

### **Outline of presentation**

- Establish what risk communication is and the challenges it presents
- Identify the more effective methods from the risk communication literature
- Apply this concept to the travel medicine consultation
- Demonstrate personal tools used to communicate risks to my travellers

### What is Risk Communication?

- Risk communication is an open two way exchange of information and opinion about harms and benefits, with the aim of improving the understanding of risk and of promoting better decisions about clinical management
- Risk communication should therefore cover
  - The probability of the risk occurring
  - The importance of the adverse event being described
  - The effect of the event on the patient

Ahmed et al. Communicating risk. BMJ 2012;344:e3996

### Why is risk communication important?

- Where there is good evidence of the benefits of an intervention, risk communication should aim to go beyond simply sharing information and endeavour to change beliefs or promote behavioural change (e.g. wearing of a seat belt when in a car)
- Many healthcare decisions have no single 'best treatment' and require trade-offs between harms and benefits – risk information in this scenario should therefore promote patient involvement, informed decision making and shared management plans (e.g. malaria chemoprophylaxis discussion)
- However, final decisions depend on the patient's own values as much as they do on the risk information presented

Ahmed et al. Communicating risk. BMJ 2012;344:e3996

### How should risk information be presented?

- Method is important and influences the degree to which perceived risk will affect behavioural change
- As clinicians we are communicating risk in our day to day work but we will only change behaviour if our communication is effective

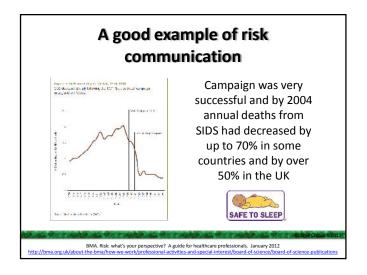
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### A good example of risk communication

- Avon study of SIDS in 1989 identified sleeping position as a risk factor
- The 'Back to Sleep' public health campaign communicated the risk of prone sleeping position to parents

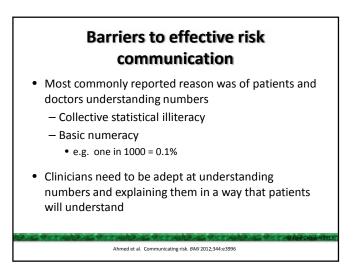


BMA. Risk: what's your perspective? A guide for healthcare professionals. January 2012 http://bma.org.uk/about-the-bma/how-we-work/professional-activities-and-special-interest/board-of-science/board-of-science-publications









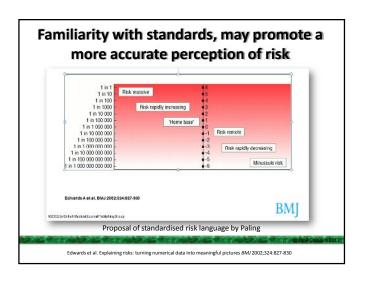




### Problems re language of risk

- Risk perception of an individual is a challenge for communication
- Terms such as probable, unlikely, rare etc. have been shown to convey "elastic concepts"
  - Interpretation and understanding of terms can vary from person to person
- Proposals to standardise risk language have been made

Edwards et al. Explaining risks: turning numerical data into meaningful pictures BMJ 2002;324:827-830 Health Protection Network. Communicating with the Public about Health Risks. Health Protection Network Guidance 1. Health Protection Scotland. Glassow 2008.



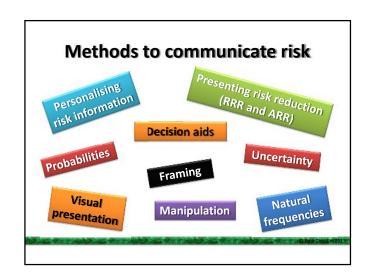




### Communication Don't use medical jargon Be precise and specific Focus language on positive options Reinforce a message with repetition Create mechanisms to help people remember the message Simple bar charts may be preferred to other formats such as thermometer scales, survival curves, pie charts Comparison with everyday risks is invaluable Care not to overload information

Edwards et al. *BMJ* 2002;324:827-830 Health Protection Network. Communicating with the Public about Health Risks. 2008.

General approach to risk





### Skills needed for effective risk communication

- Clinical competence and expertise
- · Caring and empathic approach
- Transparency and openness
- willingness to discuss the patient's own expectations and fears
- This can increase an environment for decision making based on trust

Edwards et al. *BMJ* 2002;324:827-830

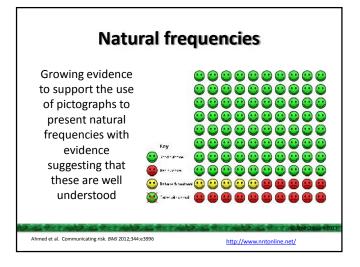
Health Protection Network. Communicating with the Public about Health Risks. 2008.

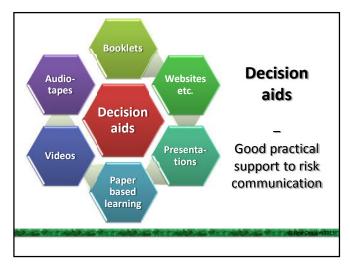
### Uncertainty

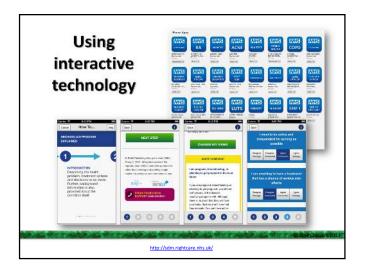
- Uncertainty is one of the most difficult elements of risk communication
- Uncertainty can arise out of incomplete information, sometimes because the science underpinning a topic is changing rapidly – acknowledging limitations is central to gaining trust
- Communicating uncertainty may also lead to lower decision satisfaction among patients

Ahmed et al. Communicating risk. BMJ 2012;344:e3996

# Further education online Uncertainty Uncertainty Welcome to Understanding Uncertainty Autority of the Windows of the Windo







### When and how should risk communication be conducted in a travel consultation?

Given the importance of the topic and potential outcome from its impact it should:

- Take place during the risk assessment process and continue into counselling on the risk management advice
- Actively involve the traveller in treatment decisions vaccines and malaria chemoprophylaxis

Wolfe Acosta R, Woolfe Ms. Structure and organization of the pre-travel consultation and general advice for travelers.

In: Keystone J et al, Eds. *Travel Medicine* 2<sup>nd</sup> Edition. Philadelphia: Mosby; 2008. p. 35-45

### Travel clinic communication and non-adherence to malaria chemoprophylaxis

- Important to have a clear structure
- Take a proactive approach to eliciting and responding to concerns
- Highlighting key issues
- Managing the flow of information
- · Facilitating shared decision making
- · Being creative in problem solving

Farquharson L, Noble L, Behrens R. Travel Medicine and Infectious Disease 2011; 9, 278-283

### Malaria Research providing strong risk communication message



- The highest numbers of malaria cases were seen in VFRs but they were far less likely to die
- Overall case fatality was 3.0% in tourists compared with 0.32% in VFRs
- Mortality increased with age, with the elderly almost ten times more likely to die than those aged 18-35 years
- Death rate among tourists is particularly high when returning from a 'winter sun' holiday in the Gambia

Checkley AM et al. BMJ 2012;344:bmj.e2116

### Use of bar charts increase effectiveness e.g. malaria risk communication Fig 1 Horday from imported P Edephron models in UK between 1967 and 2009 by age. Fig 2 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 2 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 3 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 3 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 4 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 5 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 6 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 7 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron models in UK between 1967 and 2009 by age. Fig 8 Northalty homissported P Edephron mo

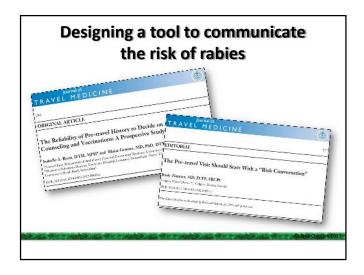
## Risk communication to VFRs • Education in schools • Engaging highly respected people within a community — Community leaders — Celebrities • Targeting opportunistically for preparation of travel advice



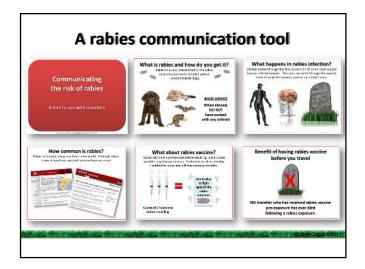


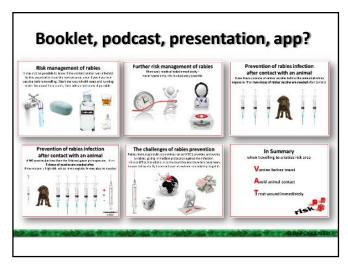






## Additional information post CISTM13 The following two slides illustrate a communication tool the author has designed and created for the risk of rabies in a travel health context. The intention is for it to be used in consultation with a traveller, using the pictorial illustrations to discuss the issues. Text is added for information, but is not expected to replace verbal discussion. PLEASE NOTE, the information written in this tool follows guidance provided in the United Kingdom on rabies management and may not necessarily be the same as that found in other country guidance. The intellectual property of this tool has been copyrighted to Jane Chiodini. For further information or discussion please contact me at jane@janechiodini.co.uk This tool is undergoing audit at present and when completed will be posted on www.janechiodini.co.uk for general use.





### In summary

- Risk communication is fundamental to shared decision making with travellers
- As evidence increases of the risks travellers encounter, so research is needed to identify best ways of communicating these risks
- There is much work to do!

