

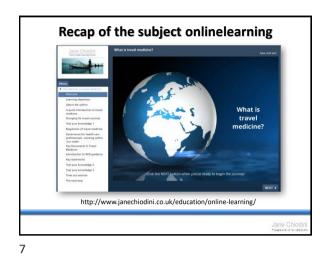


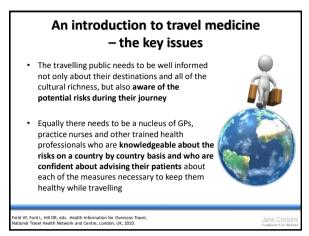
What do you hope to achieve from this course? Write two goals down on the form provided

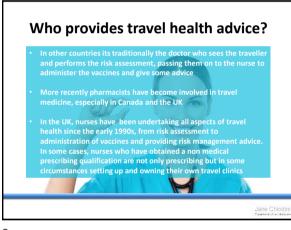






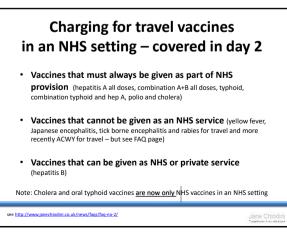












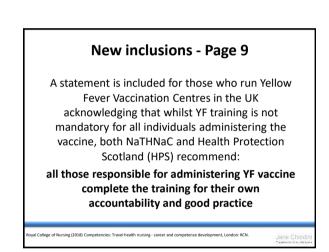


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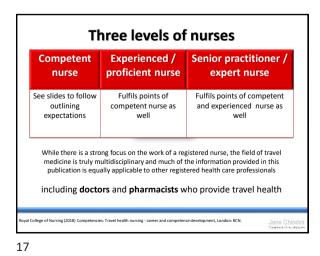
14

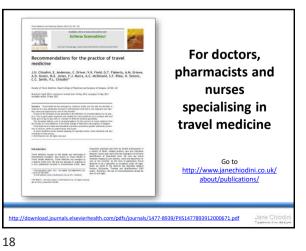


15



16





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

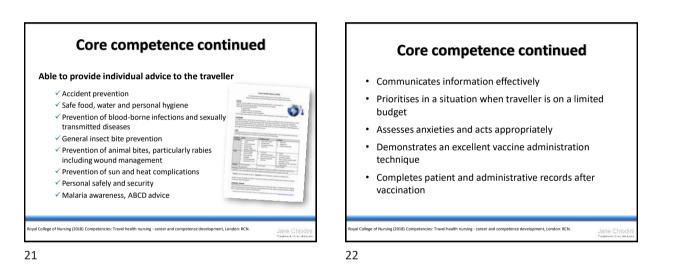
- Demonstrates good geographical knowledge
- Able to perform risk assessment effectively and understands how to interpret potential risk within a trip
- Knows where to 'go' for recommendations for travel advice, immunisations, malaria chemoprophylaxis
- Recognises limit of knowledge and knows when to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

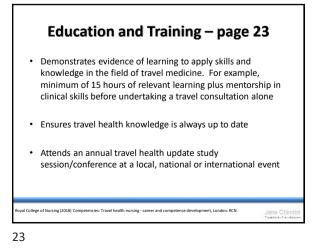
ral College of Nursing (2018) Competencies: Travel health nursing - career and competence development, London: RCN.

19



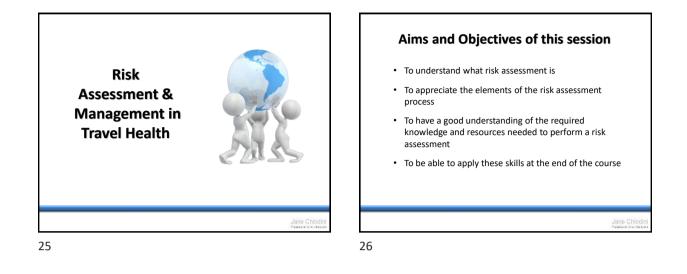
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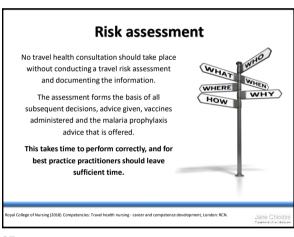


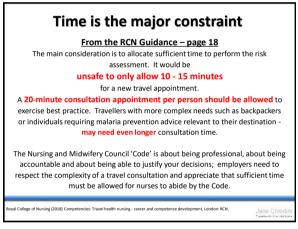








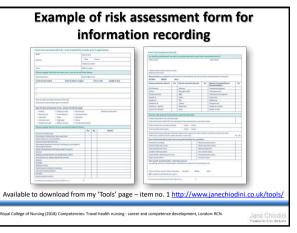


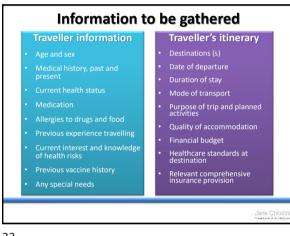








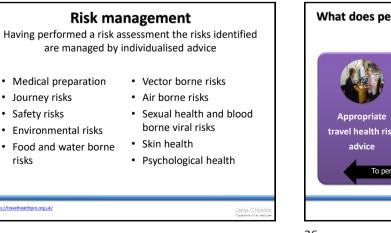




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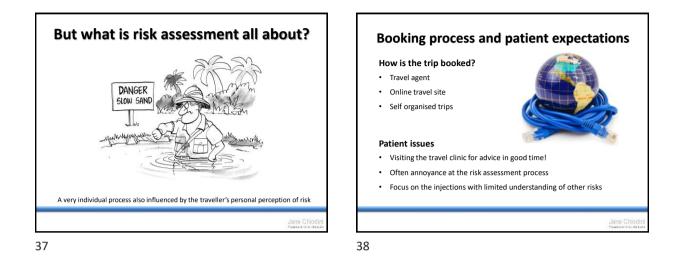


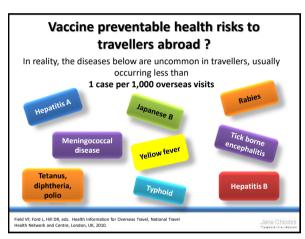


risks

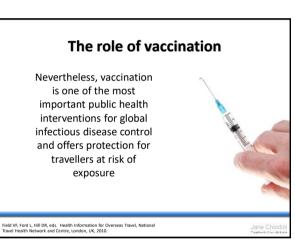
https://travelhealthpro.org.uk/







41



40

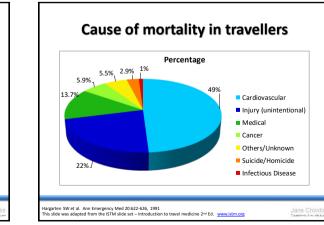
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1% = 1/100

0.1% = 1/1.000

0.001% = 1/100.000

0 00011% - 1/4





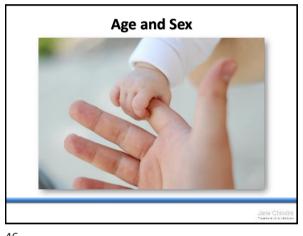
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logy: Morbidity and Mortality in Travelers in Travel Medicine 4th Edition, Eds. Keystone et al. Elsevier 2019

Estimated incidence per month of vaccine

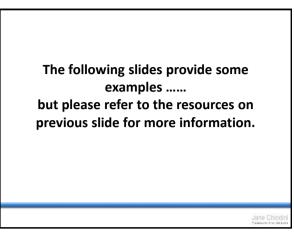
preventable diseases in lower-income countries among non immune Western travellers



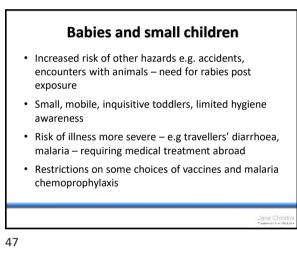


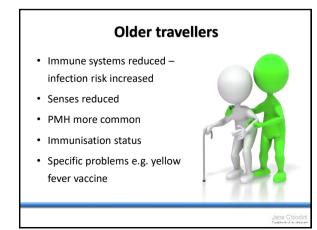
46

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45





Fermale travellers
Security risk
Travelling during pregnancy / breast feeding
Managing contraception
Coping with menstruation



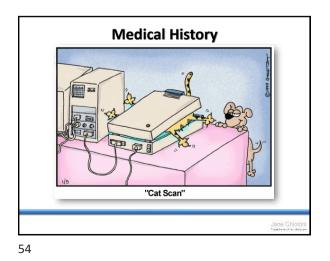


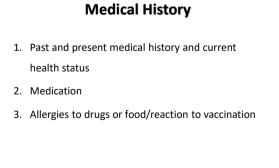
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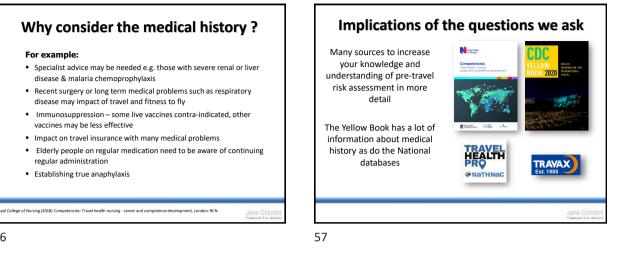




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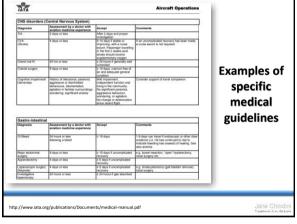
Jane Chio



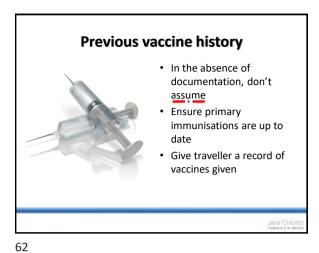
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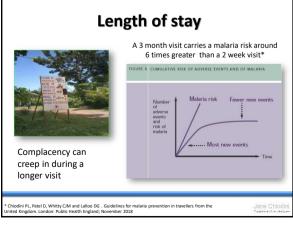






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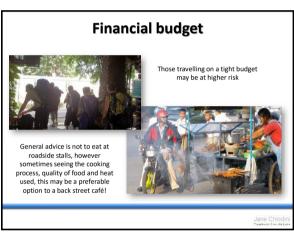


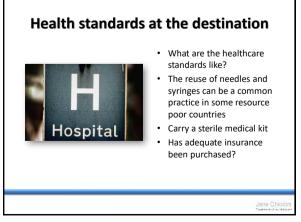
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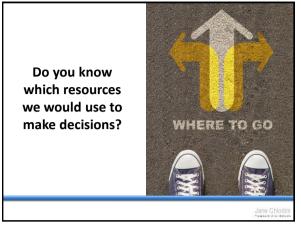














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Review the Taking into consideration any patient specific factors (e.g. country specific medical history, how high risk the information on a destination is etc.) review the national database vaccines advised and decide what is needed - based also on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

79

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

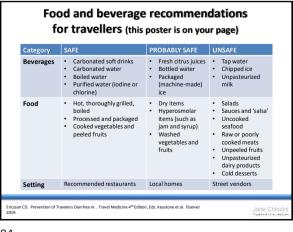
80



Advice leaflet that can be adapted for your use -

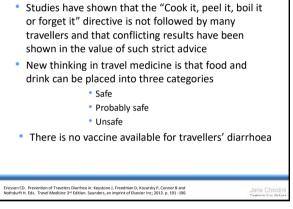
Food, water and personal hygiene advice
Always wash hands before eating or preparing food
Boiled water, bottled water - this includes ice cubes in drinks and water for cleaning your teeth
Only eat well cooked fresh food
Avoid leftovers and reheated food
Bosure meat is thoroughly cooked
Eat cooked vegetables,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

82



84

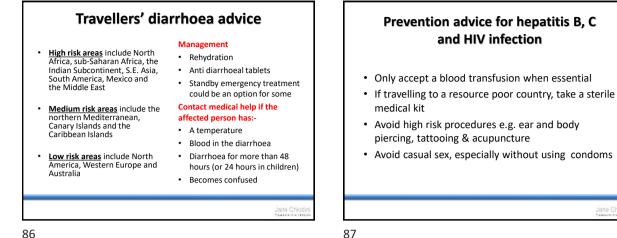
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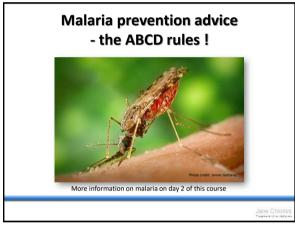






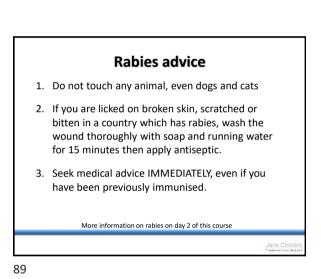
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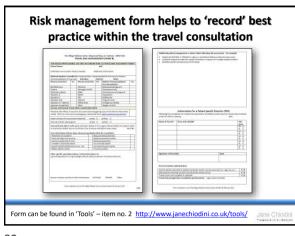


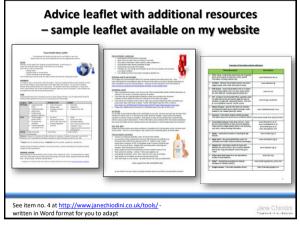
Prevention of accidents advice · Avoid alcohol and food before swimming · Never dive into water where the depth is uncertain Only swim in safe water, check currents, sharks, jellyfish etc. · Avoid alcohol when driving, especially at night Avoid hiring motorcycles and mopeds If hiring a car, rent a large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

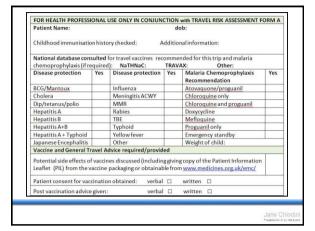
Risk management and the importance of documentation

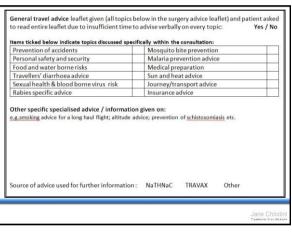
91

Jane Chio

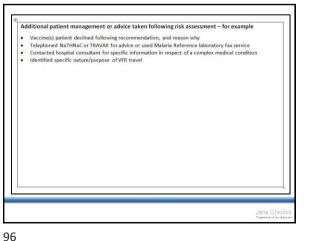


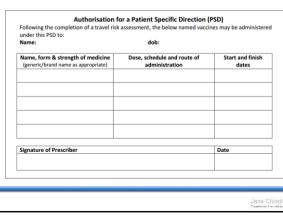




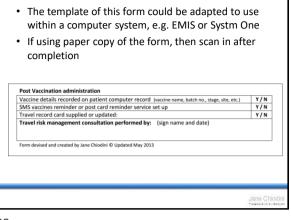






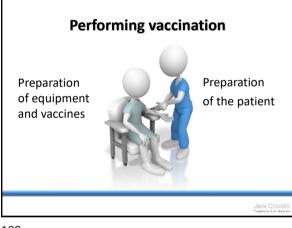




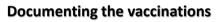




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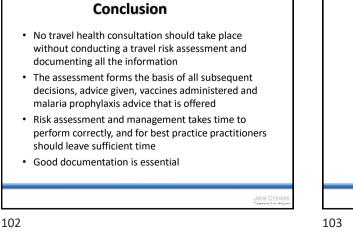
100



- Record of vaccines used must include the name of the drug, batch number, expiry date, site of administration and names of the administrator
- Ideally provide a written record of vaccinations given to the traveller

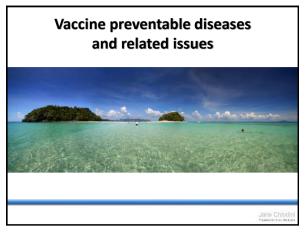


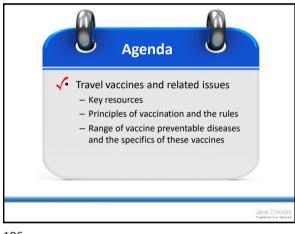
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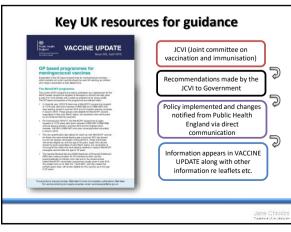










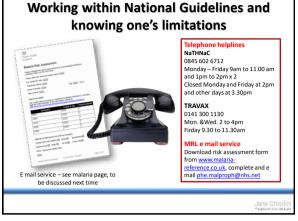


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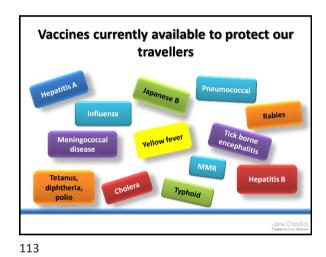
UK National databases - www.travax.nhs.uk and for the public - www.fitfortravel.nhs.uk TRAVAX

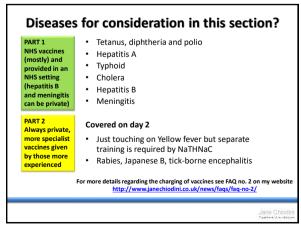
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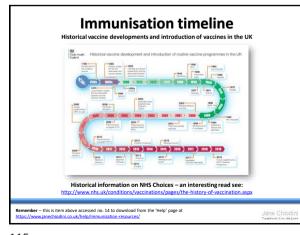


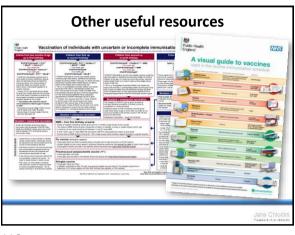


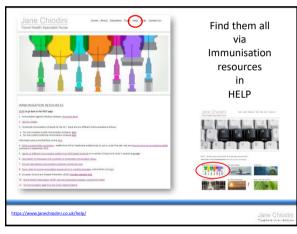


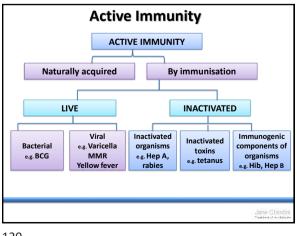




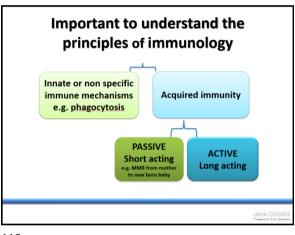


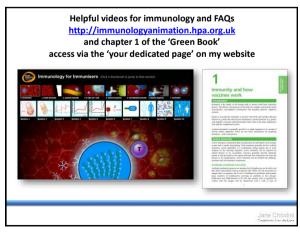






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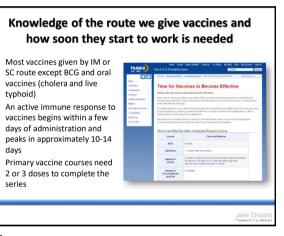
Age Medical history

• 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
Mare Choosen

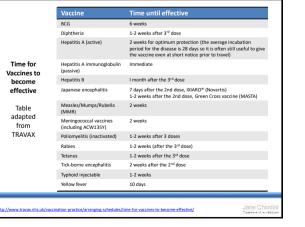
What factors might effect the immune

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124



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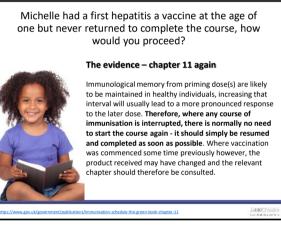


126

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127





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 ?

The evidence

between doses and repeating previous vaccine doses is not necessary unless this is explicitly

stated in the package insert. On the other hand,

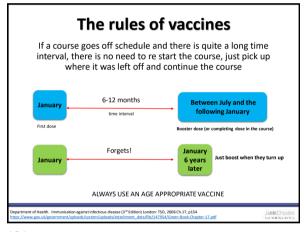
the intervals is not recommended

significant shortening of

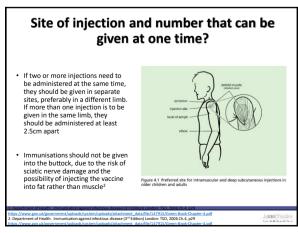
In general, it is acceptable to lengthen the intervals

130

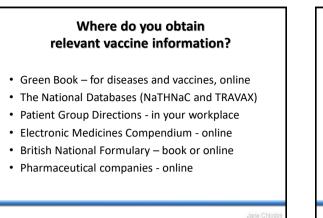
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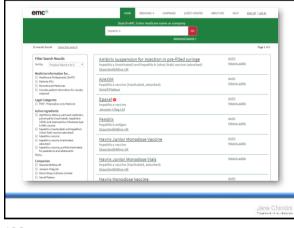






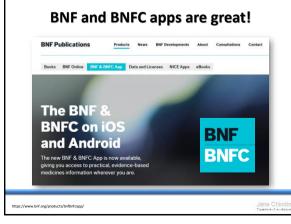


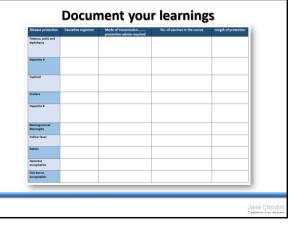
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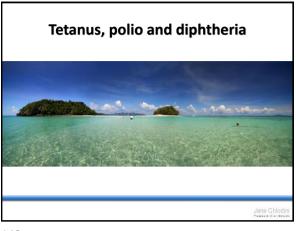


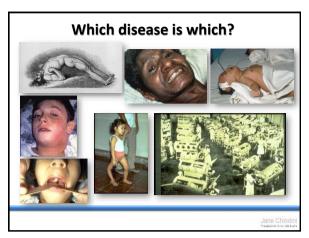


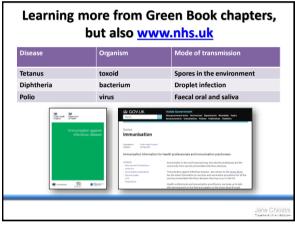


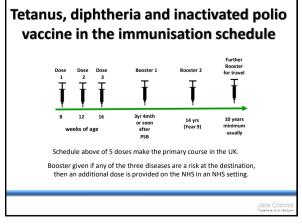




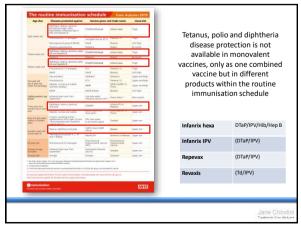














Acronyms for vaccines and values of diphtheria content – D and d Available vaccines[6] Diphtheria vaccines are available in two strengths according to dose of toxoid High-dose - vaccines contain ≥30 IU of diphtheria toxoid and are used to achieve satisfactory. primary immunisation of children - as in diphtheria/tetanus/acellular pertussis (DTaP) vaccine (capital D = high-dose). Low-dose - vaccines contain approximately 2 IU of toxoid and are used for primary immunisation of those aged over 10 years and for subsequent boosters (lower case d signifies low-dose as in dTaP). 146

Would this traveller need Td/IPV?

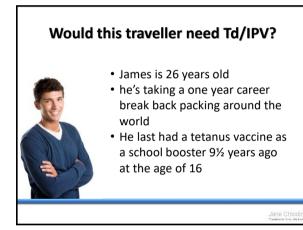
- Lucy is 19 years old and is going on a two week holiday in the Galapagos Islands
- She is up to date on all her scheduled national programme immunisations
- She hasn't travelled abroad before
- No PMH, she is on the OCP only



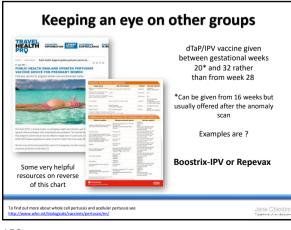
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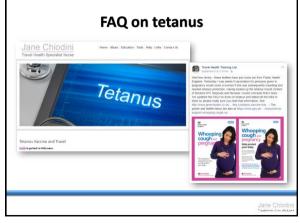
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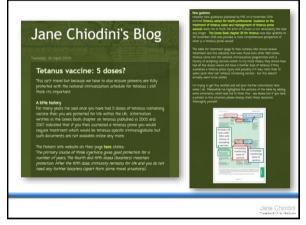


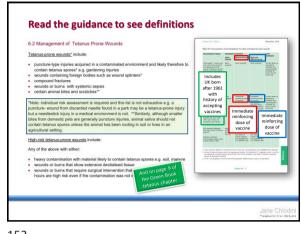
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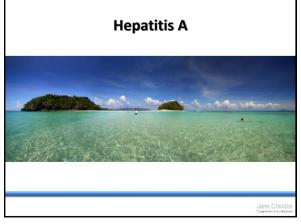


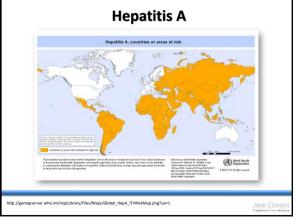




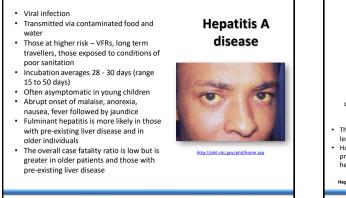




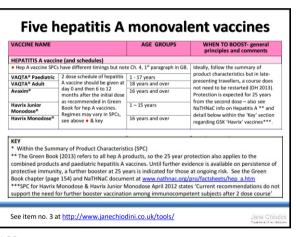


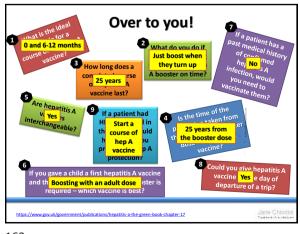




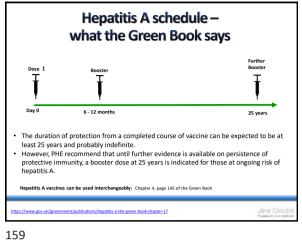


https://www.gov.uk/government/publications/hepatitis-a-the-green-book-chapter-17

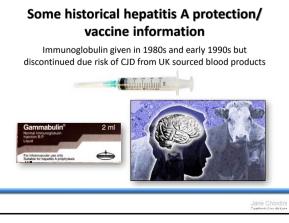




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Some historical hepatitis A protection and vaccine information

- 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

er skilares

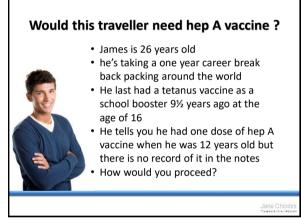
164

Would this traveller need hep A vaccine?

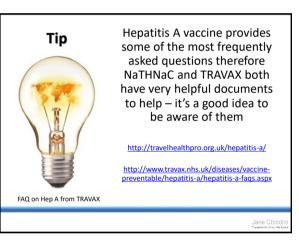
- Lucy is 19 years old and is going on a two week holiday in the Galapagos Islands
- She is up to date on all her scheduled national programme immunisations
- She hasn't travelled abroad before
- No PMH, she is on the OCP only
- Which vaccine schedule would you give?



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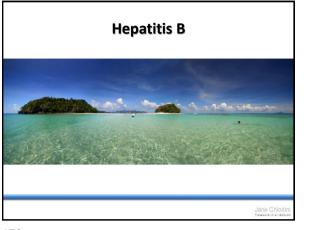


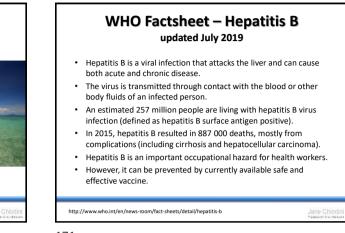
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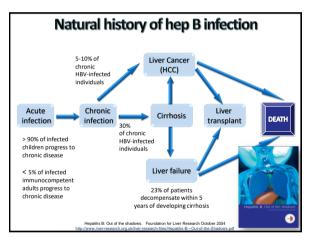


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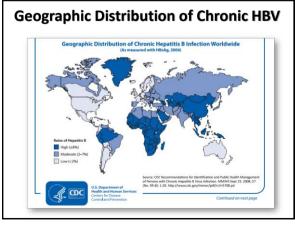


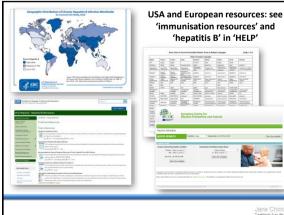


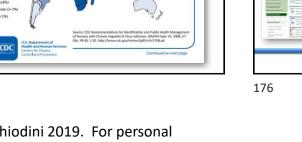


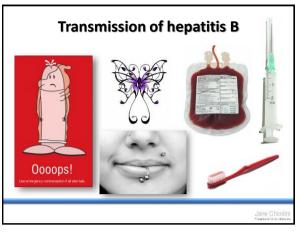






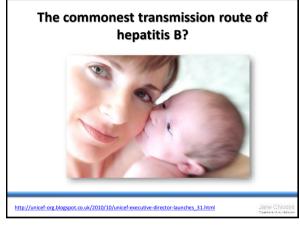








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Green Book recommendations for hepatitis B vaccine

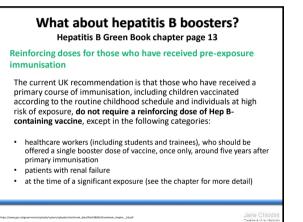
- Injecting drug users
- Individuals who change sexual partners frequently, particularly MSM and commercial sex workers
- Close family contacts of a case or carrier
- Families adopting children from countries with a high or intermediate prevalence of hepatitis B
 Foster carers
- Individuals receiving 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
- Individuals in residential accomodation for those with learning dificulties

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

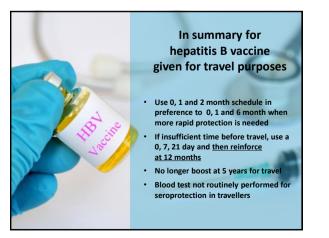
181



HEPATITIS B vaccine (and schedules) Impor ingerix B [®] - 0, 1 and 6 months ingerix B [®] - 0, 1, 2 months	rtant – Hep B now in the Over 16 years Over 16 years	e childhood programme not included here Note: 0, 1, 2 month schedule Green Book doesn't advise 4 th dose at 12 months		
Engerix B* - 0, 7, 21 days & 12 months	Over 16 years Over 18 years in SmPC – But also 16 -18 years in Green Book	opean't advise 4 th dose at 12 months unless they remain at continued high risk, see Ch.18 Page 16. Note SmPCs do advise 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 vaccine 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		

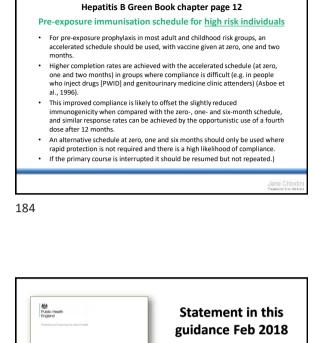


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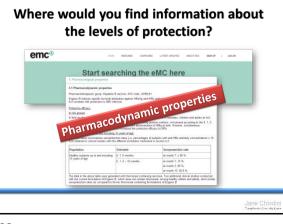
- not yet in the Green Book

for phased re-

Plan for phased re-introduction of hepatitis B vaccine for lower prior groups in 2018

Booster doses in healthcare workers

Which schedule?

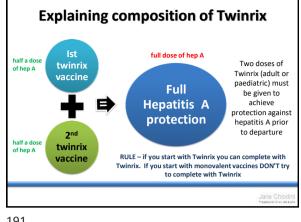


On the advice of the Joint Committee on Vaccination and Immunisation (JCVI), boosters priority group 5) will no longer be routinely required in healthy, immunocompetent adults who have completed a primary course of vaccine, including healthcare workers who are known responders.

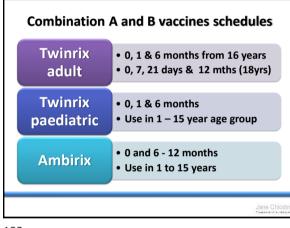
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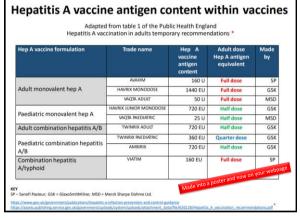
		ary recommen		
Hep A vaccine formulation	Trade name	Hep A vaccine antigen content	Adult dose Hep A antigen equivalent	Made by
Adult monovalent hep A	AVAXIM	160 U	Full dose	SP
	HAVRIX MONODOSE	1440 EU	Full dose	GSK
	VAQTA ADULT	50 U	Full dose	MSD
Paediatric monovalent hep A	HAVRIX JUNIOR MONODOSE	720 EU	Half dose	GSK
	VAQTA PAEDIATRIC	25 U	Half dose	MSD
Adult combination hepatitis A/B	TWINRIX ADULT	720 EU	Half dose	GSK
Paediatric combination hepatitis A/B	TWINRIX PAEDIATRIC	360 EU	Quarter dose	GSK
	AMBIRIX	720 EU	Half dose	GSK
Combination hepatitis A/typhoid	VIATIM	160 EU	Full dose	SP
			poster and now on	your webp



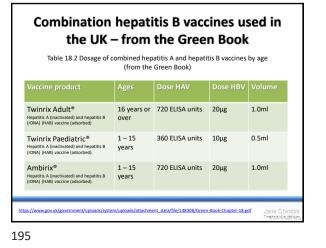
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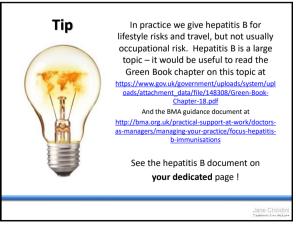
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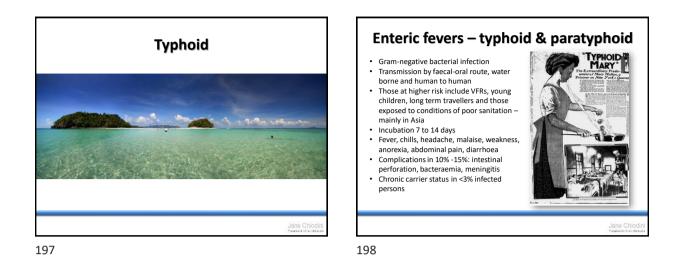




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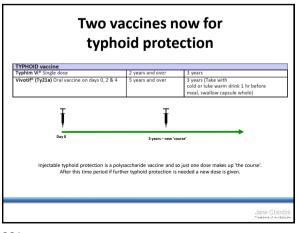


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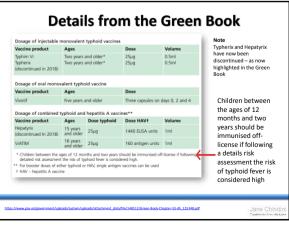


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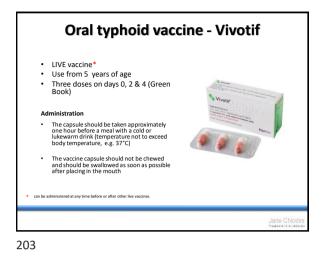
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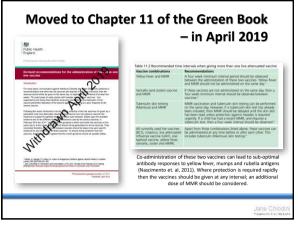
https://www.gov.uk/government/publications/typhoid-andcases-in-england-wales-and-northern-ireland

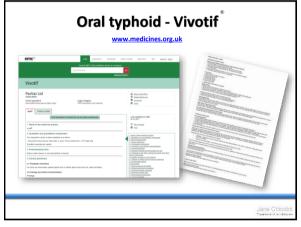
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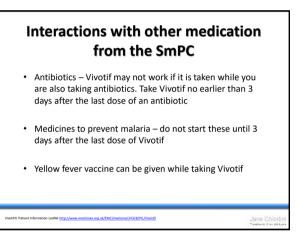




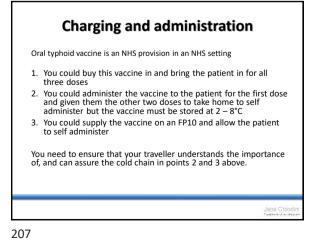


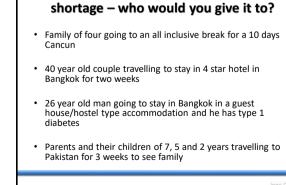


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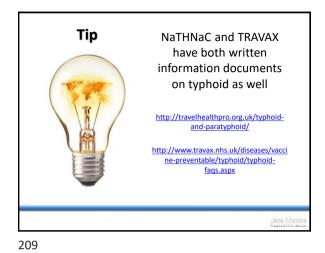






Prioritising typhoid vaccine if there is a

208



COMBINED vaccines (and schedules)

 Vintrame (repatitis A and typholid) Single dose

 16 years and over

 19 years (and schedules)

 Vintrame (repatitis A and typholid) Single dose

 19 years (and schedules)

 Statistical and typholid) Single dose

 19 years and over

 19 years (and schedules)

 Statistical and typholid) Single dose

 10 years (and years for the schedules)

 10 years (and years for the schedules)

 10 years (and years for the schedules)

 11 years (and years for the schedules)

 12 years (and years for the schedules)

 13 years (and years for the schedules)

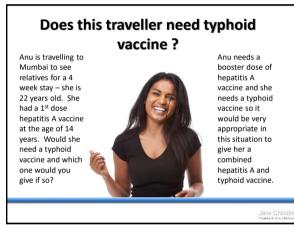
 14 years (and years for the schedules)

 15 years (and years for the schedules)

 16 years and over (base of hep A vaccine as long as there is the three year interval to fulfill the typhoid requirement of the vaccine)

Hepatitis A + Typhoid

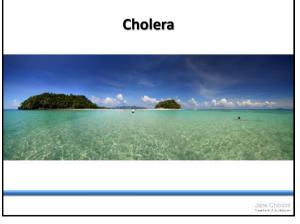
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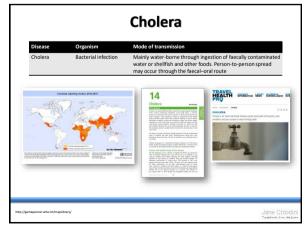
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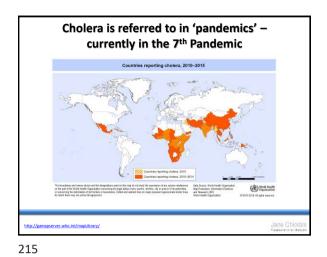


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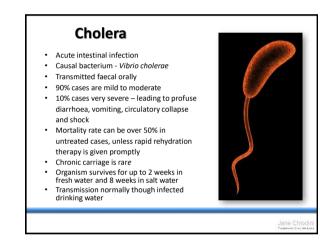




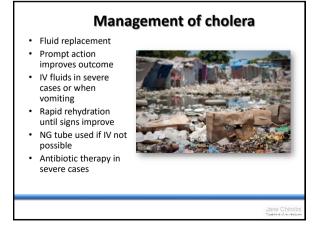




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Cholera recommendations for administration

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.

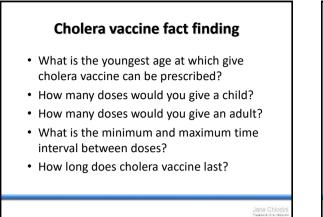
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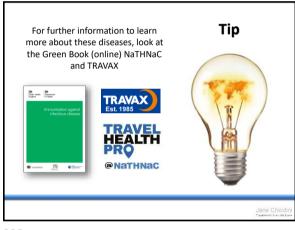
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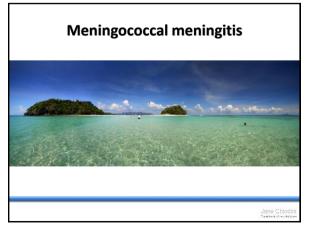
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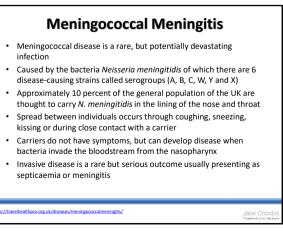
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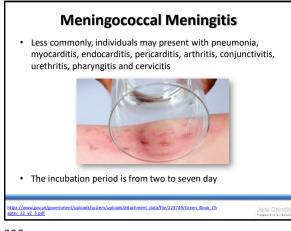
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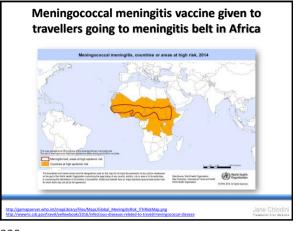
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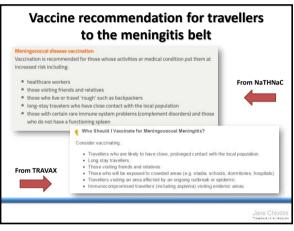




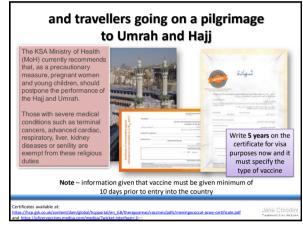


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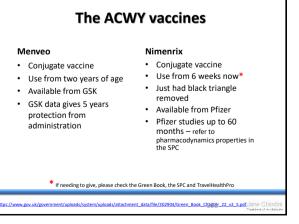


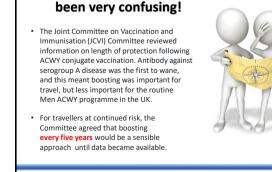


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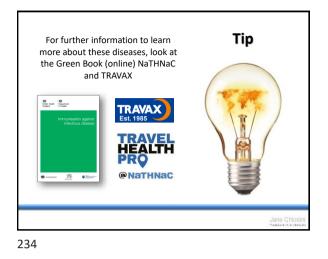


When would you boost - it's

http://www.who.int/wer/2016/wer9126-27.pdf?ua=1



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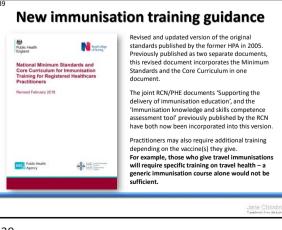


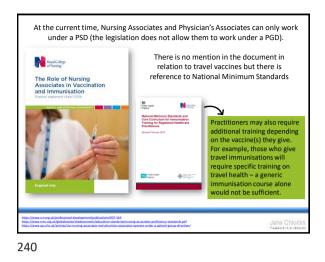










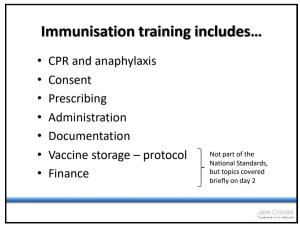












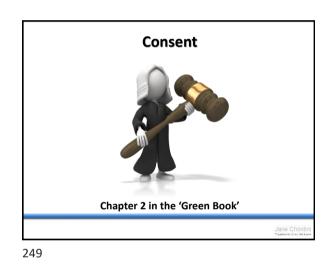








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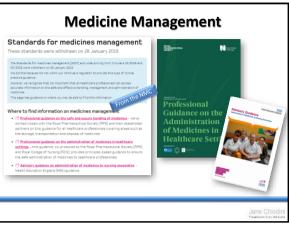
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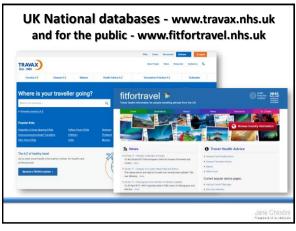




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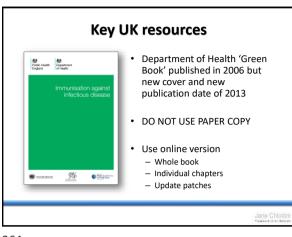


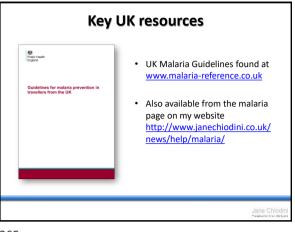




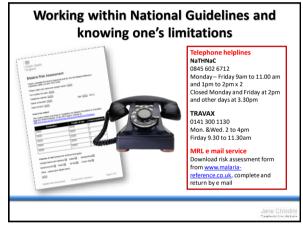












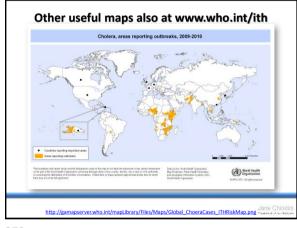
















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Interim work between the two study days listed on your webpage

- 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.

Chiodini

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