10 - Psychological aspects of healthcare across the lifespan

25th May 2012

David Murphy Psychology Module Leader d.j.murphy@imperial.ac.uk

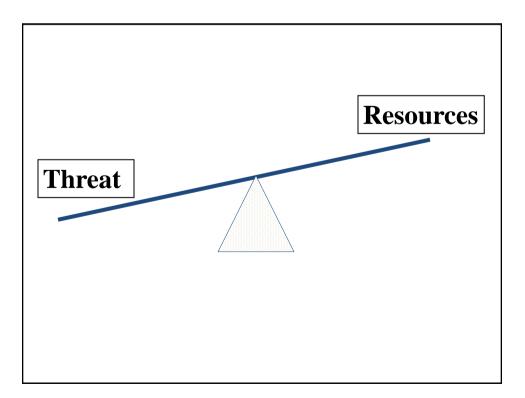
Learning objectives

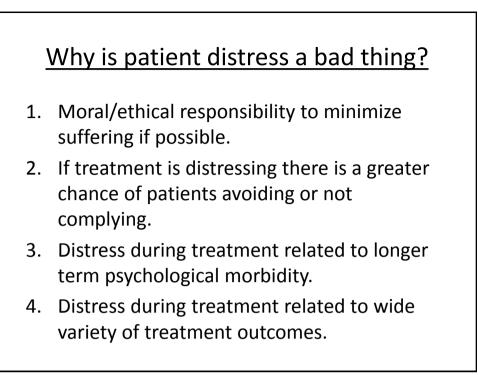
- Describe with reference to Lazarus & Folkman's Transactional definition of stress why some medical and surgical procedures are stressful.
- · Identify strategies to prepare patients for treatment
- Describe the two different types of information which can be provided and their relative efficacy in reducing distress.
- · Describe the effect of perceived control on patient distress
- Define and give examples of problem-focussed and emotion-focussed coping strategies.
- Discuss the importance of identify individual differences in preferred coping style and the importance of matching preparation to patient preferred coping style.
- Describe the specific considerations for helping children cope with treatment.
- · Give examples of effective strategies to help children cope with treatment

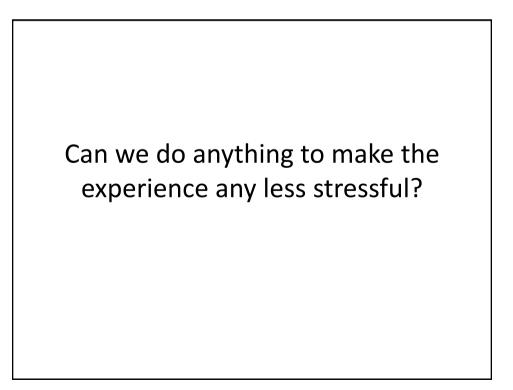
Transactional definition of stress

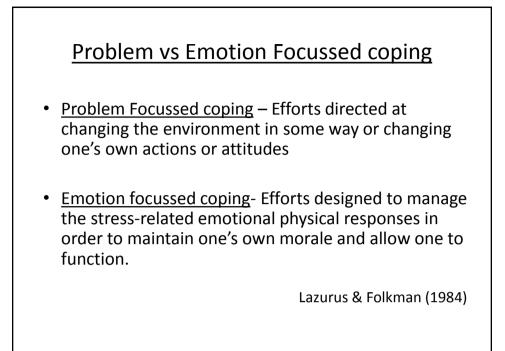
 Stress is a condition that results when the person / environment transactions lead the individual to perceive a discrepancy between the demands of the situation and the coping resources available.

Lazarus & Folkman 1984





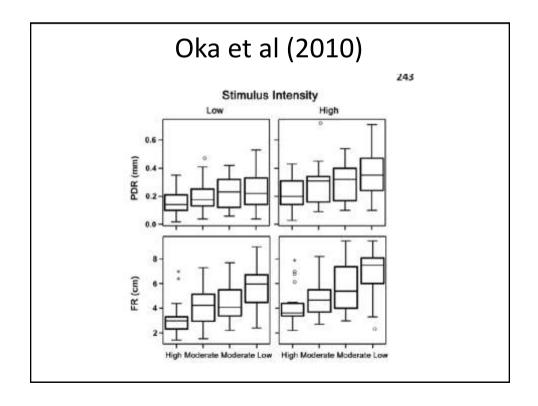






Oka et al (2010) 25 female volunteers

- 25 female volunteers
- Given electric shocks to fingertip
- Given high and low shocks in either a predictable or unpredictable sequence (same overall number and severity of shocks)
- Fear and pain ratings
- Physiological measurements including pupil diameter recording.

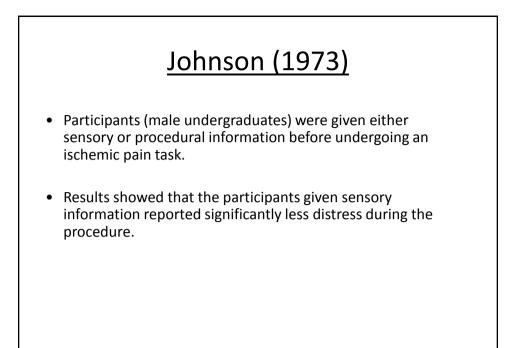


<u>Egbert (1964)</u>

- Randomly allocated 97 patients to receive preparation for surgery or normal care.
- Prepared group reported less pain, used less analgesic medication and their post-operative stay in hospital was an average of 2.7 days shorter.



- Procedural information Information about the procedures to be undertaken
- Sensory information Information about the sensations that may be experienced.



Preparation for surgery Johnson et al (1978)

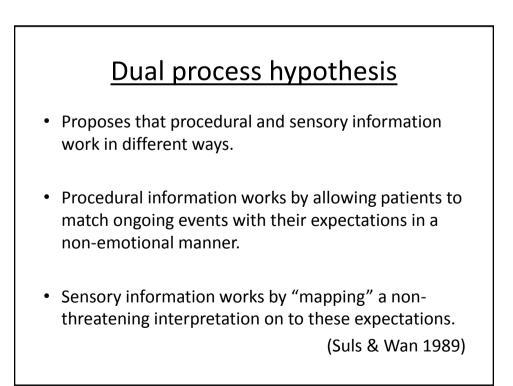
- Patients about to undergo a cholecystectomy were randomly assigned to one of three preparation groups:
- 1. Sensory information
- 2. Procedural information
- 3. Routine preparation

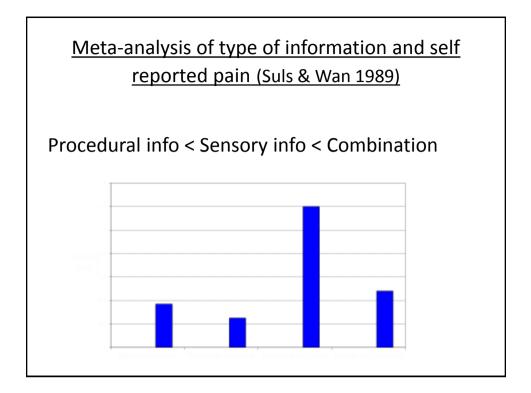
Results

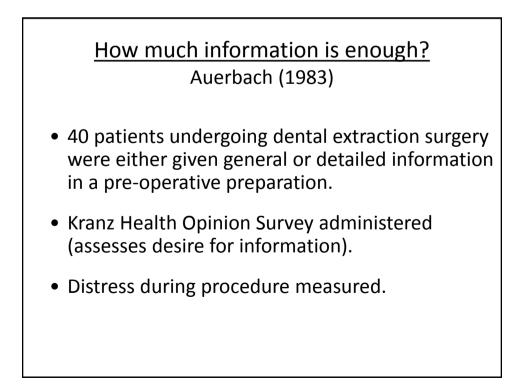
• Both procedural and sensory information led to lower levels of helplessness but only sensory information led to reduced fear.

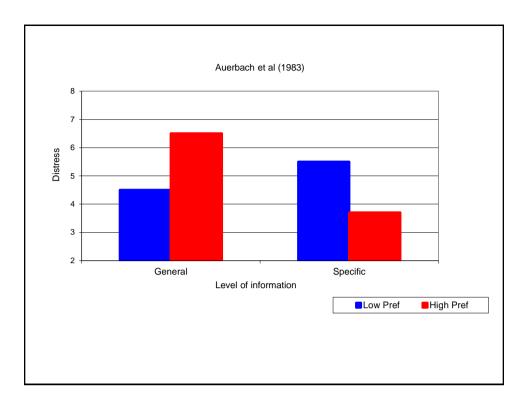
Length of hospitalization:

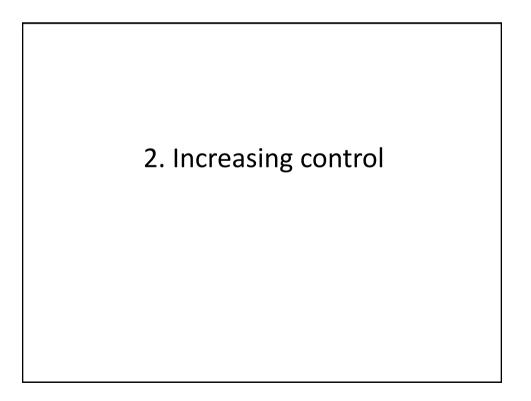
- General information 6.7 days
- Procedural information 4.7 days
- Sensory information 3.3 days (Statistically significant)











Nursing Home Study

Langer & Rodin (1976)

<u>Floor 1</u>

- In a meeting, emphasized to Ps that they could make choices and had responsibility:
- Could rearrange furniture in rooms.
- Could decide what to do in their free times.
- Choice of movies.
- Offered choice of plant which they looked after themselves.

Floor 2

- Similar meeting—emphasized to Ps how staff wanted them to be happy.
- Told that staff will ensure rooms are pleasant.
- Given a timetable of activities.
- Movie night, but no choice.
- Given a plant but nurses watered and cared for it.

Nursing Home Study: Results

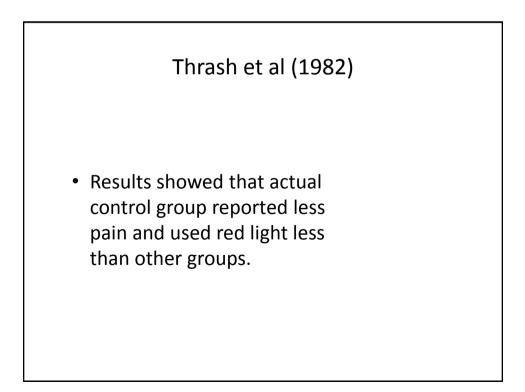
- On behavioural measures floor 1 residents (enhanced control group) showed greater engagement in activities.
- Self report and nurse's ratings showed Floor 1 residents had **better general well being**.
- 18 Months later Floor 1 residents were still rated as being more psychologically and physically healthy than Floor 2 residents.

Increasing control during <u>treatment</u> Thrash et al (1982)

 Patients undergoing dental treatment given a advice to signal discomfort (Buttons connected to green, yellow and red lights)

Three conditions:

- 1. Patients told that dentist can see lights and will stop treatment.
- 2. Patients thought dentist could see lights but in fact they were not connected.
- 3. Patients simply asked to monitor their discomfort.



3. Coping strategies



- <u>Problem Focussed coping</u> Efforts directed at changing the environment in some way or changing one's own actions or attitudes
- <u>Emotion focussed coping</u>- Efforts designed to manage the stress-related emotional physical responses in order to maintain one's own morale and allow one to function.

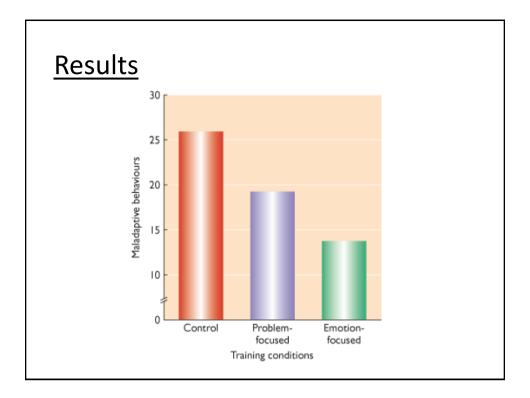
Lazurus & Folkman (1984)

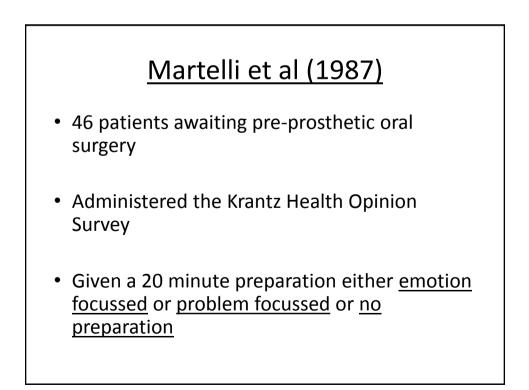
Emotion vs Problem Focussed coping

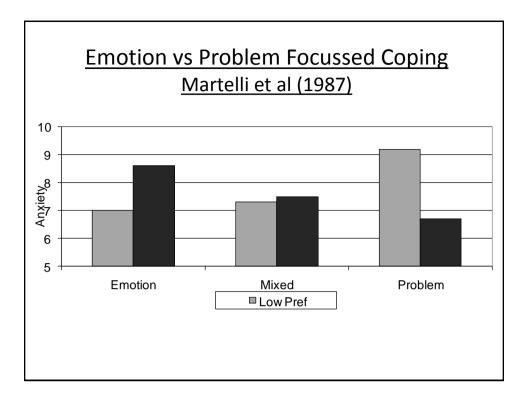
- Many studies have found that use of emotion focussed coping strategies associated with poorer adjustment and greater levels of depression e.g. Holahan & Moos (1990)
- However, need to beware of circular reasoning.
- Optimal coping strategy depends on the <u>situation</u> and <u>individual coping style</u>.

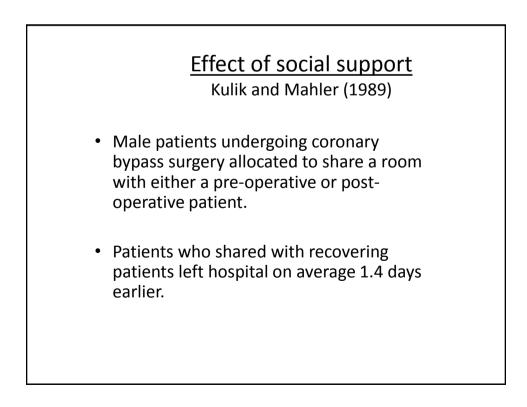
Coping strategies in an uncontrollable situation (Strentz & Auerbach 1988)

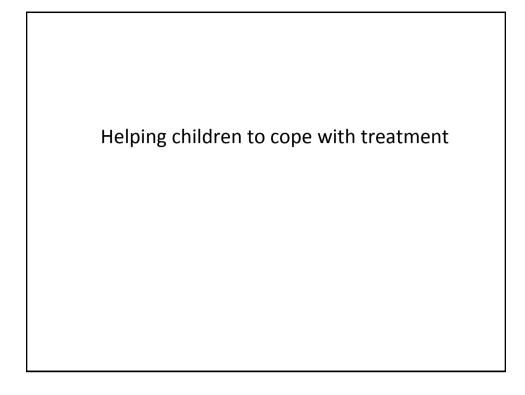
- Airline employees participated in an FBI training programme to train them to cope with hostage situations. Employees were randomly assigned to training in:
- 1. Problem focussed coping strategies
- 2. Emotional focussed strategies
- 3. Control condition
- Some weeks later they were unexpectedly kidnapped by FBI agents posing as terorrists and held captive for 4 days.











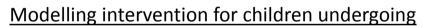
Dresence of parent in treatment Frank et al (1995) found children's distress during a routine immunization was correlated with the amount of distress shown by parents but not to subjective anxiety. Marzo et al (2003) assessed behaviour of children during dental treatment. Half children had parent present, half did not. 89% of children with the parent out were "fully cooperative" compared to 63% of the group with the parent in. Venham (1979)

Weinstein et al (2003)

- 101 children aged 7-9 years watched either
- A 2 minute video explaining what an injection feels like and showing the child a hand signal as a stop mechanism

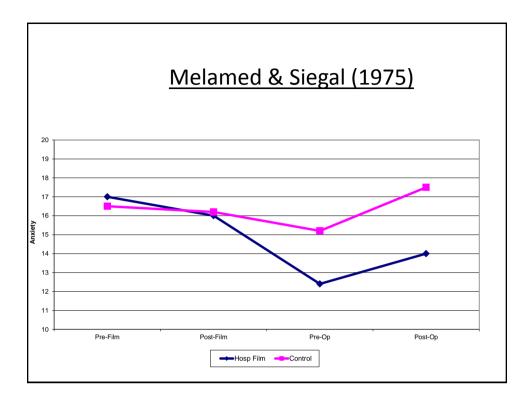
or

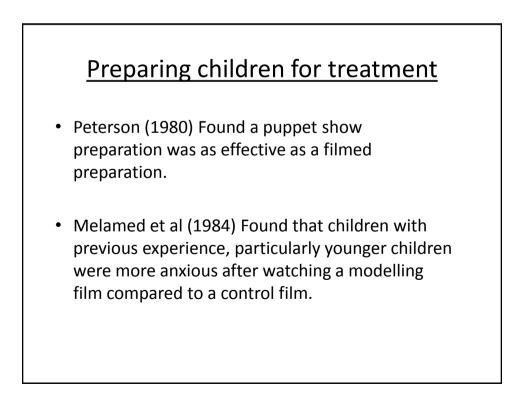
- 2. A 2 minute video about Disneyland
- Results: The experimental group, but not the control group, showed a significant reduction in distress.



SUrgery Melamed & Siegal (1975)

- Children aged 4-12 years old undergoing operations e.g. tonsillectomy.
- Half of children shown a film "Ethan has an operation" depicting child in hospital. The other half watched a control film.
- Observer rating of verbal and non-verbal anxiety behaviour measured.





Combined approach

- 1) **Tell:** Using simple language and a matter-of-fact style, the child is told what is going to happen before each procedure.
- 2) Show: The procedure is demonstrated using an inanimate object, a member of staff or the dentist him or her self.
- **3) Do:** The procedure does not begin until the child understands what will be done.