



Definitions (EC)

- Rapidly evolving Public Health Threat
 - event (incident), condition or agent, which by its presence has the potential to rapidly harm, directly or indirectly, an exposed population, sufficiently to lead to a crisis.
- Public Health Crisis
 - sequence of events following a public health threat, where the limited time available for deciding and the large degree of uncertainty leads to overburdening the normal response capacity and undermining of authority.







Crisis

- Often leave uncertainty about the epidemic potential of an event.
- In countries with a high level of health literacy, crisis is often accompanied by the health-literate public blaming decision-makers.
- In addition, emotional connotations such as fear and panic are often elements of a crisis because each person is uncertain about how a crisis might affect his or her life.
- The mass media typically trigger these dynamics.

Epidemics can evolve without a crisis, and crisis can evolve without an epidemic



Perception of risk

Lower Perceived Risk

Trustworthy sources Substantial benefits Voluntary Controllable Fair/equitable Natural origin Familiar Not dreaded Certain No children as victims

Higher Perceived Risk

Untrustworthy sources Few benefits Involuntary Not controllable Unfair/inequitable Man made origin Unfamiliar/exotic Dreaded Uncertain Children as victims

Perception of risk

Lower Perceived Risk

Not memorable Moral/ethical Clear non-verbal message Responsive Random/scattered Little media attention Victims statistical Immediate effects Effect reversible Scientifically well understood

Higher Perceived Risk

Memorable Immoral/unethical Mixed non-verbal message Unresponsive Catastrophic Much media attention Victims identifiable Delayed effects Effect irreversible Scientifically poorly understood

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Risk acceptance

- Risk acceptance is a function of
 - The individual perception
 - The society
 - The cultural environment
 - The benefits (of the hazard)
 - The costs (of prevention the hazard)
- Safety is relative:
 - it is a judgment of the acceptability of risk
 - an activity is considered safe if it's risks are considered acceptable





SARS			
 Human toll: fror No of Countries Total Cases: Deaths 	n 1 Nov, 2002 s: 32 8464 799	2 to 17 June, 2003	
Estimated economic loss			
	Growth red		
• China	0.6%	\$7.2 billion	
 Taiwan 	0.9-1.9%	\$2.5-5.3	
 Hong Kong 	1.8-4.0%	\$3.0-6.6	
Rep of Korea	0.2-0.5%	\$1.3-3.0	
 Asia region 	0.4-1.0%	\$16-30 billion	
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The costs of SARS

- Tourism was reduced in China by 40%
- In Hong Kong, retail sales down about 50%
- Airline bookings down by 85%
- Hotel occupancy in Asia reduced by 25%
- Visitors to Singapore down by 61%
- Canada hotel occupancy dropped 47%=\$100m
- SARS cost Canada \$30 million a day
- GDP growth of China declined by 0.6%











Health crisis from the "media" perspective (II)

- Difficulties a journalist may confront:
 - Initial confusion
 - No one knows. No one answers. No spokesperson. PH? What's that? The last expert to be contacted is the PH expert.
 - Media editors press to have something published before the close-down (where's the responsible person for health info?)
 - Health authorities usually don't speak, minimize the problem or hide data, facts...

All these factors increase the risk for media giving wrong or inaccurate information and thus, facilitate unjustified alarm 21

Health crisis from the "media" perspective (III)

- Journalist's duties (after a journalist): ٠
 - To report on anything that could pose a health risk
 - To promote notification of new cases
 - To inform on the actors involved in the crisis
 - To enhance investigation on the causative agent
 - Disseminate scientific conclusions
 - Press to have control measures put in place
 - To report on failures to execute them
 - To calm down and educate the population

We may not agree, but... they think its their duty 22











On a national level, the main tasks are to develop:

- National public health coordinating structure
- Public Health Incident Plan (GPP)
- Necessary legislation
- Databases
- Interagency communication mechanism
- Emergency response guidelines
- Incident exercises, training, and audits
- Preventive measures



MAD COWS DISEASE

- In 1996, UK announced that meat products from BSEinfected cattle were linked to a new form of incurable human spongiform encephalopathy - new variant Creutzfeldt-Jakob disease (nvCJD).
- From 1985, when a mystery disease now known as BSE emerged in Daisy, a dairy cow from Kent, the annual number of BSE-infected cattle rose to 731 within the space of three years. By 1989, 400 new cases appeared each week, and by 1992, 100 new cases appeared each day
- British authorities began reassuring national and international audiences in 1989 that mad cow disease was under control.



Bovine Spongiform Encephalopathy (BSE)

- · Fatal, neurodegenerative disease in cattle
- Long incubation period, about 4 years
- In the UK, more than 179,000 cattle have been infected and 4.4 million slaughtered during the eradication programme
- The disease may be transmitted to human beings who eat the brain or spinal cord of infected carcasses.
- In humans, it is known as new variant Creutzfeldt-Jakob disease (vCJD), and by April 2008, it had killed 163 people in UK, and 37 elsewhere
- The number expected to rise because of the disease's long incubation period.
- Between 460,000 and 482,000 BSE-infected animals had entered the human food chain before controls on high-risk were introduced in 1989























Key elements of the National Preparedness Plan

- Planning and Coordinating Structure
- Epidemiologic and Virological Surveillance
- Prevention and Control Measures
- NHS Response
- Communications Strategy











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