



Keeping Europe healthy

Risk communication in theory and in practice

Ben Duncan, Corporate Communications Officer, European Centre for Disease Prevention and Control Presentation to EpiSOUTH, Madrid, 16 June 2009

Road map



Brief introduction to the theory of risk communication



Road map



- Brief introduction to the theory of risk communication
- Perspective of a communications practitioner
 - Experience from recent infectious disease outbreaks



Road map



- Brief introduction to the theory of risk communication
- Perspective of a communications practitioner
 - Experience from recent infectious disease outbreaks
- A few word about ECDC



ECDC's mission and activities

" Identify, assess & communicate current & emerging health threats to human health from infectious diseases" (EC Regulation 851/2004)

- (Risk assessment role and it has advisory role to the EC and MS on risk management issues)
- Detection of health threats: surveillance and epidemic intelligence;
- Provide evidence-based scientific opinions/advice;
- Strengthen preparedness and response
 - -Operate the early warning system and response
 - -Support MS in outbreak investigation and RA;
 - -Build capacity through training
- Health Communication

ECDC: scientific and technical institute





 Many (most?) human decisions are based on "gut reaction" rather than logic





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Risk = Hazard + Outrage

There is real science behind this





The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 2002



Daniel Kahneman

1/2 of the prize
USA and Israel
Princeton University
Princeton, NJ, USA
b. 1934
(in Tel Aviv, Israel)

"for having integrated insights from psychological research into economic science, especially concerning human judgment and decision-making under uncertainty"



1970s – 1980s



Three Mile Island



Chernobyl



1990s



"British beef is safe."





2000s

SARS in 2003 spread internationally at alarming speed





2000s

SARS in 2003 spread internationally at alarming speed



Doctors told: get ready for flu crisis

Deadly virus enters Europe for first time GPs preparing for epidemic to strike 14 million

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Winter 2005-2006 – "bird flu"

Academic experts and "Gurus"



- George Cvetkovich
- Baruch Fischhoff
- Lynn Frewer
- George Gaskell
- Joye Gordon
- Ragnar Löfstedt
- Ortwin Renn
- Peter Sandman
- Robert Ulmer

Risk Communication and Public Health, P. Bennett and K. Calman eds., OUP, UK, 1999

IPTS Report Special issue: Perspectives on Crisis and Risk Communication, IPTS, Seville, March 2004 http://www.jrc.es/home/report/englis h/articles/vol82/welcome.htm Peter Sandman's website:

http://www.psandman.com

Facilitating an evidence informed approach to risk communication



The role of outrage (and fear) in risk perception: Peter Sandman's model of how the public assesses most hazards

"safe"

Natural Voluntary Controlled by self Trustworthy sources Responsive process Familiar Not memorable No moral relevance Not dreaded Chronic "risky"

Industrial Involuntary Controlled by others Untrustworthy sources Unresponsive process Unfamiliar Memorable Moral relevance Dreaded Catastrophic

© Peter Sandman 1987, 2006 (Based on the risk perception work of Paul Slovic)

Facilitating an evidence informed approach to risk communication





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WHO Outbreak Communication Guidelines, Geneva, 2005







Communicating about infectious diseases



Three reasons to be cheerful

- Outbreaks are "natural" events public accepts they will happen
- Most infectious diseases are "low dread"
- Doctors and health system are usually perceived as "high trust"
- Outrage starts if public perceive that authorities are:
 - Slow to respond
 - Less well prepared than they should be
- Trust can be lost if authorities perceived as withholding information

What do the media (and public) want to know?

- What has happened?
- How many people are sick / dead?
- How can people protect themselves?
- What are the symptoms?
- What are the authorities doing to address the situation? Risk management
- What happens next?









Outbreak communication





This diagram illustrates a common epidemic curve that forms during infectious disease outbreaks. Proactive and effective public communication plays a direct role in reducing illness and saving lives.





Thank you!

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How things work during a health emergency





Case study – emergence of new H1N1 influenza virus



- Daily epidemiological reports
- Media given daily access to senior experts
- Factual info, admitting to uncertainties
- Senior health experts regarded as credible by media



Case study – transatlantic traveller with suspect XDR-TB, May 2007



- US citizen diagnosed with TB but travels to Europe against advice of health official
- Lab results showing XDR-TB
- Refuses to go into care of Italian health authorities – goes on the run
- Travels back to US via Canada. Put into Federal Quarantine as soon as gets back to US
- EU epi experts assess risk as very low but...
- Director of US CDC to give press conference
- CDC plans to screen all passengers on flights
 - Patient was "virtually asymptomatic"

Case study XDR-TB: the result



- Risk assessed as low but precautionary measures agreed by EU countries
- Screen "grey zone" passengers
- Information and suggested media line circulated to all EU countries
 - advance copy of US press statement
 - risk assessment + suggested media messages
 - statement put on ECDC website



Some rules for successful communication during an emergency

- Understand your audience
- Treat them with respect



- Acknowledge legitimacy of their concerns
- Be open about uncertainty and gaps in your knowledge
- Announce early
 - If authorities do not talk to media they report rumours and self appointed "experts"
- Communication should build trust
 - Do not exaggerate risk
 - Do not give false reassurance
- Involve communications experts throughout emergency

Coordination and coherence between different partners



Communication mandate



"The Centre shall communicate on its own initiative on the fields within its mission, after having given prior information to the Commission and Member States. It shall ensure that the public and any interested parties are rapidly given objective, reliable and easily accessible information with regards to the results of its work."

(ECDC Founding Regulation (851/2004), Article 12 (1))

- Obligation to communicate about results of scientific work
- Obligation to communicate to public and media, as well as experts
- Prior information to MSs and Commission



Communication: Work areas

- Communication to the media and the European public
- Communication to professional audiences
- Supporting the Member States with their communication activities







Member States



Communication strategies



Target-group specific approach to all scientific communication

- Fully integrate a communication element in all disease-specific activities
- Effectively disseminate ECDC's scientific output

ECDC's disease- specific orogrammes	 Influenza Tuberculosis Food- and waterborne diseases and zoonoses Emerging and vectorborne diseases Vaccine-preventable diseases and invasive bacterial infections HIV, STI and blood-borne viruses Antimicrobial resistance and healthcare-associated infections 	Image: second
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Eurosurveillance



- Open-access, editorially independant, peer-reviewed
 - Free of charges to readers and authors
 - Listed in MEDLINE/Scopus
 - Published by ECDC since March 2007
- Epidemiology, prevention and control of communicable diseases from a European perspective
- Weekly electronic release
 - (> 14,000 subscribers)
 - Rapid updates: peer reviewed and published in less than two days
 - Longer research articles, guidelines and reviews
 - E-alerts

- Quarterly print compilation (6,000 copies)
- application for impact factor in 2008
- Editorial board (Member States, EC, WHO)
- Associate editors



Technical and scientific publications





Animated slide: Press space bar

Web portal





Network links on grey bar: unique point of access to all ECDC-managed websites

- Gateways to various ECDC databases and services
- Integrates information offerings from the present DSN websites

New sections: country information and statistics and data

- Contextual navigation on all internal pages
- Subscription to latest updates/newsletters
- Social bookmarking

Supporting health campaigns with our partners



COUGH? SNEEZE?

An initiative of the European Union



Supporting preparedness and networking



- 2006-2007: ECDC and SANCO organise meetings to share Member States' experience of developing national pandemic communication plans
 - Preparedness checklist and indicators
- 2007-2008: communication toolkit on chikungunya fever
- 2008: ECDC and EU experts contribute to WHO Outbreak Communication Planning Guide
- March 2009, Athens: first meeting of Health Security Committee Communicators' Network









Communicating science and uncertainty

How we might like the system to work



Risk assessment

How we might like the system to work



Risk assessment

Risk management

How we might like the system to work



Risk assessment

Risk management

Risk communication

How we might like it to work



Risk management

Risk

assessment





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Risk management Implement control measures States	Commu

The audience may not be so passive !







The audience may not be so passive !





The audience may not be so passive !





