

Critical Incident Stress

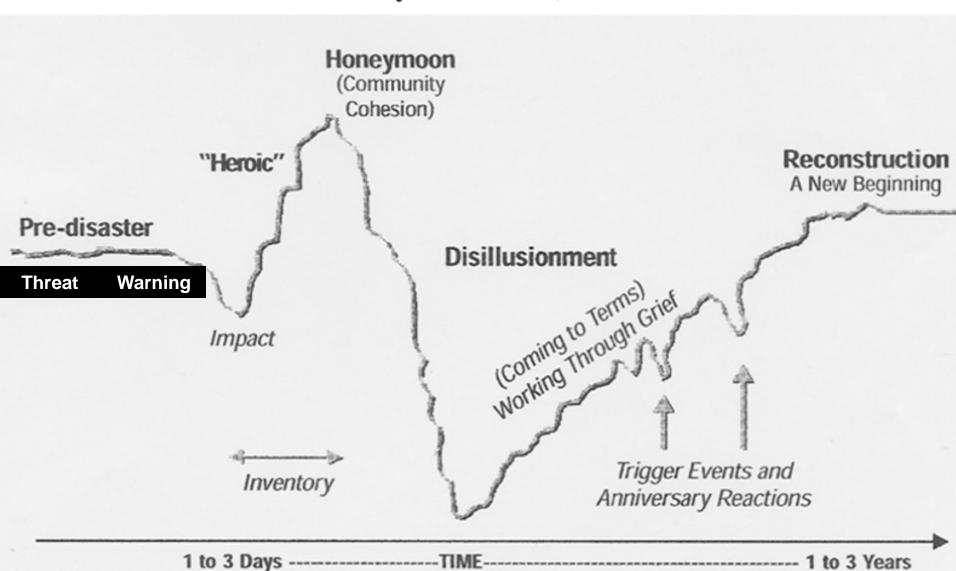
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Phases Of Disaster

Myers and Zunin, 1990



Stages of Psychological Response to Disaster

- "Rescue" stage
- "Inventory" stage
- "Reconstruction" stage

Rescue Stage

1st few hours or days after disaster

- Psychic numbing: stunned, dazed, confused
- Heightened arousal
- Survivor guilt
- Ambivalence over help
- Affective & cognitive instability

Reactions to Crises

Critical Incidents:

 unusually challenging events that have the potential to create significant human distress and can overwhelm one's coping mechanism.

Psychological crisis:

the significant distress, impairment and dysfunction in response to critical incidents. There is destabilization and usual coping mechanisms have failed.

Critical Incident Stress Symptoms

- Crisis affects people in many ways
- Individuals who have experienced a traumatic event do suffer psychological stress related to the incident
- In most instances, these are normal reactions to abnormal situations
- These emotional aftershocks may appear immediately after the traumatic event, or even weeks or months later

Critical Incident Stress Symptoms

Cognitive

- Confusion
- Hyper-vigilance
- Intrusive thoughts, images, or nightmares about the critical incident
- Preoccupation with the critical incident
- Memory disturbances

Emotional

- Increased tension and inability to relax
- Persistent worry and fear
- Guilt
- Grief reactions
- Irritability or angry outbursts
- Lessened ability to feel joy or happiness
- Sense of helplessness

Critical Incident Stress Symptoms

Behavioural

- Social withdrawal
- Restlessness
- Sleep disturbances
- Increased intake of alcohol or substances

The signs and symptoms of critical incident stress are **normal reactions** to crisis, and usually disappear over 2-3 weeks.

Symptoms lasting more than a month leads to a likely diagnosis of Post Traumatic Stress Disorder

Inventory Stage

Weeks to about 12 months after disaster

- Initial "honeymoon" phase of having survived and being safe is over
- Gradual realization of true impact or lasting consequences of disaster
- Disillusionment sets in: slowness of reconstruction, corruption etc

Inventory Stage

- "second" disaster effects
 - Rapid influx of well-meaning helpers & poor people from outside of disaster area:impact on already limited resources
 - Refuge in relief shelters for extended period of time:personal & material losses,loss of privacy/independence/familiar environment, disruption of family roles & work,issues of sanitation, personal assaults on vulnerable groups

Possible Psychiatric Complications

- Depression
- Anxiety disorders
- Alcohol and substance abuse
- Post Traumatic Stress Disorder (PTSD)

Differentiating Distress and Dysfunction

 Critical Incident Stress Reactions or Post Traumatic Stress (PTS), is a normal survival response

 Post Traumatic Stress Disorder (PTSD) is pathological, leading to difficulty in functioning.

Signs of Dysfunction

- Panic attacks
- Suicidal/Homicidal Ideation
- Dissociation
- Severe exaggerated startle response
- Violence
- Addiction
- Self-neglect
- Inability to speak/understand speech
- Recurrent dizziness & headaches

- Persistent cognitive difficulties
- Persistent hopelessness and helplessness
- Persistent sleep disturbances
- Persistent irregular heartbeats
- Seizures
- Loss of consciousness
- Numbness/paralysis

Crisis Intervention

Research Findings

The Need

Disasters may create significant impairment in 40-50% of those exposed (Norris, 2001, SAMHSA)

- About 50% of disaster workers likely to develop significant distress (Myers & Wee, 2005)
- Terrorism likely to adversely impact majority of population (IOM, 2003);
- Ranges from ~ 40 90% (JHU, 2005)

The Need: Singapore Statistics

- Study of healthcare workers during SARS: 35% doctors & 25% nurses were suffering from psychiatric disorders; 20% suffered from PTSD. (Chan & Chan, 2004)
- Study on rehab staff in a General Hospital: 23.4% had psychiatric symptoms; 12.5% suffered from PTSD. (Sim & Chan, 2004)

The Need: Singapore Statistics

- Study on media workers during Asian Tsunami: 25% suffered from psychiatric disorders; 33% suffered from severe posttraumatic stress SYMPtoms. (Sim et. al., 2006)
- Study on medical relief workers: 10 % suffered from severe posttraumatic stress symptoms.

(Chan & Chan, 2006)

In the case of terrorism,

THE ICEBERG EFFECT OF TERRORISM (and disasters)... more psychological casualties than physical casualties...80/20 Effect?

(Holloway, et al., 1997, JAMA; DiGiovanni, 1999, Am. J. Psychiatry)

CRISIS INTERVENTION

- In response to the acute mental health needs of those in crisis, the field of CRISIS INTERVENTION was born
- It is a form of EARLY INTERVENTION
- It is also known as PSYCHOLOGICAL FIRST AID



CRISIS INTERVENTION

To foster natural resiliency through:

Goals:

- 1. Stabilization
- 2. Symptom reduction
- 3. Return to adaptive functioning, or
- 4. Facilitation of access to continued care

(adapted from Caplan, 1964, Preventive Psychiatry)

LESSONS LEARNED FROM COMMUNITY MENTAL HEALTH

- Early Psychological Intervention may reduce the need for more intensive psychiatric services.
 (Langsley, Machotka, & Flomenhaft, 1971, Am J Psyc; Decker, & Stubblebine, 1972, Am J Psyc)
- Early Psychological Intervention may mitigate acute distress. (Bordow & Porritt, 1979, Soc Sci & Med; Bunn & Clarke, 1979, Br. J Med. Psychol; Campfield & Hills, 2001, JTS; Everly, et al., 1999, Stress Med; Flannery & Everly, 2004, Aggression & Violent Beh.)
- Early Psychological Intervention may reduce alcohol use. (Deahl, et al, 2000, Br J Med Psychol; Boscarino, et al., 2005)

LESSONS LEARNED FROM CONSULTATION MENTAL HEALTH

(Stapleton, Medical Crisis Intervention, 2004)

- Early Psychological Intervention is improved by increased training (Cohen's d = .57 vs. .29)
- Early Psychological Intervention outcome is enhanced via multiple sessions (.60 vs .33) (plateau at 2-3 sessions, Boscarino, et al., 2005)
- Early Psychological Intervention is enhanced via the use of multiple interventions on PTS (.62 vs .55)

LESSONS LEARNED FROM THE WORKPLACE

- Post disaster crisis intervention (CISM) was associated with reduced risk for
 - binge drinking (d=.74),
 - alcohol dependence (.92),
 - PTSD symptoms (.56),
 - major depression (.81),
 - anxiety disorder (.98)
 - global impairment (.66),

compared with comparable individuals who did not receive this intervention (Boscarino, et al, IJEMH, 2005).

Crisis Intervention Promotes

Resistance

Resiliency

Recovery