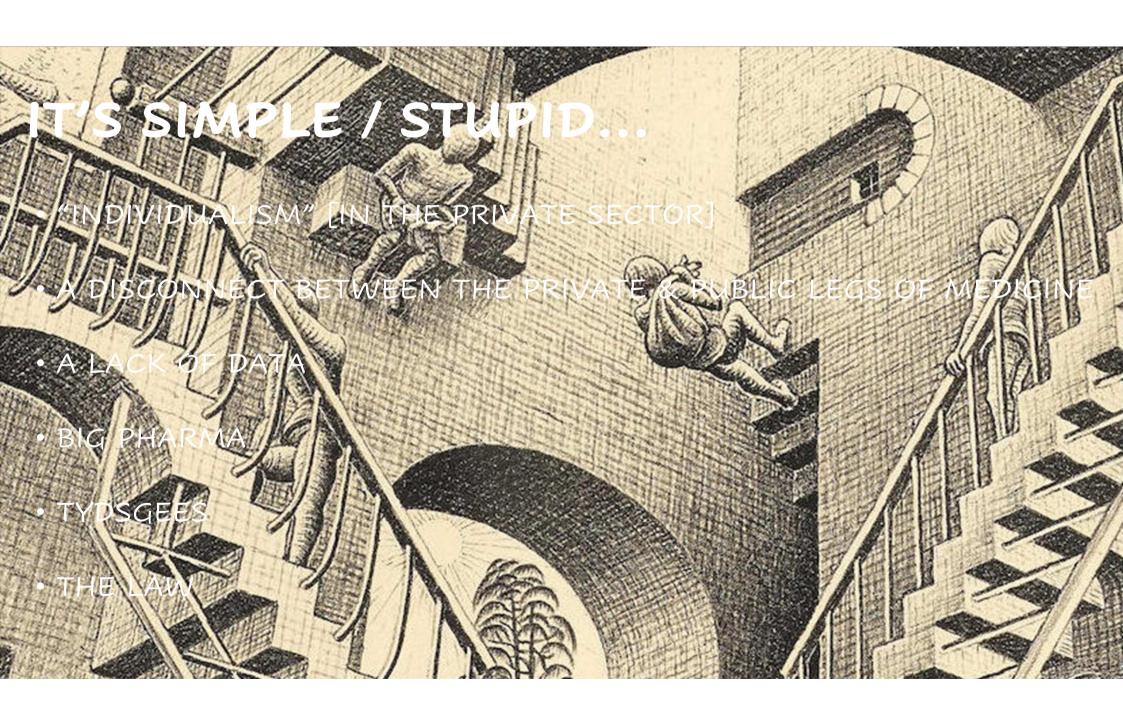
PRIVATE / PUBLIC DISCONNECT

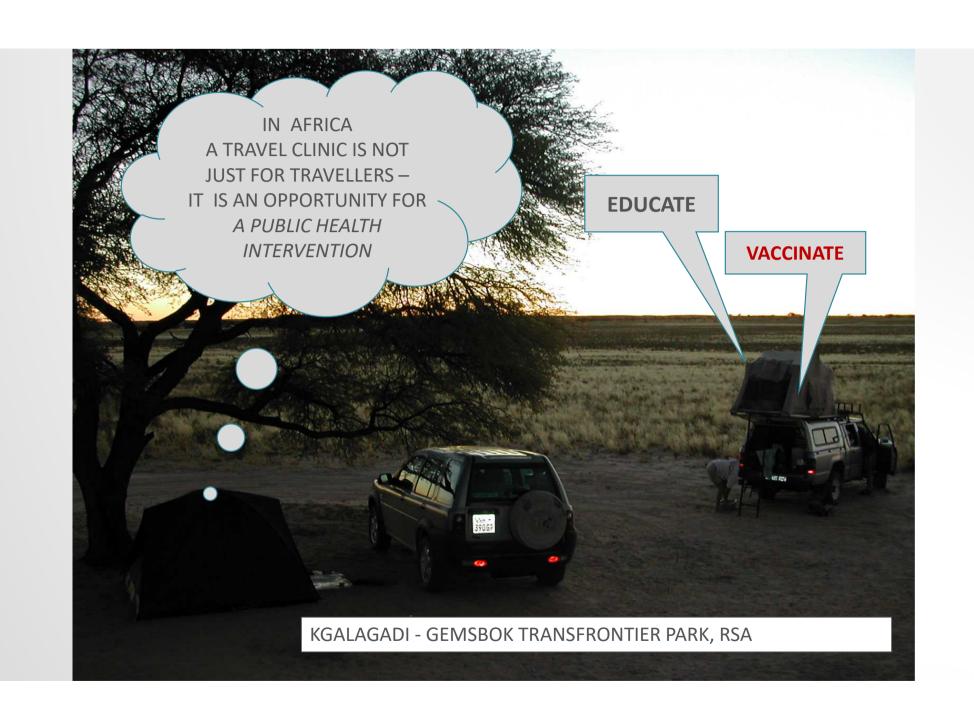
- WE DON'T SPEAK (ANYMORE)
- PRIVATE / PUBLIC / ACADEMIC / PHARMA INDUSTRY

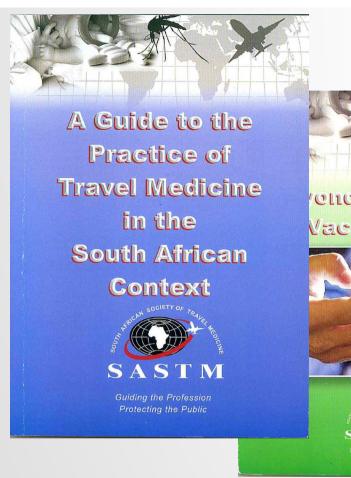












end Childheed Vaccin **-

INTERNATIONAL TRAVEL AND HEALTH , CHAPTER 6

Vaccine-preventable diseases and vaccines

Vaccination is the administration of agent-specific, but relatively hamnless, antigenic components that in vaccinated individuals can induce protective immunity against the corresponding infectious agent. In practice, the terms "vaccination" are "mmunization" are often used interchangeably

Vaccination is a highly effective method of preventing certain infectious diseases. Vaccines Vaccination is a nignly effective method or prevening certain intectious diseases, vaccines are generally very safe, and serious adverse reactions are uncommon. Routine immunization programmes protect most of the world's children from a number of infectious diseases that previously caused millions of deaths each year. For travellers, vaccination offers the possibility of avoiding some infectious diseases that may be encountered abroad. However, satisfactory vaccines have not yet been developed against several of the most life-threatening

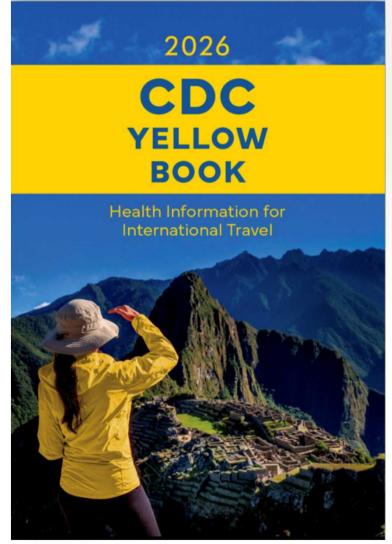
6.1.2 Vaccination and other precautions

No vaccinees, including travellers, should assume that there is no risk of contracting the disease(s) against which they have been vaccinated. For example, vaccination is not a substitute for avoiding potentially contaminated flood and water. Consequently all additional precautions against infection should be carefully considered.

Before departure, travellers should be advised about the risk of disease in the country or nerore uprarties, traveiters stoute for survived about the riss, or disease in the country or countries they plan to visit and the steps to be taken to prevent illness. No single vaccination schedule suits all travellers. Each vaccination schedule must be personalized according to the traveller's previous immunizations, bealth status and risk factors, the countries to be visited, the type and duration of travel, and the amount of time available before departure.

A medical consultation before departure is a good opportunity for the health-care provider to review routine immunizations and update them in addition to providing the travel immunizations indicated for the specific timerary.

Following vaccination, the immune response of the vaccinated person varies according to the type of vaccine, the number of doses administered, and whether the person has been vaccinated previously against the same disease. For this reason, travellers are advised to consult a travel medicine practitioner or physician 4–8 weeks before departure in order to allow sufficient time for optimal immunization schedules to be completed. How



https://www.who.int/ith/ITH-Chapter6.pdf?ua=1





Health Topics v

Home / News / Fact sheets / Detail / Pollomyelitis

Poliomyelitis

1 March 2019

Key facts

- Polio (poliomyelitis) mainly affects children under 5 years of age.
 1 in 200 infections leads to irreversible paralysis. Among those paralysed, 5% to 10% die when their breathing muscles become immobilized.
- when their oreasting muscless become immonitures.

 Classe due to wild poliovirus have discreased by over 99% since 1988, from an estimated 350 000 cases then, to 33 (1) reported cases in 2018.

 As long as a single child remain infected, children in all countries are at risk of contracting polio. Failure to eradicate polio from these last remaining strongholds could result in as many as 200 000 new cases every year, within 10 years, all over the world.
- In most countries, the global effort has expanded capacities to tackle other infectious diseases by building effective surveillance and immunization systems.

Symptoms

Polis is a highly infectious desease custed by a virus. It invades the nervous system, and can cause botal paralysis in a mattear frobust. The virus it transmitted by person-expected praisily through the feesional route of, less frequently, by a common vehicle for example, consensated valer or foot) and multiplies in the intellistic. Holds also proportions are fever, fragious, headders, verning, soffered or lend of pain in the limbs. In 200 infections leads to irreversible paralysis (usually in the legs). Among those paralyses, (5% to 10% die where their breathing mustelles become immobilized.

People most at risk

Polio mainly affects children under 5 years of age

Prevention

There is no cure for polio, it can only be prevented. Polio vaccine, given multiple times, can protect a

Global caseload

Wild policylrus cases have decreased by over 99% since 1988, from an estimated 350 000 cases in more than 125 endemic countries then, to 33 (1) reported cases in 2018.

Of the 3 strains of wild poliovirus (type 1, type 2, and type 3), wild poliovirus type 2 was eradicated in 1999 and no case of wild poliovirus type 3 has been found since the last reported case in Nigeria in November 2012.

WHO Response

Launch of the Global Polio Eradication Initiative

In 1988, the Forty-first World Health Assembly adopted a resolution for the worldwide eradication of polio. It marked the ilsunch of the Global Polio Eradication Initiative (GPEI), speathwased by national governments, WHO, Rotary International, the US Center for Disease Control and Prevention (CDC), UNICEF, and supported by key partners including the Bill & Melinica Gates Foundation. This followed the certification of the eradication of smallpox in 1980, progress during the Pilots towards elimination the poliovirus in the Americas, and Rotary International's commitment to raise funds to protect all critifizers from the disease.

Overall, since the GPEI was launched, the number of cases has fallen by over 99%.

In 1994, the WHO Region of the Americas was certified polic-free, followed by the WHO Western Placific Region in 2004 and the WHO European Region in June 2002. On 27 March 2014, the WHO interrupted in his bids of 11 countries stretching from flooriesals to India. This achievement marks a significant leap forward in global eradication, with 80% of the world's population now living in certified policifier region.

More than 16 million people are able to walk today, who would otherwise have been paralysed. An estimated 1.5 million orhidhood deaths have been prevented, through the systematic administration of vitamin A during polio immunization additions.

Opportunity and risks: an emergency approach

The strategies for polio eradication work when they are fully implemented. This is clearly demonstrated by India's success in stopping polio in January 2011, in arguably the most technically-challenging place and polio-free certification of the entire South-East Asia Region of WHO courred in March 2014.

Failure to implement strategic approaches, however, leads to ongoing transmission of the virus. Endemic transmission is continuing in Afghanistan, Nigeria and Pakistan. Failure to stop polio in these last remaining areas could result in as many as 200 000 new cases every year, within 10 years, all over the world.

Recognizing both the epidemiological opportunity and the significant risks of potential failure, the "Polic Emdication and Endgame Strategie Plarir was developed, in consultation with polic effected countries, presented at a Global Viscoie Surmin in Abu Data). Lindel Arab Emirates, at the end of April 2013, it is the first plan to eradicate all types of polic disease simultaneously – both due to wild policyirus and due to vaccine-developiciviruses.

Future benefits of polic eradication.

Once polio is eradicated, the world can celebrate the delivery of a major global public good that will benefit all people equally, no matter where they live. Economic modelling has found that the eradication of polio would save at least US\$ 40-50 billion, mostly in low-income countries. Most importantly, success will mean that no child will ever again suffer the terrible effects of lifelong polio-paralysis.



Poliomyelitis

Gregory S. Wallace, James P. Alexander, Steven G. F. Wassilak

PREVENTION

Vaccine

Recommendations for Health Protection

In the United States, infants and children should be vaccinated against polio as part of a routine immunization series (see Infants and Children below). Polio vaccination is recommended for all travelers to countries with wild poliovirus (WPV) circulation. Countries are considered to have WPV circulation if they have evidence during the previous 12 months of ongoing endemic circulation, a polio outbreak, or environmental evidence of wild poliovirus circulation. For additional information on countries with WPV circulation and vaccine recommendations, consult the travel notices on the CDC Travelers' Health website (www.cdc.gov/travel) or the weekly update of reported WPV cases at the GPEI website (www.polioeradication.org/Dataandmonitoring/Poliothisweek.aspx 49).

Before traveling to areas that have WPV circulation, travelers should ensure that they have completed the recommended age-appropriate polio vaccine series and that adults have received a single lifetime IPV booster dose. In addition, CDC recommends a single lifetime IPV booster dose for certain adult travelers to some countries that border areas with WPV circulation. These recommendations are based on evidence of historical cross-border transmission. The recommendations apply only to travelers with a high risk of exposure to someone with imported WPV infection. These travelers would include those working in health care settings, refugee camps, or other humanitarian aid settings. Since the situation is dynamic, refer to the CDC Travelers' Health website destination pages for the most up-to-date polio vaccine recommendations (www.nc.cdc.gov/travel/destinations/list).

To eliminate the risk for VAPP IPV has been the only policy vaccine available in the United States since 2000; however, OPV continues to be used in many countries and for global polio eradication activities. For complete information on recommendations for poliomyelitis vaccination, consult the Advisory Committee on Immunization Practices recommendations website (www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/polio.html).

Country Requirements

On May 5, 2014, the World Health Organization (WHO) declared the international spread of polio to be a public health emergency of international concern (PHEIC) under the authority of the International Health Regulations (2005) and issued temporary vaccination recommendations for travel to prevent further spread of the disease (www.who.int/mediacentre/news/statements/2014/polio-20140505/en/ €). WHO will be reassessing the situation periodically, so requirements may change. Refer to the Clinical Update: Interim CDC Guidance for Travel to and from Countries Affected by the New Polio Vaccine Requirements for a list of affected countries and for guidance on meeting the vaccination requirements

(Updated July 25, 2014)

Infants and Children

In the United States, all infants and children should receive 4 doses of IPV at ages 2, 4, and 6-18 months and 4-6 years. $The final dose should be administered at age \ge 4 \, years, regardless of the number of previous doses, and should be given the final dose should be administered at age \ge 4 \, years, regardless of the number of previous doses, and should be given the final dose should be administered at age \geq 4 \, years, regardless of the number of previous doses, and should be given the final dose should be administered at age \geq 4 \, years, regardless of the number of previous doses, and should be given the final dose should be administered at age \geq 4 \, years, regardless of the number of previous doses, and should be given the final dose should be administered at age \geq 4 \, years, regardless of the number of previous doses, and should be given the final dose should be$ >6 months after the previous dose. A fourth dose in the routine IPV series is not necessary if the third dose was administered at age ≥4 years and ≥6 months after the previous dose. If the routine series cannot be administered within the recommended intervals before protection is needed, the following alternatives are recommended:

- The first dose should be given to infants ≥6 weeks old.
- The second and third doses should be administered ≥4 weeks after the previous doses.
- . The minimum interval between the third and fourth doses is 6 months.



SOUTHERN AFRICAN SOCIETY OF TRAVEL MEDICINE

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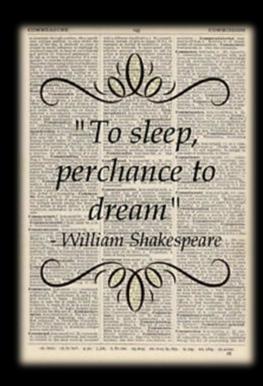
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Asante Sana Thank You Muito Obrigado Merci Beaucoup That travel health in Africa will contribute to creating a high level of awareness of the importance of immunisation —

Not only amongst travellers but also amongst the general public.

So that we can dream of a world free of vaccine preventable disease..."

Zikomo Kwambiri Baie Dankie هکرًا لك Re a le Boga