











Who provides travel health advice? and performs the risk assessment, passing them on to the nurse to administer the vaccines and give some advice More recently pharmacists have become involved in travel medicine, especially in Canada and the UK In the UK, nurses have been undertaking all aspects of travel health since the early 1990s, from risk assessment to administration of vaccines and providing risk management advice. prescribing qualification are not only prescribing but in some circumstances setting up and owning their own travel clinics

# Why is the practice of travel medicine different in the UK? National Health Service provides some travel vaccines free of charge – service provided in the majority of primary care settings as GPs are financially rewarded for the service Pressure on GPs with their workload so historically, they passed

ield VF, Ford L, Hill DR, eds. Health Information for Overseas Travel, lational Travel Health Network and Centre, London, UK, 2010.

immunisation services

Some surgeries are ceasing the provision of a travel service – however, they are NOT allowed to do this unless they surrender the provision of the global sum which they receive for

travel health on to the nurses, but now pharmacists are getting

very involved as well, with private clinics are growing dramatically

DOWN PRINTS



# **Charging for travel vaccines** in an NHS setting - covered in day 2 Vaccines that must always be given as part of NHS provision (hepatitis A all doses, combination A+B all doses, typhoid,

- combination typhoid and hep A, polio and cholera)
- Vaccines that cannot be given as an NHS service (yellow fever, Japanese encephalitis, tick borne encephalitis and rabies for travel and more recently ACWY for travel – but see FAQ page)
- Vaccines that can be given as NHS or private service

Note: Cholera and oral typhoid vaccines are now only NHS vaccines in an NHS setting

see http://www.janechiodini.co.uk/news/faqs/faq-no-2/









# New inclusions - Page 9

A statement is included for those who run Yellow Fever Vaccination Centres in the UK acknowledging that whilst YF training is not mandatory for all individuals administering the vaccine, both NaTHNaC and Health Protection Scotland (HPS) recommend:

all those responsible for administering YF vaccine complete the training for their own accountability and good practice

DOWNERS IN

ral College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RCN.

### **New inclusions**

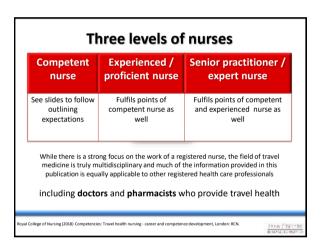
- There is now greater awareness of the potential identification of a traveller within a consultation going abroad for the purpose of FGM or of forced marriage. These topics are included within the sections for young travellers, female travellers, plus FGM is included in the risk assessment form (p. 12, 15, 29).
- Similarly, LGBT and transgender travellers are highlighted (page 13).

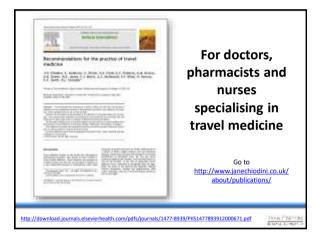
oyal College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RCN.

Down French



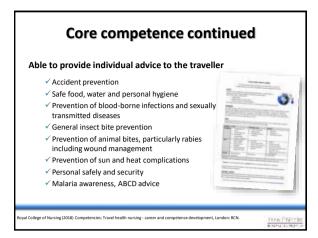






# Core competence for the Competent Nurse (or practitioner) in a travel health consultation (pages 21/23) Demonstrates good geographical knowledge Able to perform risk assessment effectively and understands how to interpret potential risk within a trip Knows where to 'go' for recommendations for travel advice, immunisations, malaria chemoprophylaxis Recognises limit of knowledge and knows when to refer appropriately Has good knowledge of common travel related illnesses e.g. TD, hepatitis, typhoid, malaria





# **Core competence continued**

- Communicates information effectively
- Prioritises in a situation when traveller is on a limited budget
- Assesses anxieties and acts appropriately
- Demonstrates an excellent vaccine administration technique
- Completes patient and administrative records after vaccination

oyal College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RC

DOW PINE

# **Education and Training - page 23**

- Demonstrates evidence of learning to apply skills and knowledge in the field of travel medicine. For example, minimum of 15 hours of relevant learning plus mentorship in clinical skills before undertaking a travel consultation alone
- Ensures travel health knowledge is always up to date
- Attends an annual travel health update study session/conference at a local, national or international event

Royal College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RCN.

WALL BY



# Risk Assessment & Management in Travel Health

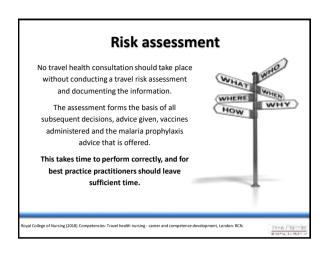


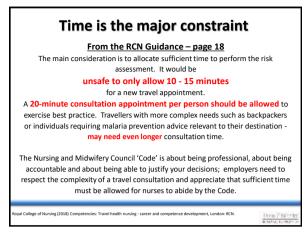
DOW/FIRST-R

### Aims and Objectives of this session

- To understand what risk assessment is
- To appreciate the elements of the risk assessment process
- To have a good understanding of the required knowledge and resources needed to perform a risk assessment
- To be able to apply these skills at the end of the course

DOWN THE B



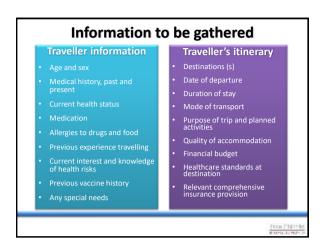


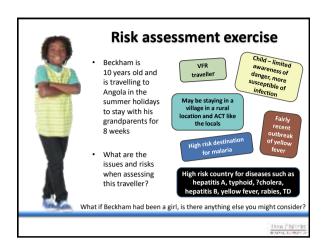








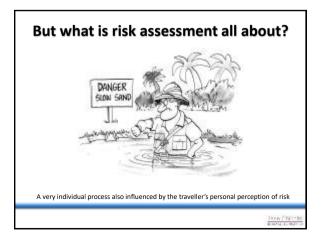




# Risk management Having performed a risk assessment the risks identified are managed by individualised advice • Medical preparation • Journey risks • Safety risks • Safety risks • Environmental risks • Food and water borne risks • Skin health • Psychological health

DOWNERS IN





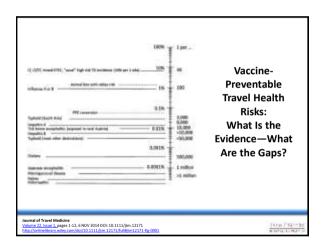


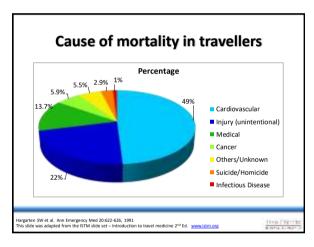
Copyright Jane Chiodini 2018. For personal use only, not to be distributed in any format please.

Field VF, Ford L, Hill DR, eds. Health Information for Overseas Travel, National Travel Health Network and Centre, London, UK, 2010.









Implications of the questions we ask

Many sources to increase your knowledge and understanding of pre-travel risk assessment in more detail – including on national databases and international resources

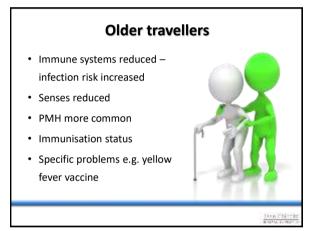
The following slides provide some examples ......
but please refer to the resources on previous slide for more information.

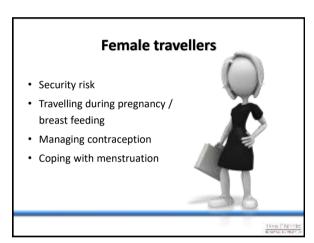


### **Babies and small children**

- Increased risk of other hazards e.g. accidents, encounters with animals – need for rabies post exposure
- Small, mobile, inquisitive toddlers, limited hygiene awareness
- Risk of illness more severe e.g travellers' diarrhoea, malaria – requiring medical treatment abroad
- Restrictions on some choices of vaccines and malaria chemoprophylaxis

Down't With

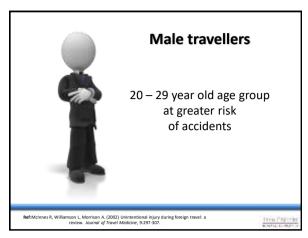


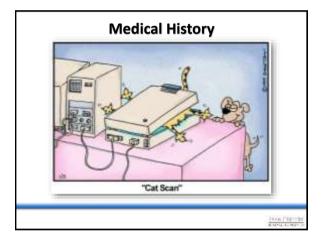


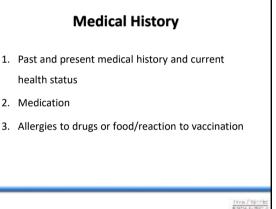




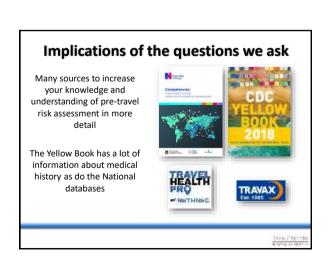




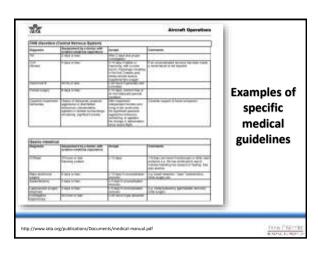




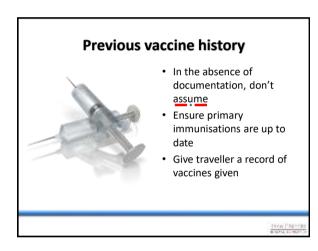
# For example: Specialist advice may be needed e.g. those with severe renal or liver disease & malaria chemoprophylaxis Recent surgery or long term medical problems such as respiratory disease may impact of travel and fitness to fly Immunosuppression – some live vaccines contra-indicated, other vaccines may be less effective Impact on travel insurance with many medical problems Elderly people on regular medication need to be aware of continuing regular administration Establishing true anaphylaxis





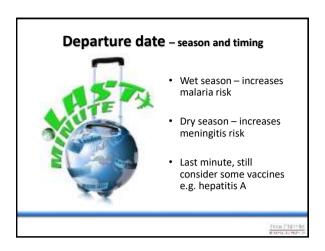


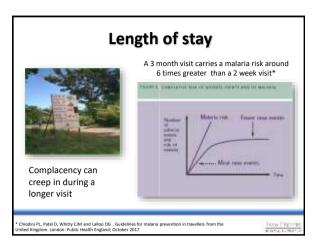


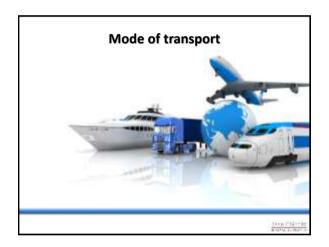








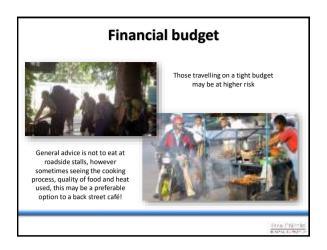




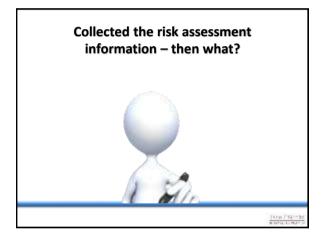


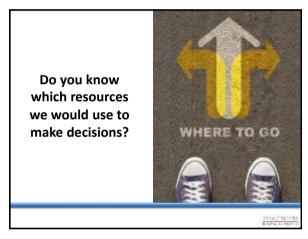








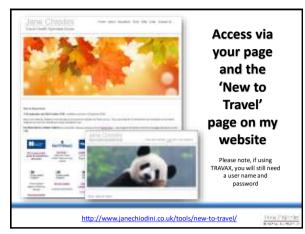












- Taking into consideration any patient specific factors (e.g. medical history, how high risk the destination is etc.) review the vaccines advised and decide what is needed – based also on previous vaccine history
- If a malarious area, also decide risk and identify appropriate chemoprophylaxis
- Consider advice required to manage the risks identified

Review the country specific information on a national database e.g. TravelHealthPro or TRAVAX



DOW/PROD

DOWNERS !

# Communicating the risk and providing advice

- Providing information about vaccines sufficient to provide adequate information to obtain informed consent
- Discussion of what is necessary and desirable taking time and cost into the equation
- Advising on malaria prevention advice and deciding with patient the most suitable chemoprophylaxis
- Delivering other appropriate travel health advice some will need to be in written format

DOWNER BOOK

# Advice leaflet that can be adapted for your use – See item no. 4 at <a href="http://www.janechiodini.co.uk/tools/">http://www.janechiodini.co.uk/tools/</a> - written in Word format for you to adapt

# Food, water and personal hygiene advice

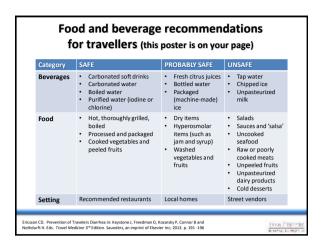
- · Always wash hands before eating or preparing food
- Boiled water, bottled water this includes ice cubes in drinks and water for cleaning your teeth
- Only eat well cooked fresh food
- Avoid leftovers and reheated food
- Ensure meat is thoroughly cooked
- Eat cooked vegetables, avoid salads
- Only eat fruit you can peel
- Never drink unpasteurised milk and avoid ice cream
- Shellfish is a high risk food

Drw Parts

- Studies have shown that the "Cook it, peel it, boil it
  or forget it" directive is not followed by many
  travellers and that conflicting results have been
  shown in the value of such strict advice
- New thinking in travel medicine is that food and drink can be placed into three categories
  - Safe
  - Probably safe
  - Unsafe
- There is no vaccine available for travellers' diarrhoea

Ericsson CD. Prevention of Travelers Diarrhea in: Keystone J, Freedman D, Kozarsky P, Connor B and Nothdurft H. Eds. *Travel Medicine* 3<sup>rd</sup> Edition. Saunders, an imprint of Elsevier Inc; 2013. p. 191-196

DOWN THE THE





# Travellers' diarrhoea advice

- High risk areas include North Africa, sub-Saharan Africa, the Indian Subcontinent, S.E. Asia, South America, Mexico and the Middle East
- Medium risk areas include the northern Mediterranean, Canary Islands and the Caribbean Islands
- Low risk areas include North America, Western Europe and Australia

### Management

- Rehydration
- Anti diarrhoeal tablets
- Standby emergency treatment could be an option for some

# Contact medical help if the affected person has:-

- A temperature
- Blood in the diarrhoea
- Diarrhoea for more than 48 hours (or 24 hours in children)
- Becomes confused

DOWNER BOOK

# Prevention advice for hepatitis B, C and HIV infection

- · Only accept a blood transfusion when essential
- If travelling to a resource poor country, take a sterile medical kit
- Avoid high risk procedures e.g. ear and body piercing, tattooing & acupuncture
- · Avoid casual sex, especially without using condoms

DOWNST NO. 10

# Malaria prevention advice - the ABCD rules! More information on malaria on day 2 of this course

### **Rabies advice**

- 1. Do not touch any animal, even dogs and cats
- If you are licked on broken skin, scratched or bitten in a country which has rabies, wash the wound thoroughly with soap and running water for 15 minutes then apply antiseptic.
- 3. Seek medical advice IMMEDIATELY, even if you have been previously immunised.

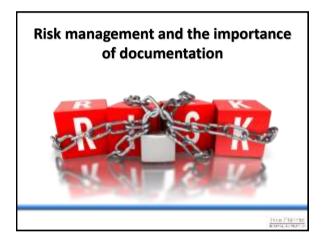
More information on rabies on day 2 of this course

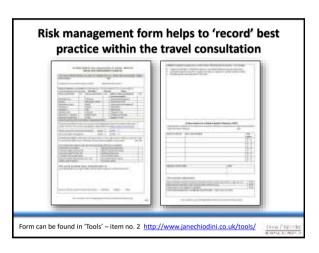
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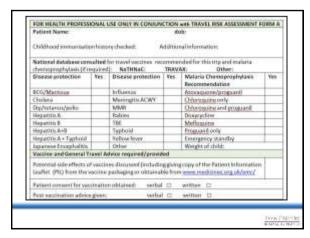
### Prevention of accidents advice

- · Avoid alcohol and food before swimming
- · Never dive into water where the depth is uncertain
- Only swim in safe water, check currents, sharks, jellyfish etc.
- · Avoid alcohol when driving, especially at night
- · Avoid hiring motorcycles and mopeds
- If hiring a car, rent a large one if possible, ensure the tyres, brakes and seat belts are in good condition
- Use reliable taxi firms, know where emergency facilities are

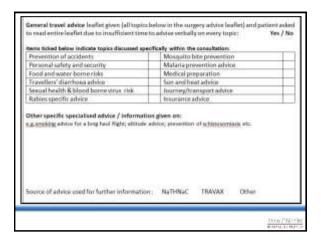
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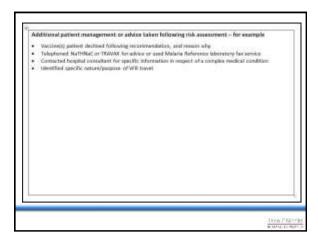


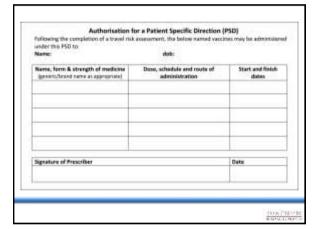


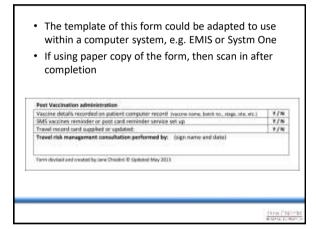


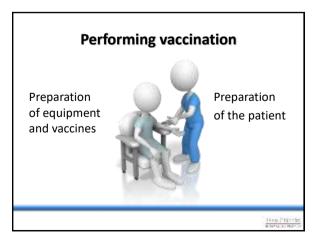


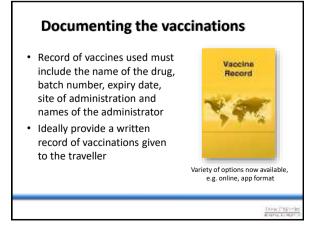








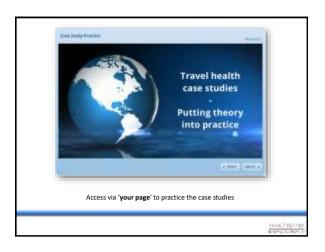




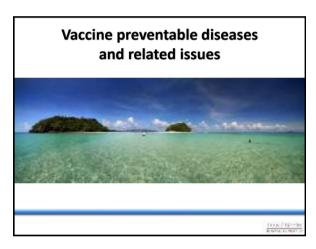
### Conclusion

- No travel health consultation should take place without conducting a travel risk assessment and documenting all the information
- The assessment forms the basis of all subsequent decisions, advice given, vaccines administered and malaria prophylaxis advice that is offered
- Risk assessment and management takes time to perform correctly, and for best practice practitioners should leave sufficient time
- · Good documentation is essential

PATENT:

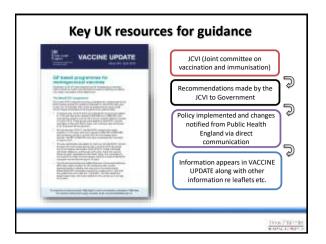






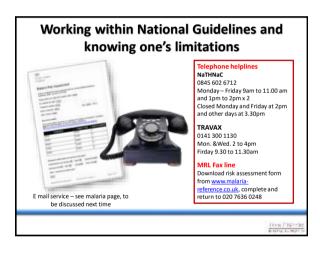




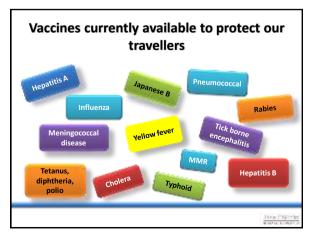


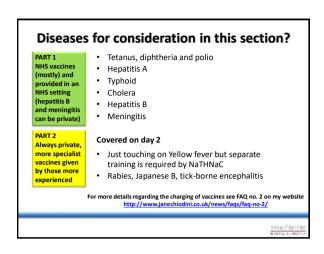


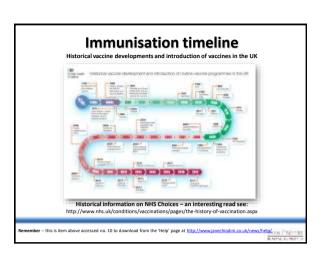


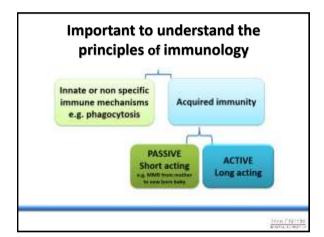


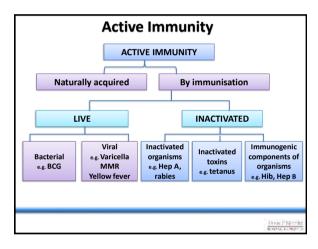


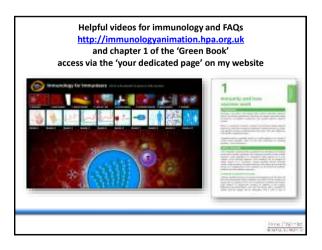














# Do you know what factors might effect the immune response to a vaccine?

Age

**Medical history** 

- Very young children (especially under 2 years) have difficulty developing an immune response to polysaccharide only vaccines, and conjugated vaccines are used where possible
- Immunocompromised individuals usually cannot receive live attenuated vaccines. Inactivated vaccines are usually safe, but their immune response may be inadequate

OW PRES

# When might there be a contraindication to vaccinate?



- In general, a vaccine is absolutely contraindicated if a person has a confirmed anaphylactic reaction to a previous dose of the vaccine or product contained in the vaccine
- Pregnant women present a special risk group where, if the disease exposure is considered high during travel, most vaccine can be offered, although caution should be used with live vaccines
- All centres administering vaccines must be adequately prepared to deal with anaphylaxis

DOW/PARTS

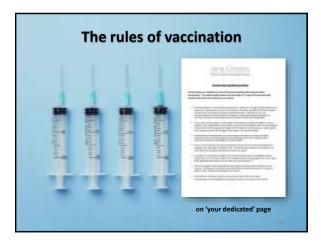
# Knowledge of the route we give vaccines and how soon they start to work is needed

- Most vaccines given by IM or SC route except BCG and oral vaccines (cholera and live typhoid)
- An active immune response to vaccines begins within a few days of administration and peaks in approximately 10-14 days
- Primary vaccine courses need 2 or 3 doses to complete the series



Down Parties

	Vaccine	Time until effective
	BCG	6 weeks
	Diphtheria	1-2 weeks after 3 <sup>rd</sup> dose
	Hepatitis A (active)	2 weeks for optimum protection (the average incubation period for the disease is 28 days so it is often still useful to give the vaccine even at short notice prior to travel)
Time for Vaccines to become effective	Hepatitis A immunoglobulin (passive)	Immediate
	Hepatitis B	I month after the 3 <sup>rd</sup> dose
	Japanese encephalitis	7 days after the 2nd dose, IXIARO® (Novartis) 1-2 weeks after the 2nd dose, Green Cross vaccine (MASTA)
Table adapted from TRAVAX	Measles/Mumps/Rubella (MMR)	2 weeks
	Meningococcal vaccines (including ACW135Y)	2 weeks
	Poliomyelitis (inactivated)	1-2 weeks after 3 doses
	Rabies	1-2 weeks (after the 3 <sup>rd</sup> dose)
	Tetanus	1-2 weeks after the 3 <sup>rd</sup> dose
	Tick-borne encephalitis	2 weeks after the 2 <sup>nd</sup> dose
	Typhoid injectable	1-2 weeks
	Yellow fever	10 days



Peter thinks he has had 2 doses of hepatitis A vaccine in the past, but nothing is documented. He's going to travel to do some research work in a hospital in India – what would you do?

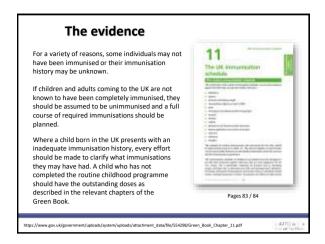
In the absence of documentation you cannot

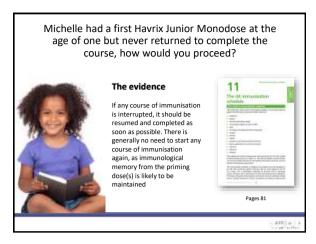
### ASSUME

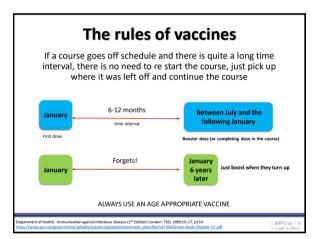
the patient has been vaccinated, therefore further vaccines for protection should be given



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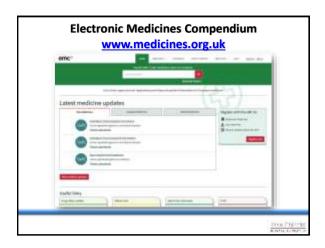






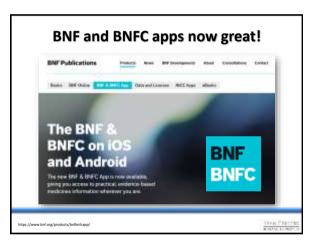
# Site of injection and number that can be given at one time? If two or more injections need to be administered at the same time, they should be given in separate sites, preferably in a different limb. If more than one injection is to be given in the same limb, they should be administered at least 2.5cm apart Immunisations should not be given into the buttock, due to the risk of sciatic nerve damage and the possibility of injecting the vaccine into fat rather than muscle<sup>2</sup>

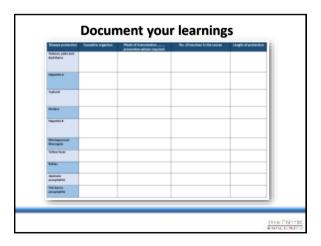
# Where do you obtain relevant vaccine information? Green Book – for diseases and vaccines, online The National Databases (NaTHNaC and TRAVAX) Patient Group Directions - in your workplace Electronic Medicines Compendium - online British National Formulary – book or online Pharmaceutical companies - online

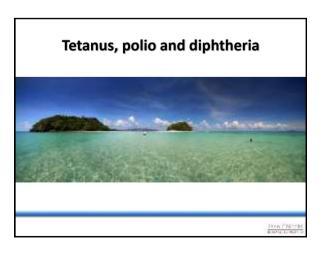


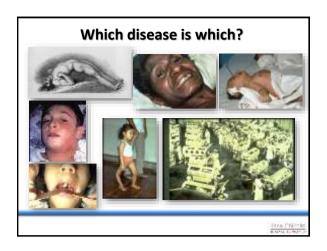


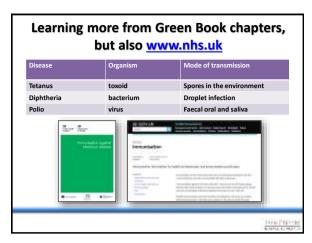




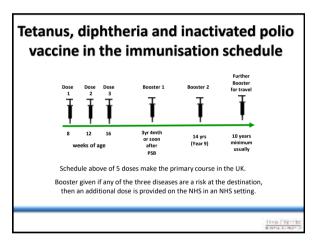


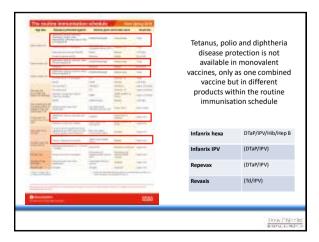


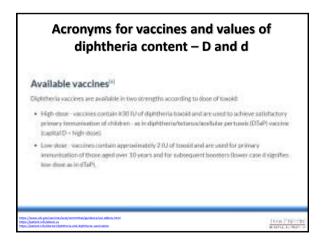














- Lucy is 19 years old and is going on a two week holiday in the Galapagos Islands
- She is up to date on all her scheduled national programme immunisations
- She hasn't travelled abroad before
- No PMH, she is on the OCP only



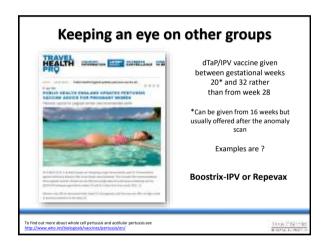


## Would this traveller need Td/IPV?

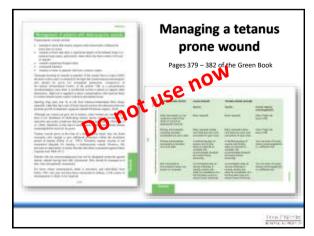


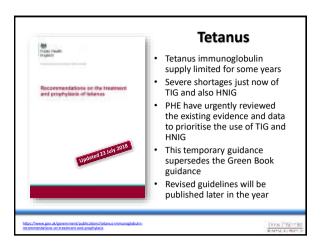
- James is 26 years old
- he's taking a one year career break back packing around the world
- He last had a tetanus vaccine as a school booster 9½ years ago at the age of 16

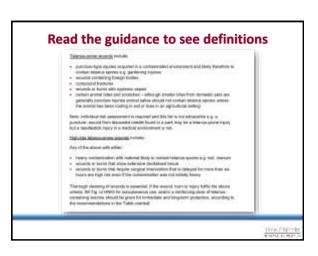
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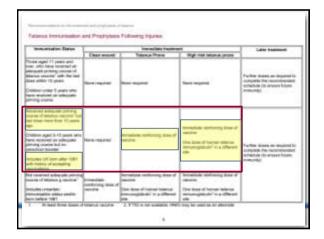




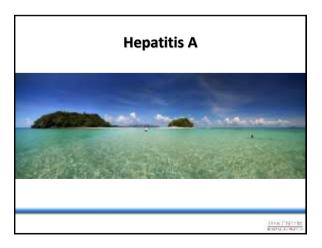


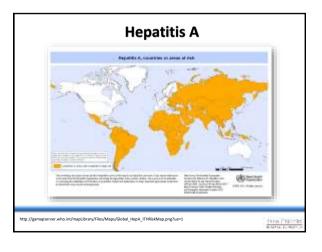


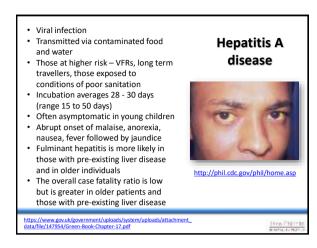


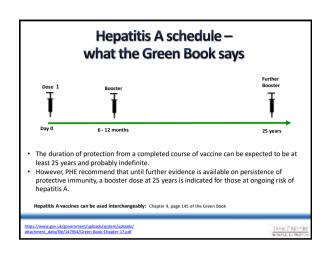


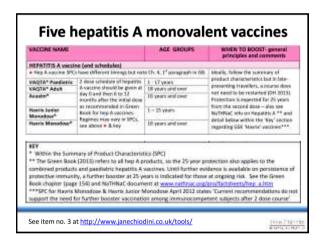




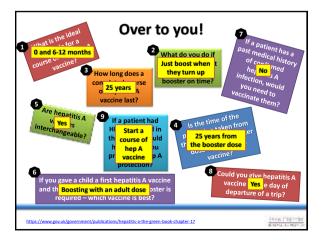


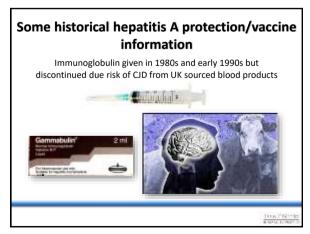












# Some historical hepatitis A protection and vaccine information

- Immunoglobulin given in 1980s and early 1990s but discontinued due risk of CJD from UK sourced blood products
- Hepatitis A vaccine introduced in 1992 Havrix had to give two doses prior to travel as it had 720 ELISA units of hepatitis A (three doses in total course)
- Havrix Monodose available from 1994 which had 1440 ELISA units of hepatitis A and only one dose required prior to travel (two doses in total course)
- Vaqta Adult problem in 1990s when some batches thought not to give protection – instructed at that time to disregard doses given previously and re-vaccinate. Vaqta Adult now available again
- See Nuggets of Knowledge hepatitis A

DOWN THE

### Would this traveller need hep A vaccine?

- Lucy is 19 years old and is going on a two week holiday in the Galapagos Islands
- She is up to date on all her scheduled national programme immunisations
- · She hasn't travelled abroad before
- · No PMH, she is on the OCP only
- · Which vaccine schedule would you give?



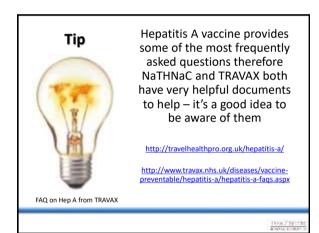
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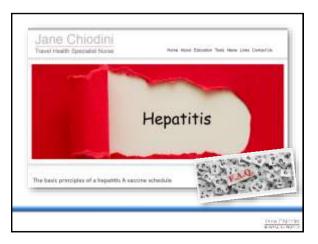
# Would this traveller need hep A vaccine?



- · James is 26 years old
- he's taking a one year career break back packing around the world
- He last had a tetanus vaccine as a school booster 9½ years ago at the age of 16
- He tells you he had one dose of hep A vaccine when he was 12 years old but there is no record of it in the notes
- · How would you proceed?

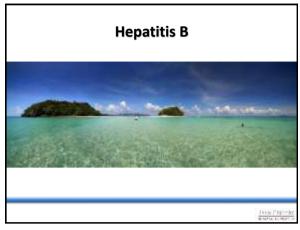
BOW PRICE











## updated July 2017 Hepatitis B is a viral infection that attacks the liver and can cause both acute and chronic disease. The virus is transmitted through contact with the blood or other body fluids of an infected person. An estimated 257 million people are living with hepatitis B virus In 2015, hepatitis B resulted in 887 000 deaths, mostly from

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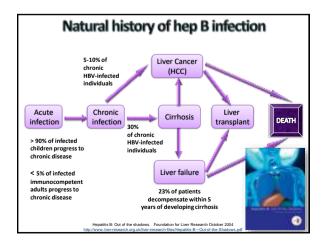
infection (defined as hepatitis B surface antigen positive).

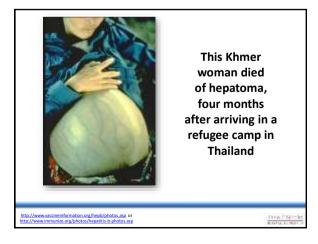
WHO Factsheet – Hepatitis B

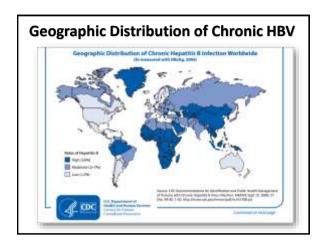
- complications (including cirrhosis and hepatocellular carcinoma).
- Hepatitis B is an important occupational hazard for health workers.
- However, it can be prevented by currently available safe and effective vaccine.

http://www.who.int/en/news-room/fact-sheets/detail/hepatitis-b

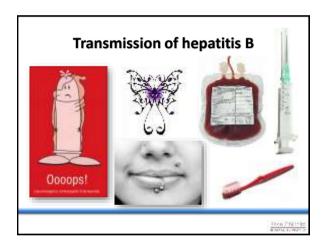






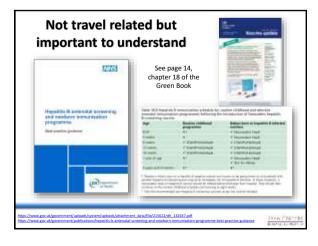












# Green Book recommendations for hepatitis B vaccine

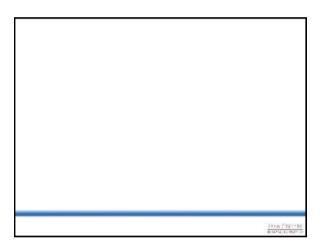
- Injecting drug users
- Individuals who change sexual partners frequently, particularly
   MSM and commercial sex workers
- Close family contacts of a case or carrier
- Families adopting children from countries with a high or intermediate prevalence of heoatitis B
- Foster carers

- Individuals receiving regular blood or blood products and their carers
- Patients with chronic renal failure
- Patients with chronic liver disease
- · Inmates of custodial institutions
- Individuals in residential accomodation for those with learning dificulties

ps://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/148308/Green-Book-Chapter-18.pdf

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# The Green Book information regarding traveling travellers \*\*\*Bushe travellers\*\* Therefore to one of high or intermediate previous who place themselves at risk when should could be of othered mentioned. The behaviour that place them at risk will middle sexual activity resisting thus use, undertaking relief act work another participating in center sports. Therefore, are also at risk of authority designating relief act work another participating in center sports. Therefore, are also at risk of reportable previous and contaminated out to contaminated out to contaminate out to contaminate and the reportable previous leg the every of contaminated resides and syringes without development is risk should for hepatitis B blance of al. 1999, Signatures and therefore he manufactured, including \* It have who plan to rement in oreon of high or intermediate previous for lengthy periods as this are also of the removal and the residence of the removal activity countries. \* people with charmonic medical conditions who may require hospitalisation while oversals is a disjoint of the product case. \*\*NB.\* The Green Book is nothing to do with whether the traveller should pay for vaccine or not

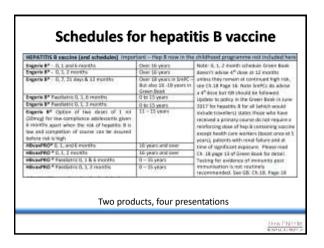




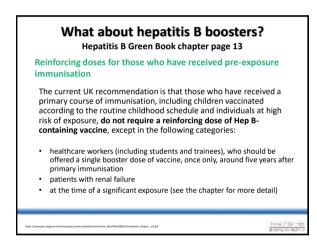


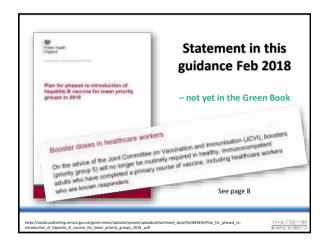
### **Directions on use from NaTHNaC**

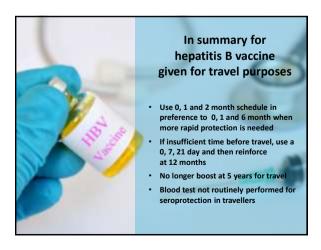
- Combined hepatitis A/B vaccine continues to be available and is the preferred first line choice for travellers.
- For those who have previously received hepatitis A vaccine, and require a primary course of hepatitis B for travel to countries where there is a NaTHNaC hepatitis B vaccine recommendation, single antigen hepatitis B vaccine, can be offered
- NaTHNaC vaccine recommendations have been made for countries where 2% or more of the population were known to be persistently infected with the hepatitis B virus (intermediate/high prevalence)

https://travelhealthpro.org.uk/news/333/plan-for-phased-re-introduction-of-hepatitis-b-vaccine-for-travell https://travelhealthpro.org.uk/lactsheet/11/country-specific-information-rationale 

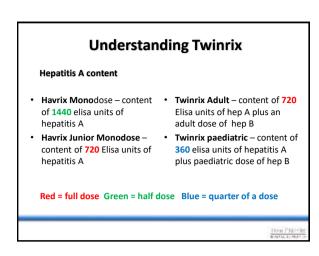
### Which schedule? Hepatitis B Green Book chapter page 12 Pre-exposure immunisation schedule for high risk individuals For pre-exposure prophylaxis in most adult and childhood risk groups, an accelerated schedule should be used, with vaccine given at zero, one and two months. Higher completion rates are achieved with the accelerated schedule (at zero. one and two months) in groups where compliance is difficult (e.g. in people who inject drugs [PWID] and genitourinary medicine clinic attenders) (Asboe et al., 1996). This improved compliance is likely to offset the slightly reduced immunogenicity when compared with the zero-, one- and six-month schedule, and similar response rates can be achieved by the opportunistic use of a fourth dose after 12 months. An alternative schedule at zero, one and six months should only be used where rapid protection is not required and there is a high likelihood of compliance If the primary course is interrupted it should be resumed but not repeated.)

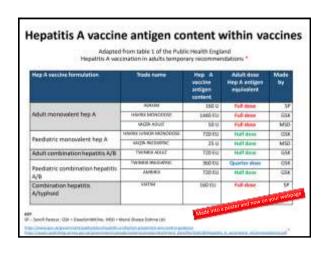


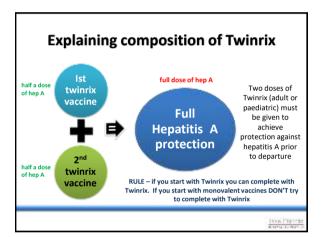


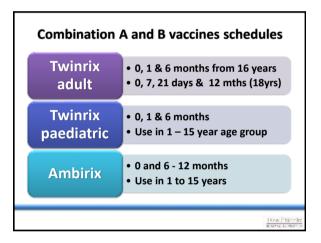


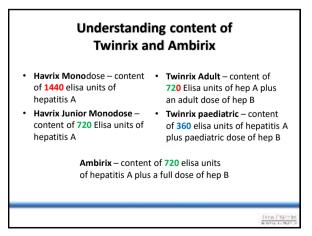


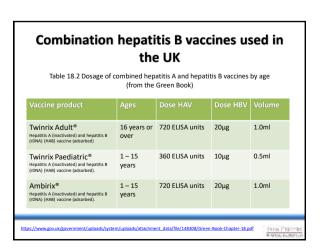




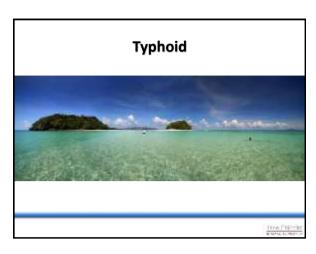


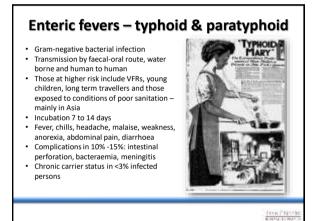


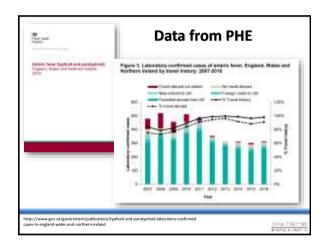


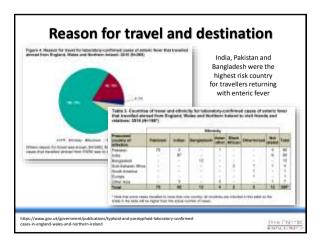


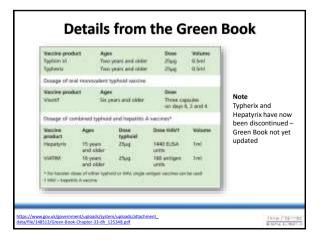


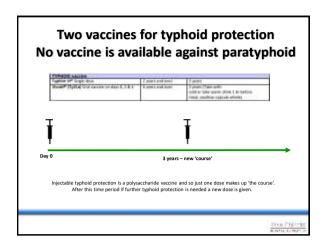


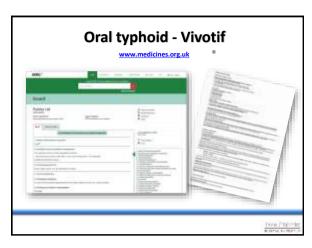


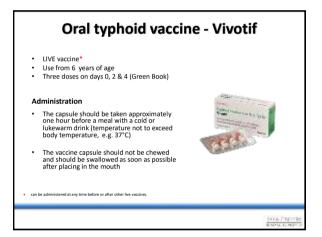


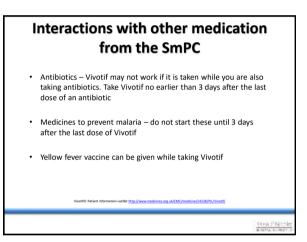












# **Charging and administration**

Oral typhoid vaccine is an NHS provision in an NHS setting

- 1. You could buy this vaccine in and bring the patient in for all three doses
- You could administer the vaccine to the patient for the first dose and given them the other two doses to take home to self administer but the vaccine must be stored at 2 – 8°C
- 3. You could supply the vaccine on an FP10 and allow the patient to self administer

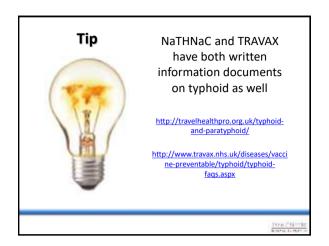
You need to ensure that your traveller understands the importance of, and can assure the cold chain in points 2 and 3 above.

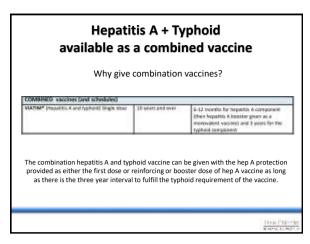
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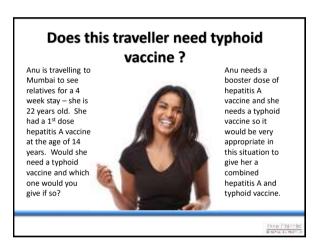
# Who would need typhoid vaccine if there is a shortage?

- Family of four going to an all inclusive break for a 10 days Cancun
- 40 year old couple travelling to stay in 4 star hotel in Bangkok for two weeks
- 26 year old man going to stay in Bangkok in a guest house/hostel type accommodation and he has type 1 diabetes
- Parents and their children of 7, 5 and 2 years travelling to Pakistan for 3 weeks to see family

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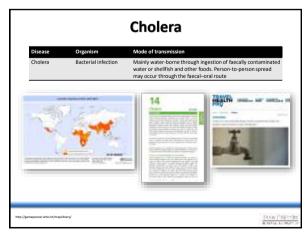


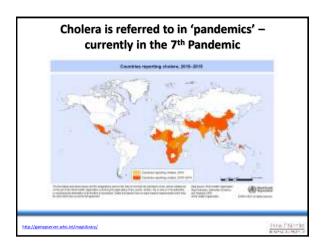






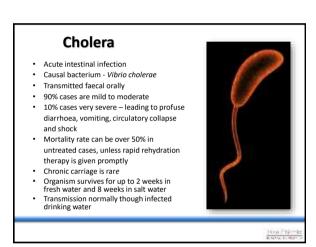












# Management of cholera

- · Fluid replacement
- Prompt action improves outcome
- IV fluids in severe cases or when vomiting
- Rapid rehydration until signs improve
- NG tube used if IV not possible
- Antibiotic therapy in severe cases



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# Cholera recommendations for administration

## Advice from the Green Book

- Immunisation against cholera can be considered, following a full risk assessment, for the following categories of traveller:
  - relief or disaster aid workers
  - persons with remote itineraries in areas where cholera epidemics are occurring and there is limited access to medical care
  - travellers to potential cholera risk areas, for whom vaccination is considered potentially beneficial.

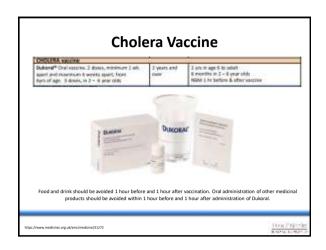
https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/263838/Green-Book-Chapter-14v2\_0.

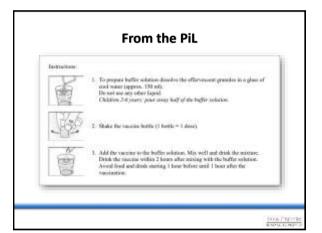
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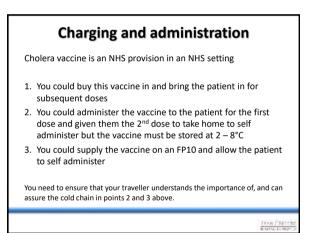
## **Cholera vaccine fact finding**

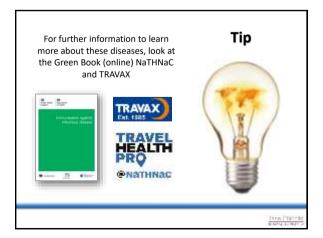
- What is the youngest age at which give cholera vaccine can be prescribed?
- How many doses would you give a child?
- How many doses would you give an adult?
- What is the minimum and maximum time interval between doses?
- How long does cholera vaccine last?









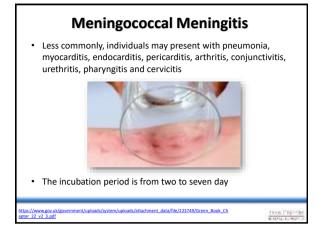




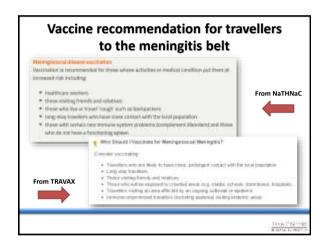


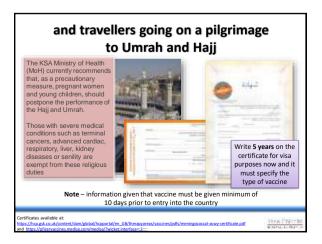
- Meningococcal disease is a rare, but potentially devastating infection
- Caused by the bacteria *Neisseria meningitidis* of which there are 6 disease-causing strains called serogroups (A, B, C, W, Y and X)
- Approximately 10 percent of the general population of the UK are thought to carry N. meningitidis in the lining of the nose and throat
- Spread between individuals occurs through coughing, sneezing, kissing or during close contact with a carrier
- Carriers do not have symptoms, but can develop disease when bacteria invade the bloodstream from the nasopharynx
- Invasive disease is a rare but serious outcome usually presenting as septicaemia or meningitis

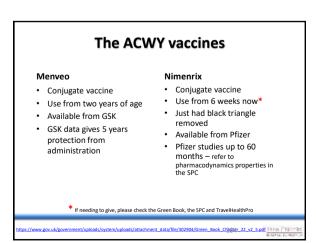
://travelhealthpro.org.uk/diseases/meningococcalmeningitis/

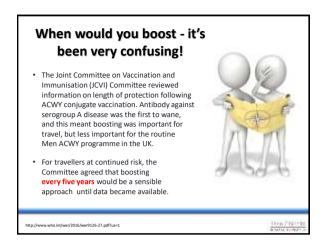


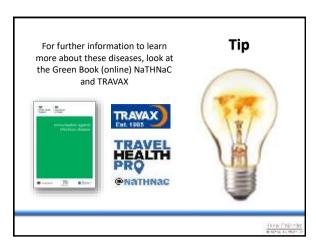


















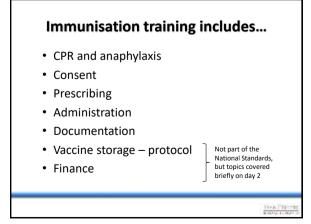


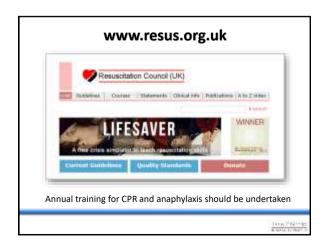




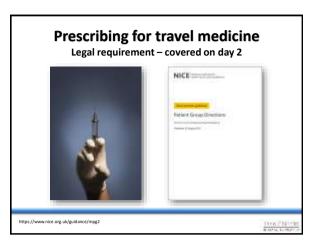




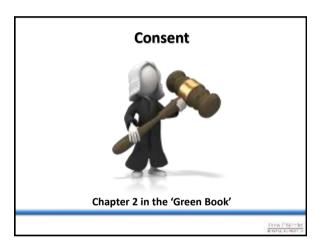


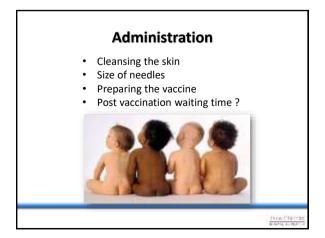


























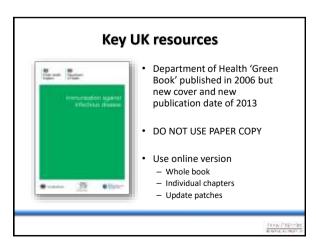


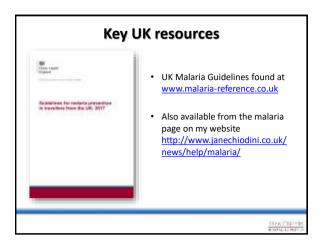




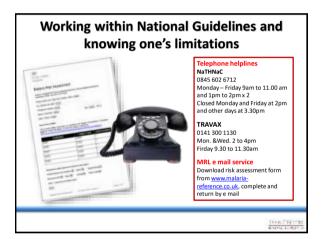


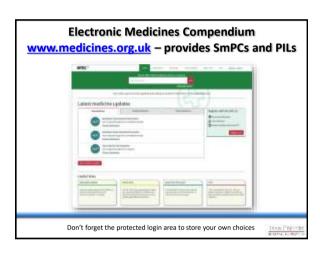


























# Interim work between the two study days listed on your webpage

- Do the module on dose sparing guidance for hepatitis A vaccine
- Look around my website
- · Find out what travel PGDs you have at work
- See if you have a vaccine storage protocol at work
- Do the practice case study e learning on your page if you have time left

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