

Core competence for the Competent Nurse (or practitioner) in a travel health consultation (pages 21/23)

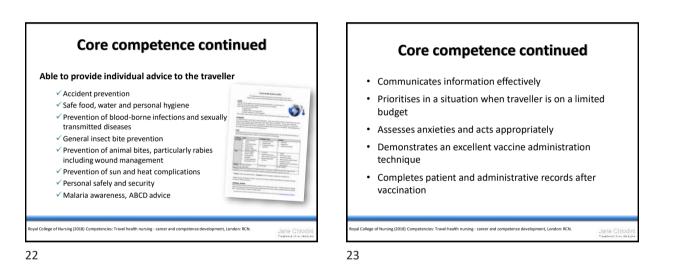
- Demonstrates good geographical knowledge
- Able to perform risk assessment effectively and understands how to interpret potential risk within a trip
- Knows where to 'go' for recommendations for travel advice, immunisations, malaria chemoprophylaxis
- Recognises limit of knowledge and knows when to refer appropriately
- Has good knowledge of common travel related illnesses e.g. TD, hepatitis, typhoid, malaria

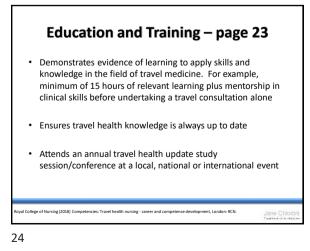
ral College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RCN.

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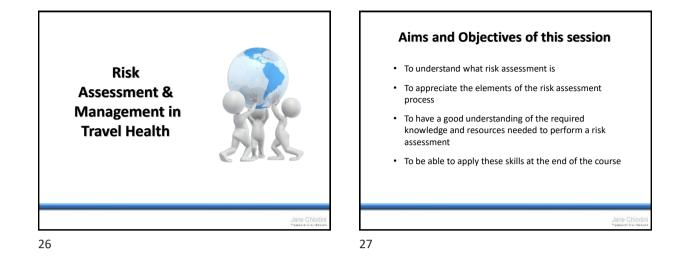
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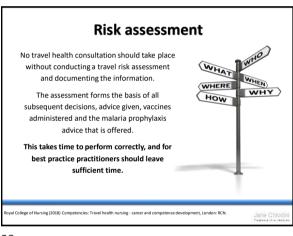


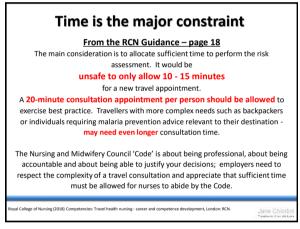






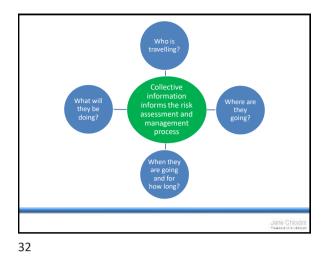




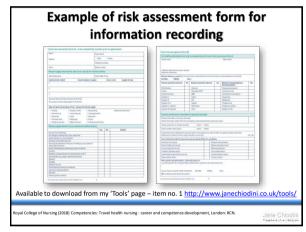


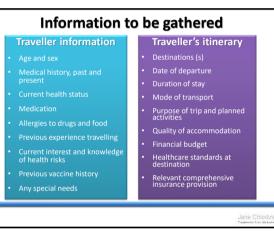


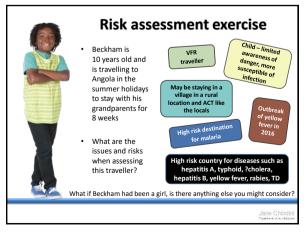






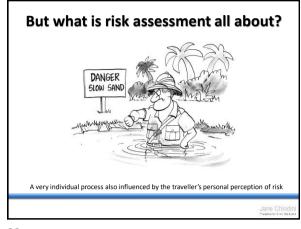










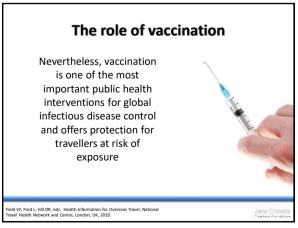




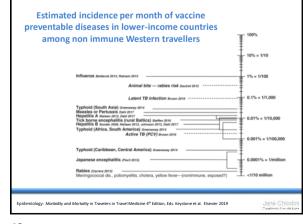


Vaccine preventable health risks to

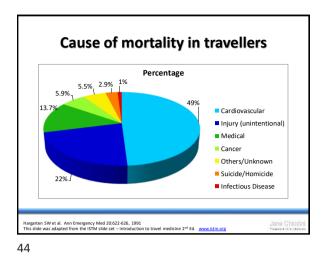




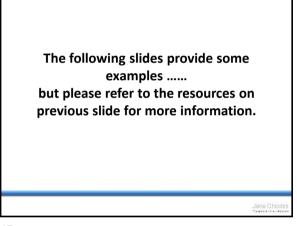
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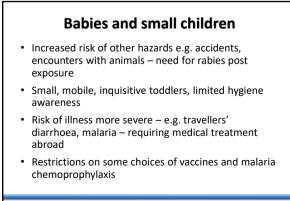




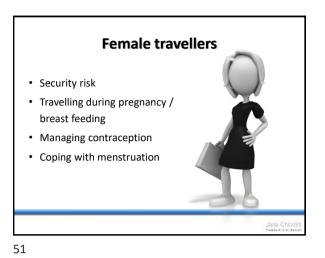










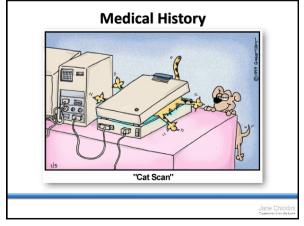




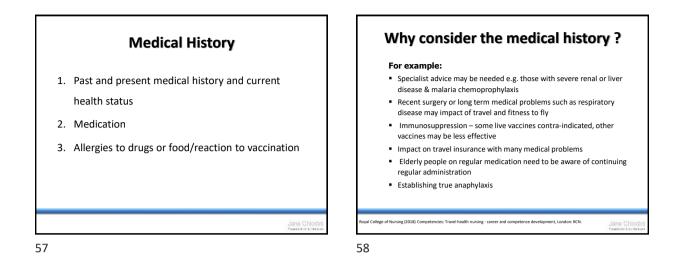




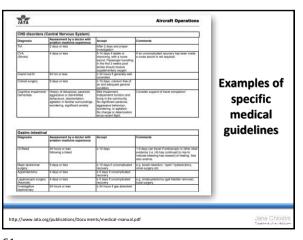




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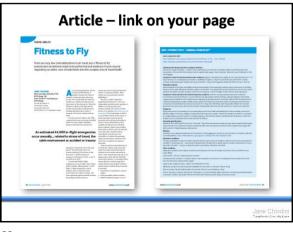


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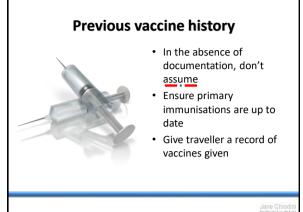


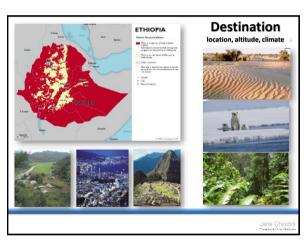
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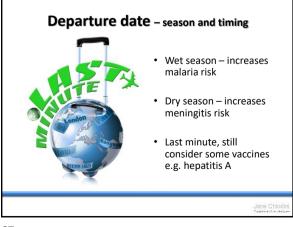




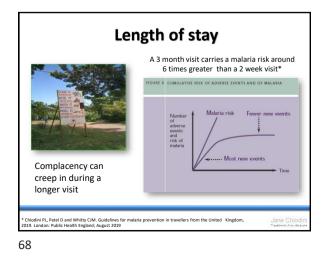
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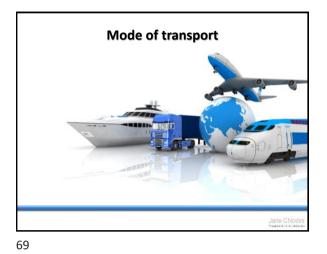






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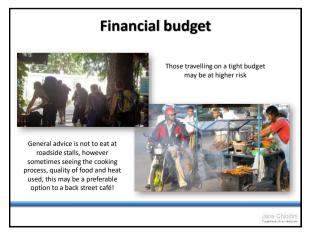


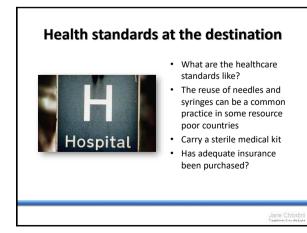


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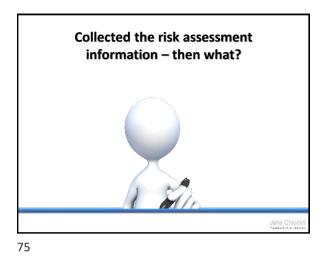


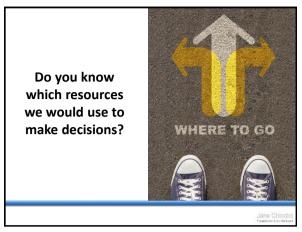














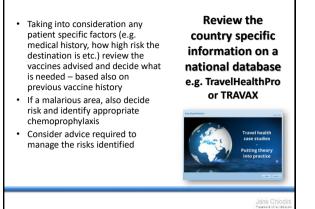


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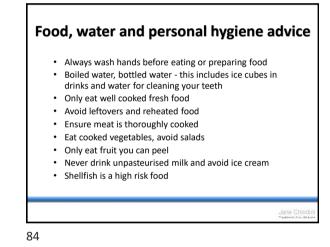


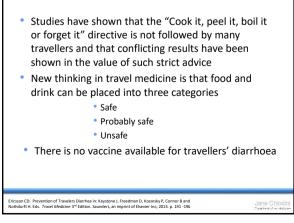




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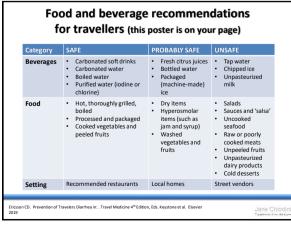
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Communicating the risk and providing advice

- 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

Jane Chiodin

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Management High risk areas include North Africa, sub-Saharan Africa, the Indian Subcontinent, S.E. Asia, Rehydration Anti diarrhoeal tablets South America, Mexico and the Middle East . Standby emergency treatment Contact medical help if the Medium risk areas include the northern Mediterranean, Canary Islands and the

- Caribbean Islands
- Low risk areas include North America, Western Europe and Australia

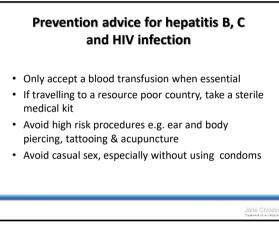
Travellers' diarrhoea advice

- could be an option for some

affected person has:-

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

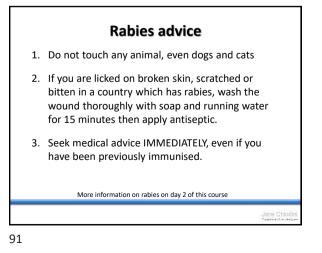
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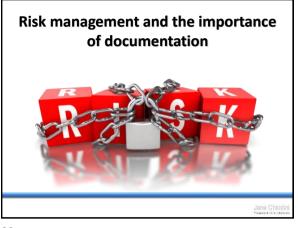
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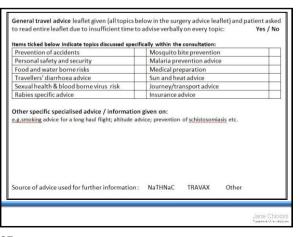
Prevention of accidents advice Avoid alcohol and food before swimming Never dive into water where the depth is uncertain Only swim in safe water, check currents, sharks, jellyfish etc.

- 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

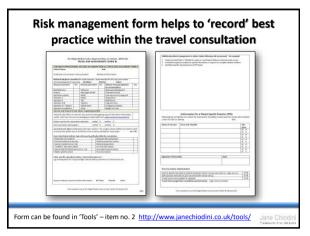
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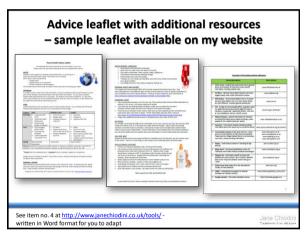


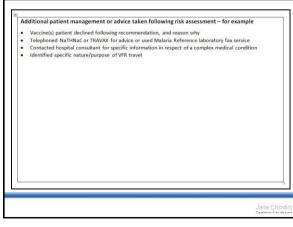
Childhood immunisation history checked: Additional information: National database consulted for travel vaccines recommended for this trip and malaria chemoprophylaxis (ifrequired): NaTIMAC: TRAVAX: Other: Disease protection Yes Disease protection Yes Malaria Chemoprophylaxis RCG/Mantoux Influenza Atoraucone/programing Atoraucone/programing	
chemoprophylaxis (if required): NaTHNAC: TRAVAX: Other: Disease protection Yes Disease protection Yes Recommendation	0
Recommendation	
BCG/Mantoux Influenza Atovaguone/proguanil	s Yes
Cholera Meningitis ACWY Chloroquine only	
Dip/tetanus/polio MMR Chloroquine and proguani	l l
Hepatitis A Rabies Doxycycline	
Hepatitis B TBE Mefloquine	
Hepatitis A+B Typhoid Proguanil only	
Hepatitis A + Typhoid Yellow fever Emergency standby	
Japanese Encephalitis Other Weight of child:	
Vaccine and General Travel Advice required/provided	
Potential side effects of vaccines discussed (including giving copy of the Patient Informa Leaflet (PIL) from the vaccine packaging or obtainable from <u>www.medicines.org.uk/em</u>	
Patient consent for vaccination obtained: verbal 🗆 written 🗆	
Post vaccination advice given: verbal 🗆 written 🗆	



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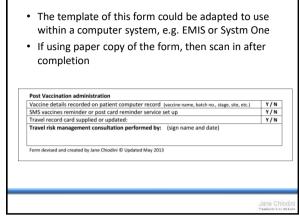


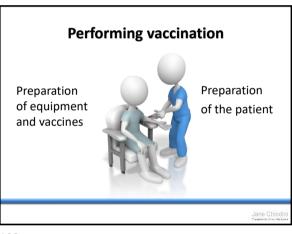


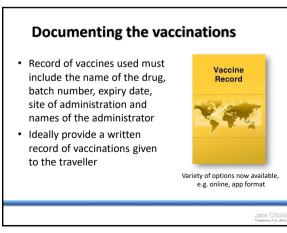


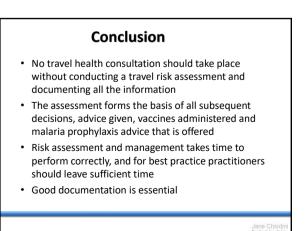
under this PSD to: Name:	dob:	
Name, form & strength of medicine (generic/brand name as appropriate)	Dose, schedule and route of administration	Start and finish dates
Signature of Prescriber		Date





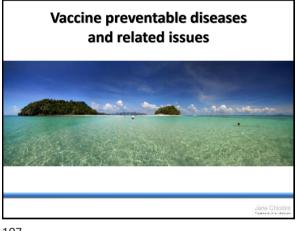


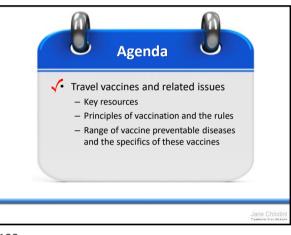












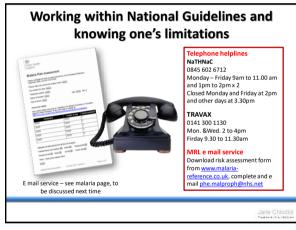


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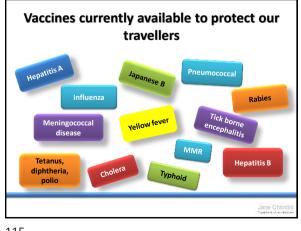




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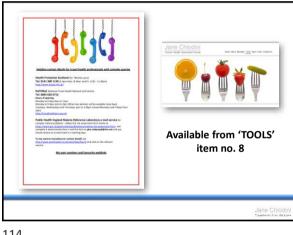


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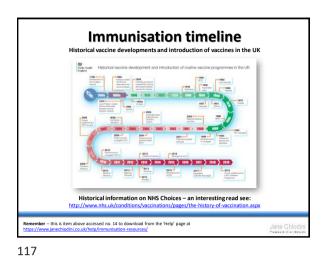
Diseases for consideration in this section? Tetanus, diphtheria and polio PART 1 NHS vaccines (mostly) and • Hepatitis A • Typhoid provided in an NHS setting • Cholera (hepatitis B • Hepatitis B and meningitis can be private) Meningitis PART 2 Covered on day 2 Always private, more specialist Just touching on Yellow fever but separate vaccines given by those more training is required by NaTHNaC Rabies, Japanese B, tick-borne encephalitis experienced For more details regarding the charging of vaccines see FAQ no. 2 on my website http://www.janechiodini.co.uk/news/faqs/faq-no-2/ Jane Chi

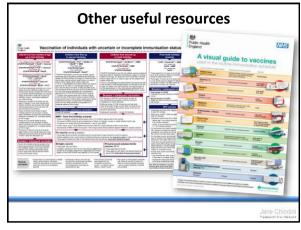
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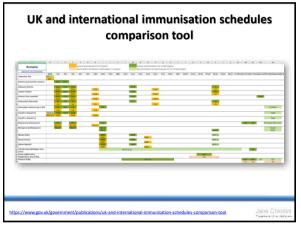




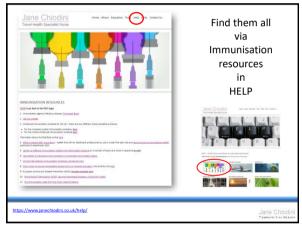




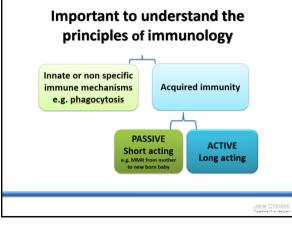




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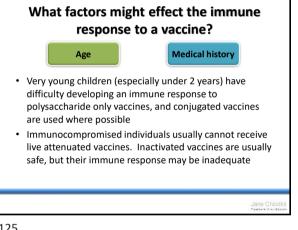
Active Immunity ACTIVE IMMUNITY Naturally acquired By immunisation LIVE INACTIVATED Viral Inactivated Immunogenic Inactivated Bacterial e.g. Varicella organisms components of toxins e.g. BCG MMR e.g. Hep A, organisms e.g. tetanus Yellow fev rabi .g. Hib, Hep B Jane Chi

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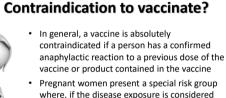




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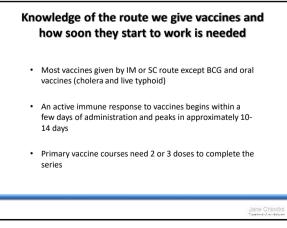


where, if the disease exposure is considered high during travel, most vaccine can be offered, although caution should be used with live vaccines

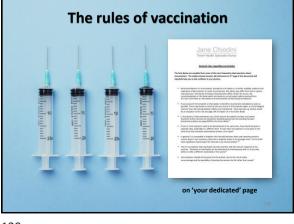
All centres administering vaccines must be adequately prepared to deal with anaphylaxis

Jane Chio

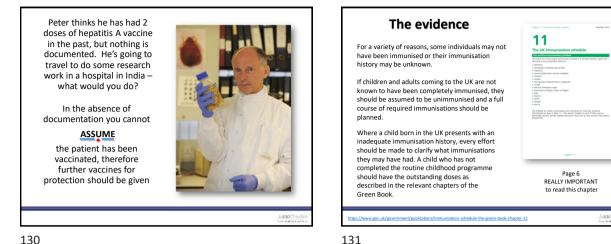
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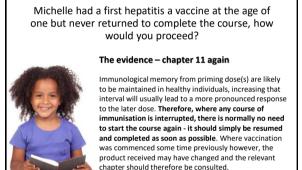


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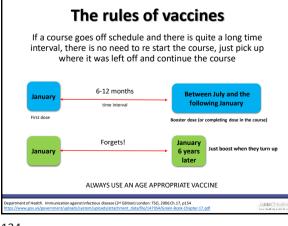


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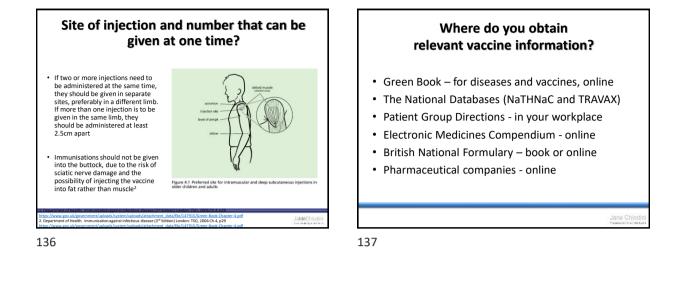
Jon is backpacking around SE Asia for 6 months and is having a course of hepatitis B vaccine on a 0, 7 and 21 day schedule before he leaves. He had his day 0 dose today but won't be around for the day 7 dose and asks if he can attend in 5 days instead for his second dose. What would you advise ?

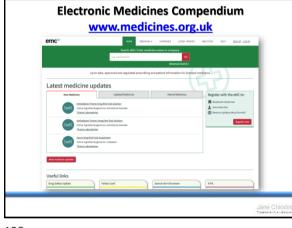
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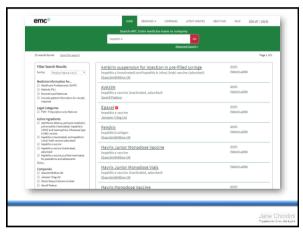
The evidence

In general, it is acceptable to lengthen the intervals between doses and repeating previous vaccine doses is not necessary , unless this is explicitly stated in the package insert. On the other hand, significant shortening of the intervals is not recommended

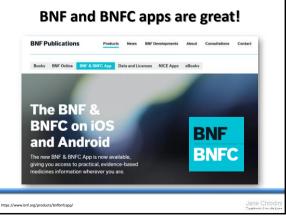
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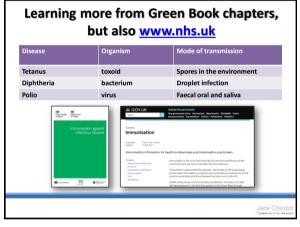
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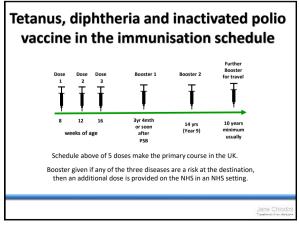
Tetanus, polio and diphtheria



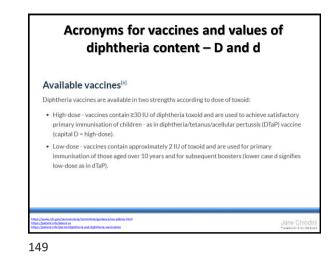


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Age due	Diseases protected against	Vaccine given a	and trade name	Usual site		
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		labors and adults		INHS		



Would this traveller need Td/IPV?

- 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

Would this traveller need Td/IPV?

· James is 26 years old

at the age of 16

world

• he's taking a one year career

break back packing around the

• He last had a tetanus vaccine as

a school booster 91/2 years ago

She hasn't travelled abroad beforeNo PMH, she is on the OCP only

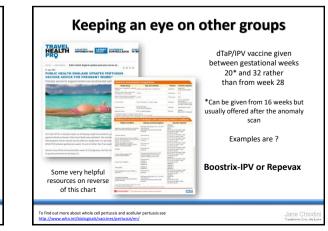


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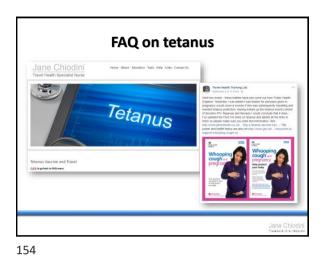


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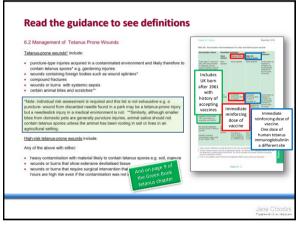


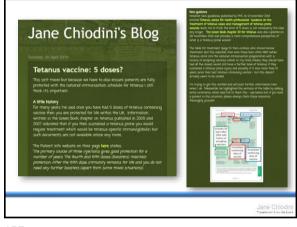




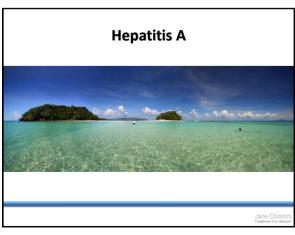


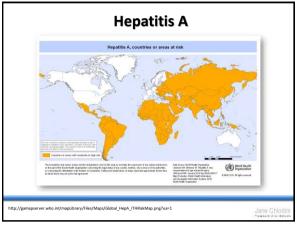


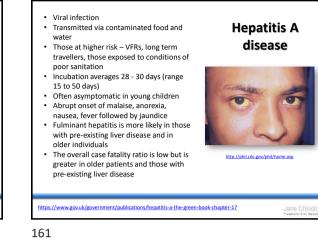


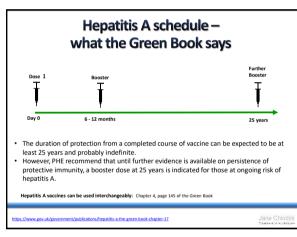


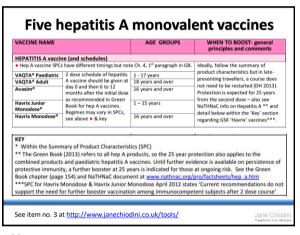




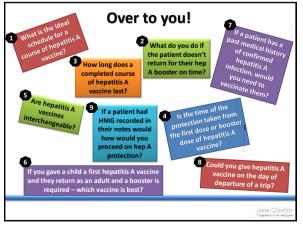


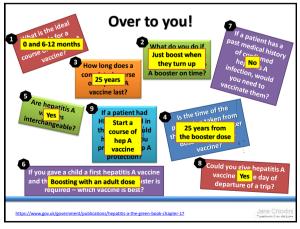




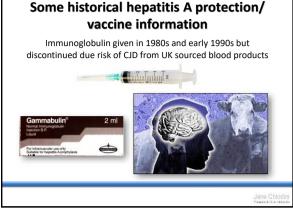












Some historical hepatitis A protection and vaccine information Immunoglobulin given in 1980s and early 1990s but discontinued due risk of CJD from UK sourced blood products Hepatitis A vaccine introduced in 1992 – Havrix – had to give two doses prior to travel as it had 720 ELISA units of hepatitis A (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 167

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?

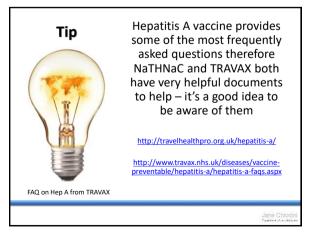


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- · James is 26 years old
- he's taking a one year career break back packing around the world
- He last had a tetanus vaccine as a school booster 9½ years ago at the age of 16
- He tells you he had one dose of hep A vaccine when he was 12 years old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

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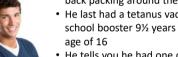


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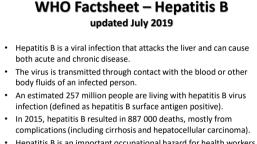


How would you proceed?



Hepatitis B

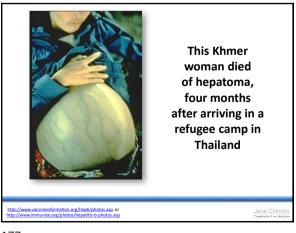
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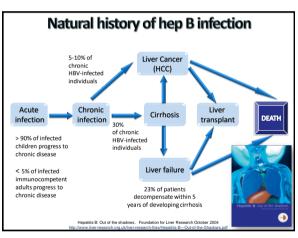
Hepatitis B is an important occupational hazard for health workers.
However, it can be prevented by currently available safe and effective vaccine.

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

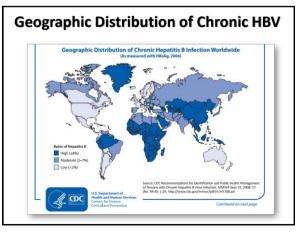
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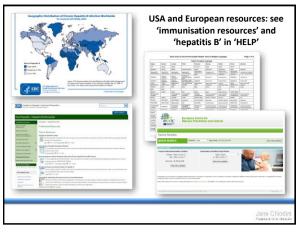


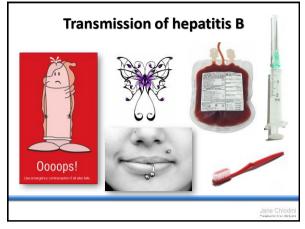








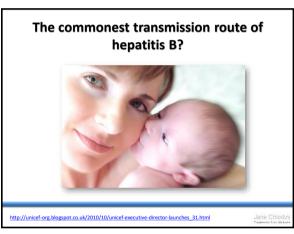




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Green Book recommendations for hepatitis B vaccine

. .gov.uk/government/uploads/system/uploads/attachment_data/file/148308/Green-Book-Chapter-18.pdf

- 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 hepatitis 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

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The Green Book information regarding travellers g to reside in areas of high or int Travelers to area of high or intermediate prevalence who place themselves at risk when abroad should be offered immunisation. The behaviours that place them at risk will include sexual activity, injecting drug use, undertaking relief aid work and/or participating in contact sports. Travellers are also at risk of acquiring infection as a result of medical or dental procedures carried out in countries where unsafe therapeutic injections (e.g. the re-use of contaminated needles and syringes without sterilisation) are a risk factor for hepatitis B (Kane et al., 1999; Simonsen et al. 1999). Individuals at high risk of requiring medical or dental procedures in such countries should therefore be immunised, including: . those who plan to remain in areas of high or intermediate prevalence for lengthy periods children and others who may require medical care while travelling to visit families or relatives in high or moderate-endemicity countries people with chronic medical conditions who may require hospitalisation while overseas e.g. dialysis · those travelling for medical care NB. The Green Book is nothing to do with whether the traveller should pay for vaccine or not

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Which schedule?

Hepatitis B Green Book chapter page 12

For pre-exposure prophylaxis in most adult and childhood risk groups, an

This improved compliance is likely to offset the slightly reduced

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months.

al., 1996).

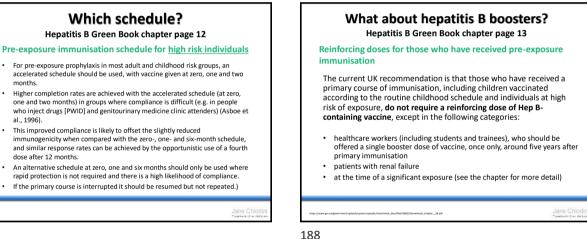
dose after 12 months.

Schedules for hepatitis B vaccine

HEPATITIS B vaccine (and schedules) Impor	tant – Hep B now in the	childhood programme not included here
Engerix B* - 0, 1 and 6 months	Over 16 years	Note: 0, 1, 2 month schedule Green Book
Engerix B [®] - 0, 1, 2 months	Over 16 years	doesn't advise 4th dose at 12 months
Engerix B* - 0, 7, 21 days & 12 months	Over 18 years in SmPC – But also 16 -18 years in Green Book	unless they remain at continued high risk, see Ch.18 Page 16. Note SmPCs do advise a 4 th dose but GB should be followed.
Engerix B* Paediatric 0, 1, 6 months	0 to 15 years	Update to policy in the Green Book in June
Engerix B* Paediatric 0, 1, 2 months	0 to 15 years	2017 for hepatitis B for all (which would
Engerix B* Option of two doses of 1 ml (20mcg) for low-compliance adolescents given 6 months apart when the risk of hepatitis B is low and completion of course can be assured before risk is high	11 – 15 years	include travellers) states those who have received a primary course do not require a reinforcing dose of hep B containing vaccim except health care workers (boost once at 5 years), patients with renal failure and at
HBvaxPRO [®] 0, 1, and 6 months	16 years and over	time of significant exposure. Please read
HBvaxPRO * 0, 1, 2 months	16 years and over	Ch. 18 page 13 of Green Book for detail.
HBvaxPRO * Paediatric 0, 1 & 6 months	0 – 15 years	Testing for evidence of immunity post
HBvaxPRO * Paediatric 0, 1, 2 months	0 – 15 years	immunisation is not routinely recommended. See GB. Ch.18. Page 18

Two products, four presentations

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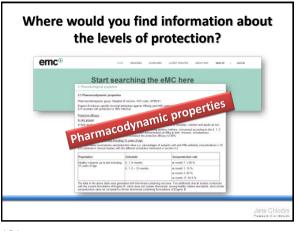


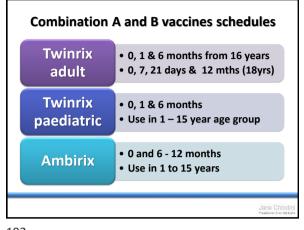
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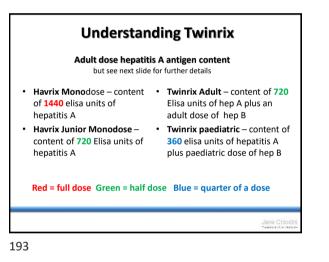
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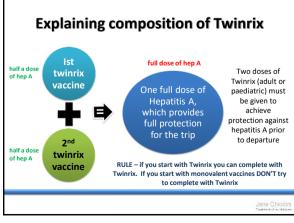
In summary for hepatitis B vaccine given for travel purposes Use 0.1 and 2 month schedule in preference to 0, 1 and 6 month when more rapid protection is needed If insufficient time before travel, use a 0, 7, 21 day and then reinforce at 12 months No longer boost at 5 years for travel Blood test not routinely performed for seroprotection in travellers

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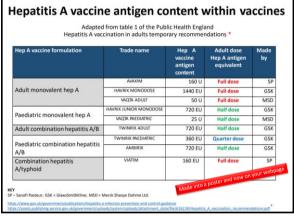








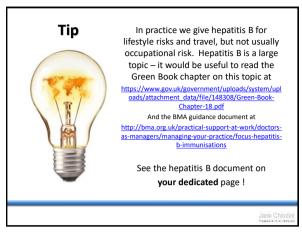
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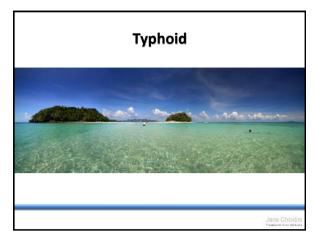


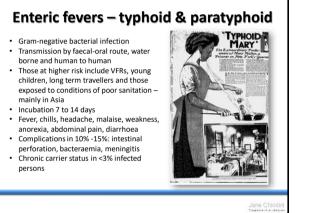
/accine product	Ages	Dose HAV	Dose HBV	Volume
Fwinrix Adult® lepatitis A (inactivated) and hepatitis B IDNA) (HAB) vaccine (adsorbed)	16 years or over	720 ELISA units	20µg	1.0ml
Fwinrix Paediatric [®] lepatitis A (inactivated) and hepatitis B DNA) (HAB) vaccine (adsorbed).	1 – 15 years	360 ELISA units	10µg	0.5ml
Ambirix® lepatitis A (inactivated) and hepatitis B DNA) (HAB) vaccine (adsorbed).	1 – 15 years	720 ELISA units	20µg	1.0ml

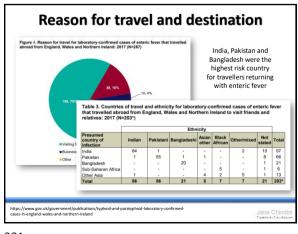




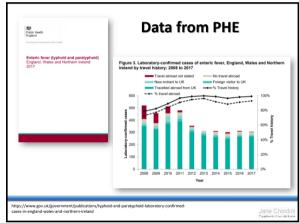


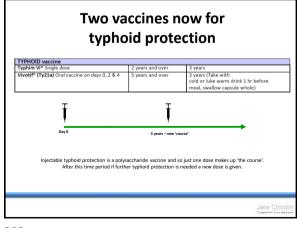


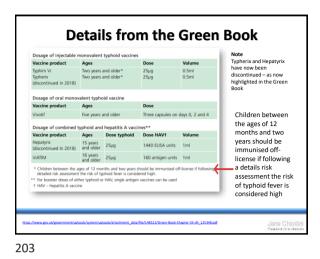


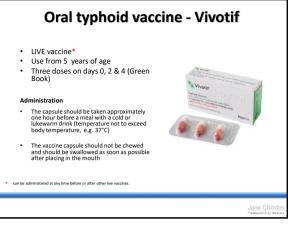


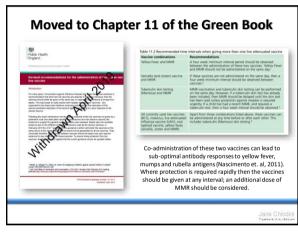
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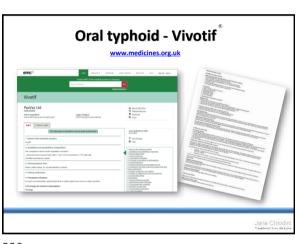


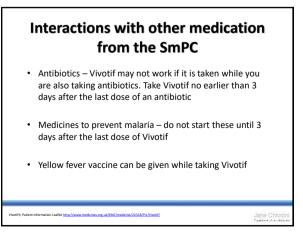


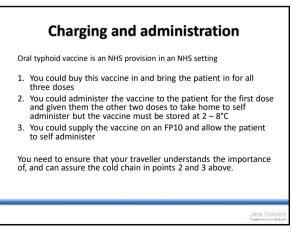








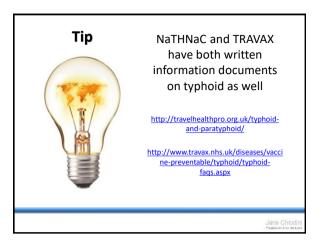




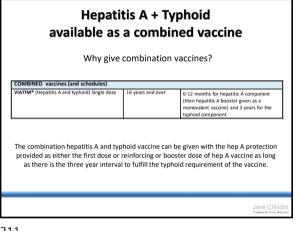
Prioritising typhoid vaccine if there is a shortage - who would you give it to?

- Family of four going to an all inclusive break for a 10 days Cancún
- 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

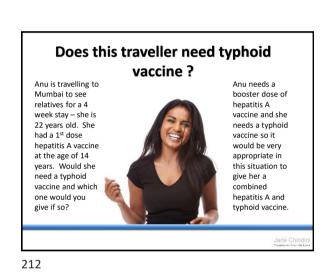
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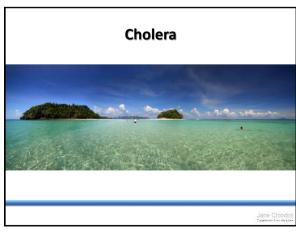


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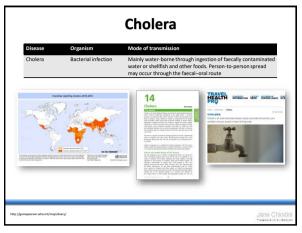


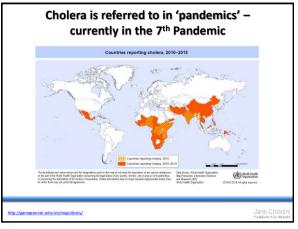
Food and water HEALTH hygiene advice remain paramount HEALTH althpro.org.uk/news/349/extensively-drug-resistant-typhoid-fever-in-pakistar

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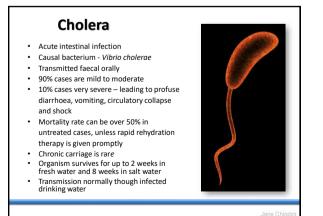


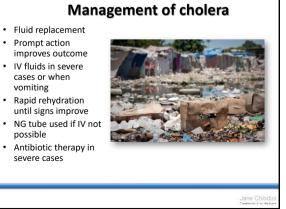


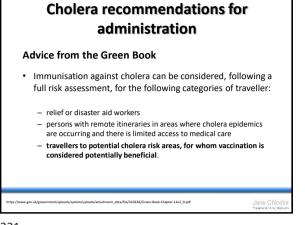


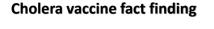






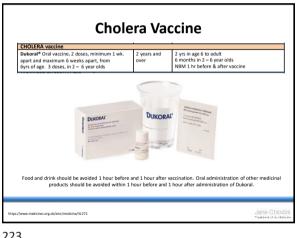




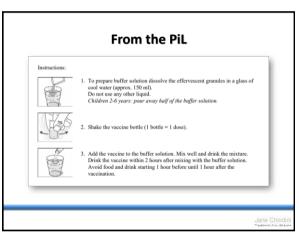


- What is the youngest age at which give cholera vaccine can be prescribed?
- How many doses would you give a child?
- How many doses would you give an adult?
- What is the minimum and maximum time interval between doses?
- How long does cholera vaccine last?

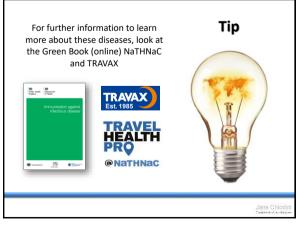
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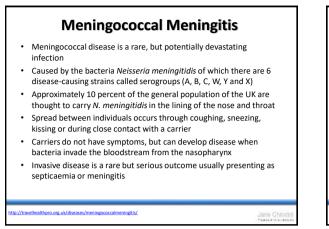


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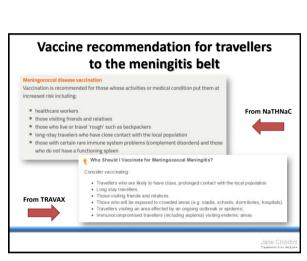


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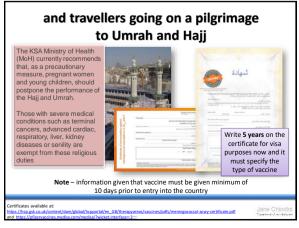




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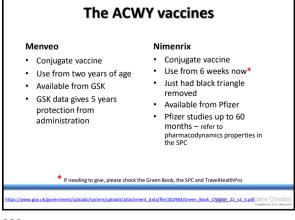


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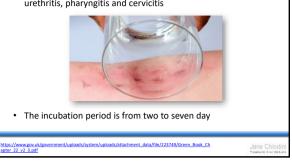
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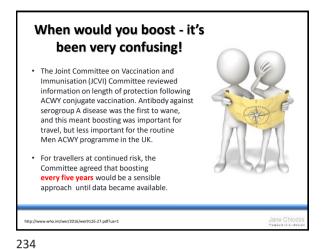


Meningococcal Meningitis

Less commonly, individuals may present with pneumonia, myocarditis, endocarditis, pericarditis, arthritis, conjunctivitis, urethritis, pharyngitis and cervicitis



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Agenda
Agenda
Introduction to travel medicine
Travel risk assessment
Travel vaccines and related issues
Travel medicine operational issues
Recap on resources

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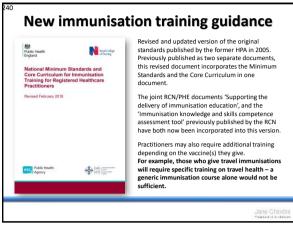
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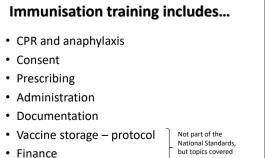
At the current time, Nursing Associates and Physician's Associates can only work under a PSD (the legislation does not allow them to work under a PGD). There is no mention in the document in Royal College at Narsing relation to travel vaccines but there is The Role of Nursing Associates in Vaccination and Immunisation reference to National Minimum Standards N B Patk ds and hisation Practitioners may also require additional training depending on the vaccine(s) they give. For example, those who give travel immunisations will require specific training on travel health – a generic immunisation course alone would not be sufficient.

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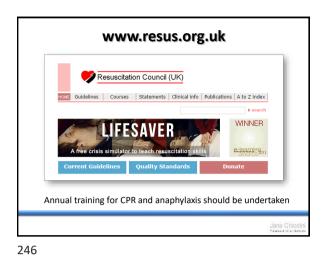
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briefly on day 2

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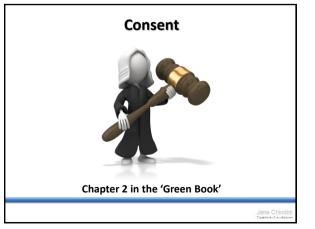




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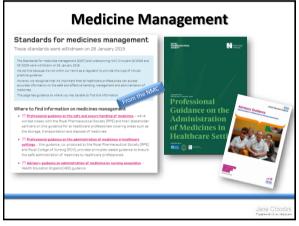
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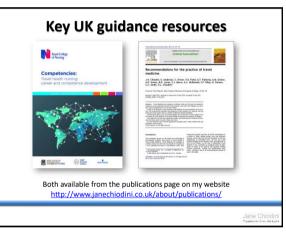








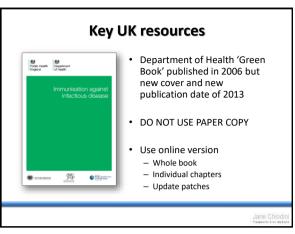


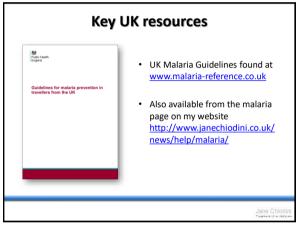






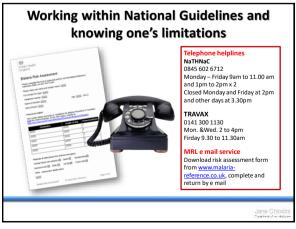


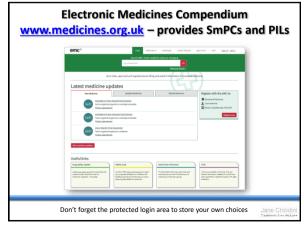








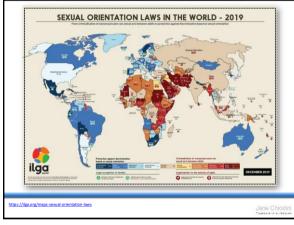




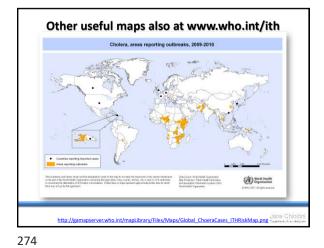


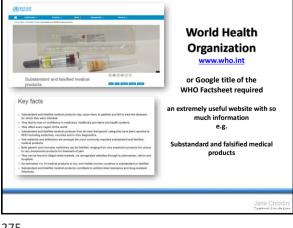


















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Interim work between the two study days listed on your webpage

- Play the vaccine videos to recap on this aspect
- 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
- Remember you can go into the e learning to reflect on today's presentation if you wish – but only available for a limited time.

Jane Chiodini ToolFeel: Societation

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