KOMUNIKASI RISIKO

"Risk Communication – Introduction and Concept"

Objectives

- Define definitions Crisis, Hazards, & Risk.
- Understand the concept of Risk Communication.
- Appreciate perceptions and factors in effective risk communication.

Definition Of 'CRISIS'

- 'Krino' To separate, to determine.
- The decision state of things, or the point of time when an affair has reached its height, and must soon terminate or suffer a material change.

...Webster

CRISIS

- "The unthinkable"/Unexpectedness.
- Characteristics:
- ► Threat to organisation Survival, system disruption, image.
- ➤ Time pressure Urgency/demand for immediate attention & decision.
- ➤ Stress Turning point for better or worst.

CRISIS

- Categories:
- Technological.
- Confrontational.
- Crisis of malevolence.
- Management failure.
- Threat from other organisation.

CRISIS

- Bound to occur
- Only 50% of corporate body has management plan/strategy
- Rarely notices its imminence
- Media Adversary or partner
- Need for media communication strategy

Health CRISIS To Media

- Outbreaks that leads to epidemic Nipah, Enterovirus 71.
- When monitoring is lax.
- Preventive measures not in place.
- Absence of 'circuit breaker'
- Slow response.
- Attempted cover-up.
- Increasing casualties.
- Death list climbing.
- Solutions not forthcoming.

WHAT IS RISK?

 Risiko - kemungkinan mendapat bahaya atau kerugian.

(Kamus Dewan, 1989)

WHAT IS RISK?

Possibility of meeting danger or suffering harm, loss.

(Oxford Advanced Learner's Dictionary, 1993)

HEALTH RISK

• Cumulative incidence:

Proportion who are exposed with disease

Attack rate:

Proportion who are exposed sick.

(Epidemiologist - CH. Hennekens)

HEALTH RISK

• Risk is the probability/likelihood/ chance of harm or undesired event and the severity of the consequences as a result of exposure to the hazard.

HEALTH RISK

• Is a function of the likelihood of harm occurring and the severity of the harm. The likelihood and severity of the harm are a function of exposure to the hazard.

WHAT IS RISK?

RISK = HAZARD X PROBABILITY OF EXPOSURE

HAZARD

Any agent (physical, chemical, biological, ergonomic, psychosocial) which has the potential to cause harm, injury, ill health, death to human or environment.

HAZARD IN HOSPITALS

Biological hazards

Hepatitis B

HIV/AIDS

Tuberculosis

Varicella/Herpes zoster

Enteric infections

Chemical hazards

Waste anaesthetic gases

Ethylene oxide

Chemotherapeutic agents

Formaldehyde

Detergents

HAZARDS IN HOSPITALS (cont.)

Physical/Mechanical hazards

Radiation

Noise

Slips and falls

Needle prick injuries

Back injuries

Psychosocial factors

Stress

Shift work

HAZARD RATING

Hazard	Definition in Terms of Potential			
Rating	to Cause Harm to People			
1	Slight injury/illness – not affecting			
	work performance or causing			
	disability.			
2	Minor injury/illness – affecting			
	work performance such as			
	restriction of activities or need a			
	few days to recover.			

HAZARD RATING (cont.)

Hazard	Definition in Terms of Potential to
Rating	Cause Harm to People
3	Major injury/illness – result in
	permanent partial disability or
	affecting work performance in the
	long term.
4	Permanent total disability or fatality.
5	Multiple fatalities (large exposed
	population).

EXPOSURE RATING

Exposure Rating	Definition
Very Low (A)	Exposures are negligible.
Low (B)	Exposures are controlled and likely to remain so in accordance with screening and performance criteria

EXPOSURE RATING (cont.)

Medium	Exposures are currently controlled to		
(C)	meet screening and performance criteria		
	but control cannot be assured.		
High	Exposures are not adequately controlled		
(D)	to meet screening and performance		
	criteria and continuously/regularly		
	exceed exposure limits.		
Very High	Exposures are excessive and will almost		
(E)	certainly result in health damage to		
	persons exposed.		

HEALTH RISK COMMUNICATION

The purposeful exchange of information about the existence, nature, form, severity or acceptability of health risks between policy makers/health care providers and public/media with the intention of changing behaviours and inducing action to minimize/reduce the hazard.

RISK COMMUNICATION

Is interaction with internal and external stakeholder groups about risks.

Aims at mobilizing action.

Aims at implementation of a transparent decision making process with the involved groups (employees, community).

Is evidence of commitment to maintain a safe and healthy workplace.

RISK COMMUNICATION

Rationale

- Communication Component of management
- Affect perception
- * Reduce fears
- * Allay misconception, anxiety, confusion
- Counter rumours
- Enhance image

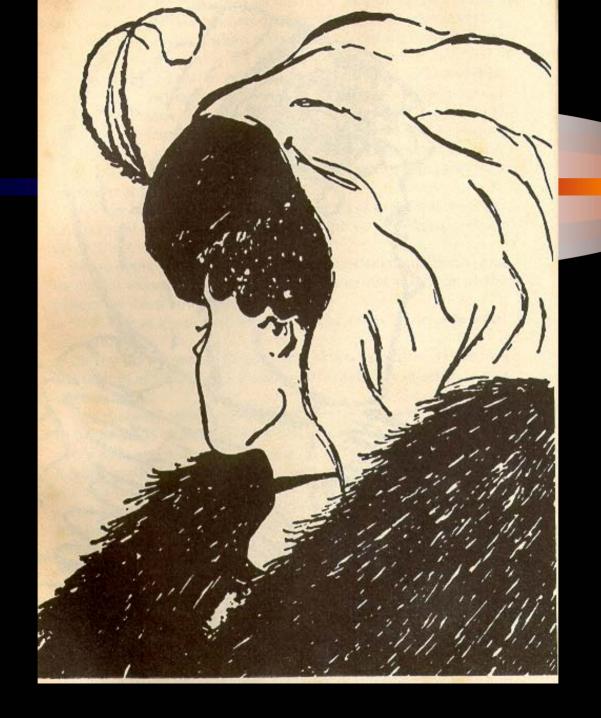
- 1. Objective/Statistical Risk vs Risk perceptions.
- 2. Use of Risk Comparisons.
- 3. Framing Effects.
- 4. Scientific and Lay perspectives.
- 5. Indirect effect and Social amplification.
- 6. Role of media: "Trigger Factors".

- 1. Objective/Statistical Risk vs Risk Perception.
- Objective/statistical risk Scientific Function on the magnitude of risk.
- Risk perception "Fright /Outrage Factors"

HAZARD VS OUTRAGE FACTOR

	High Outrage	Low Outrage
High Hazard	1	2
Low Hazard	3	4

Perception



- Risk perception "Fright /Outrage Factors".
- * Irrational fear.

Risks perceived to ... are more accepted than

Risks perceived to ...

Be voluntary

Be under an individual's control

Have clear benefits

Be fairly distributed

Be natural

Be clear damage

Be generated by a trusted source

Be familiar

Affect adults

Be imposed

Be controlled by others

Have little or not benefit

Be unfairly distributed

Be manmade

Be hidden damage

Be generated by an untrusted/

conflicting source

Be poorly understood

Affect pregnant wife/children

1. Risk perception:

- perceived risk has many dimensions.
- Public vs Individual reaction.
- Disagreement for both facts and values.
- Perception of specific risks often linked to wider beliefs.

CONSIDERATION IN RISK COMMUNICATION (cont.)

2. Use of Risk Comparisons.

- Difficult to appreciate statistic: Small risk - 1:10⁶ / 0.00015
- Tables of risk comparisons:
 Over estimate unusual risk.
 Under-estimate common killers ("availability bias").

EXAMPLES OF RISKS ESTIMATED TO INCREASE THE ANNUAL CHANCE OF DEATH BY 1 IN ONE MILLION (US STATISTICS)

Activity

Smoking 1.4 cigarettes

Spending 1 hour in a coal mine

Living 2 days in New York or Boston

Travelling 10 miles by bicycle

Flying 1,000 miles by jet

Cause of Death

Cancer, heart disease

Black lung disease

Air Pollution

Accident

Accident

EXAMPLES OF RISKS ESTIMATED TO INCREASE THE ANNUAL CHANCE OF DEATH BY 1 IN ONE MILLION (US STATISTICS) (cont.)

Living 2 months in Denver (rather than New York)

One chest X-ray in a good hospital

Eating 40lbs. Of peanut butter

Drinking 30 12oz cans of diet soda

Living 150 years within 20 miles of nuclear power plant

(Source: Wilson, 1979)

Cancer (cosmic radiation)

Cancer (from radiation)

Liver cancer (aflatoxin B)

Cancer (from saccharin)

Cancer (from radiation)

3. Framing Effects:

- Choices depends on "Frames" (provider/recipient):
 - Baselines Half empty/full.
 Survival/death.
 - Choice: Riskier Losses.
 Play safe Gains.

- ◆ Absolute vs relative risks:
 - Can mislead.
 - Absolute: Death increase from 1 to 2
 - Relative: Death increase by 100%. (favored by press).
 - Important to state baseline.

4. Scientific vs Lay perspective:

- ◆ Science/Gov. Risk on population.
 - Assume Individuals representative of population/Average person.
 - random risk/sensitivity.
- Lay person Risk to individuals.

5. Indirect Effects & Social amplification:

- Direct vs Indirect (unintended) effect.
 Social, economic, political.
- ◆ Repercussion Over distance and time.

6. Role of media:

"Media Trigger Factors".

Media Triggers:

- 1. Questions of blame
- 2. Alleged secrets and attempted "cover-ups."
- 3. "Human interest" through identifiable heroes, villains, etc. (as well as victims).
- 4. Links with existing high-profile issues or personalities.
- 5. Conflict (between experts and/or between experts and public).
- 6. Signal value: the story as potent of further ills ("What next?").
- 7. Many people exposed to the risk, even if at low levels ("It could be you").
- 8. Strong visual impact.
- 9. Sex and/or crime.
- 10. "Snowballing" of reportage: the fact that something is a "major story" is often itself a story, and this becomes self-fulfilling as media compete for coverage.

EFFECTIVE RISK COMMUNICATION:

- Earn the trust as a reliable source of information:
 - Prevent disclosure Reasons.
- The objectives of risk communication be clearly defined:
 - What.
 - For whom.

FACTORS AFFECTING TRUST & CREDIBILITY

- 1. Empathy and Caring
- 2. Competence and expertise
- 3. Honesty and openness
- 4. Dedication and commitment.
- * Trust and Credibility:
 - Difficult to achieve
 - If lost, even more difficult to regain.

CONCLUSION

- Need to Plan, identify and quantify health risk
- Prioritize risk
- Communicate
 - Public and media
 - Alert, accept, control
- Public importance of perception
- Media sensitivity
- Effective communication Trust and credibility