

# **Psychological treatment of Post-traumatic Reactions**

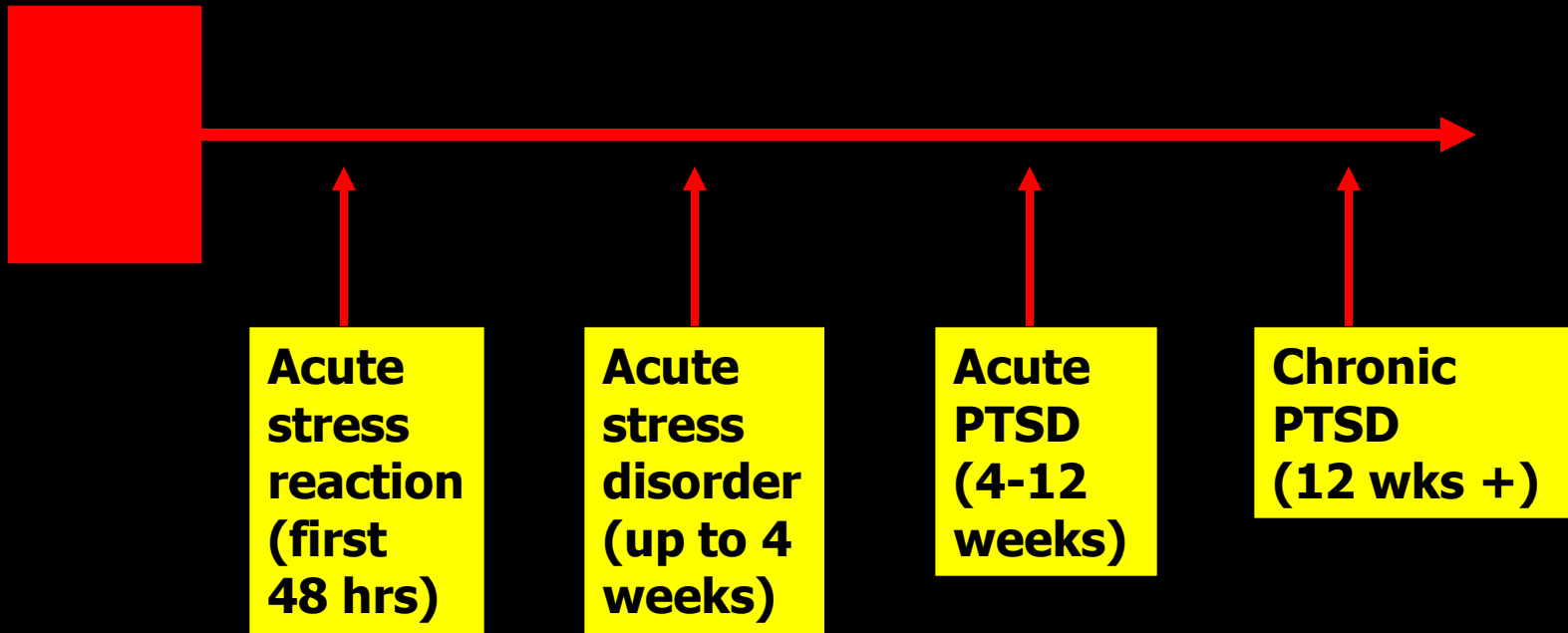
***Alastair Hull***

# ***Treatment for Post-traumatic reactions***

- is a staged approach

# Time Course of Reactions

**Traumatic event**



# *Acute Stress Disorder*

- Amazingly no good studies
- Ideal opportunity for major trial
- Is ASD just acute PTSD?

# *Early Intervention*

- Psychological debriefing
- CISD
  
- Characterised by very early intervention  
“across the board” for “all or most exposed”  
before the development of a disorder
- Cochrane review

# *Early Intervention*

Why might an intervention designed to do good, instead do harm?

- Re-exposure to trauma
- Disrupts natural coping style
- Disrupts avoidance
- Sensitizes people to expect symptoms
- Suggest that normal reactions are disorders

# *Immediate management of PTSD*

- **Psychological first aid**
  - Giving information and social support as soon as possible
- **Avoid brief single session debriefing**
- Watchful waiting if symptoms are moderate – assess whether natural recovery occurs, review at one month
- **Screen at risk groups**
  - Following disaster
  - Refugees and asylum seekers

## ***Treatment aims to...***

- “normalise” reactions
- enable catharsis
- inspire hope, restore sense of safety &/or trust
- “educate”
- treat core symptoms and comorbidity
- limit “kindling” of symptoms

# ***A legion of psychological therapies...***

- psychoanalysis (and its derivatives)
- abreaction
- hypnotherapy
- group variants
- family/marital therapy
- action-focused therapy
- art therapy
- psychodrama
- marathon therapy

## *A legion of psychological therapies (ii)*

- thought- field therapy
- "rewind" therapy
- in-patient eclectic programmes
- Imaginal exposure
- In vivo exposure
- cognitive restructuring
- Eye Movement Desentization and Reprocessing (EMDR)

# ***Metaanalysis of all treatments***

## **Van Etten & Taylor (1998)**

- psychological > medication > control
- few RCTs for PTSD
- most effective : behaviour therapy & EMDR
- combination treatments ?

# *Psychological Treatments for PTSD*

APA Task Force on Promotion and  
Dissemination of Psychological Procedures

- **“no gold standard treatments” for  
PTSD**

*(Chambless et al., 1996)*

# ***APA Task Force on Promotion and Dissemination of Psychological Procedures***

## **Proven Efficacy**

- Imaginal Exposure

## **Probably Efficacious**

- Cognitive restructuring
- EMDR

***(Chambless et al., 2000)***

# *Psychological treatment- current guidelines*

## **Key points**


- PTSD symptoms can be very resistant to therapy
- **Exposure** is key ingredient of successful psychological therapy
- **Trauma focused-CBT** and **EMDR** are the most effective

*ISTSS, APA & NICE guidelines, & consensus statement*

# Post-traumatic Stress Disorder (PTSD)

The management of PTSD in adults and  
children in primary and secondary care

Clinical Guideline  
Published: March 2005



**National Institute for  
Health and Clinical Excellence**

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NICE is the independent organisation responsible for providing  
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# ***Where is the guideline available?***

- Quick reference guide: summary of recommendations for health professionals:
  - [www.nice.org.uk/cg026quickrefguide](http://www.nice.org.uk/cg026quickrefguide)
- NICE guideline
  - [www.nice.org.uk/cg026niceguideline](http://www.nice.org.uk/cg026niceguideline)
- Full guideline: all of the evidence and rationale behind the recommendations:
  - [www.rcpsych.ac.uk/publications](http://www.rcpsych.ac.uk/publications)
- Information for the public: plain English version for sufferers, carers and the public
  - [www.nice.org.uk/cg026publicinfoenglish](http://www.nice.org.uk/cg026publicinfoenglish)

# ***Treatment is difficult because of...***

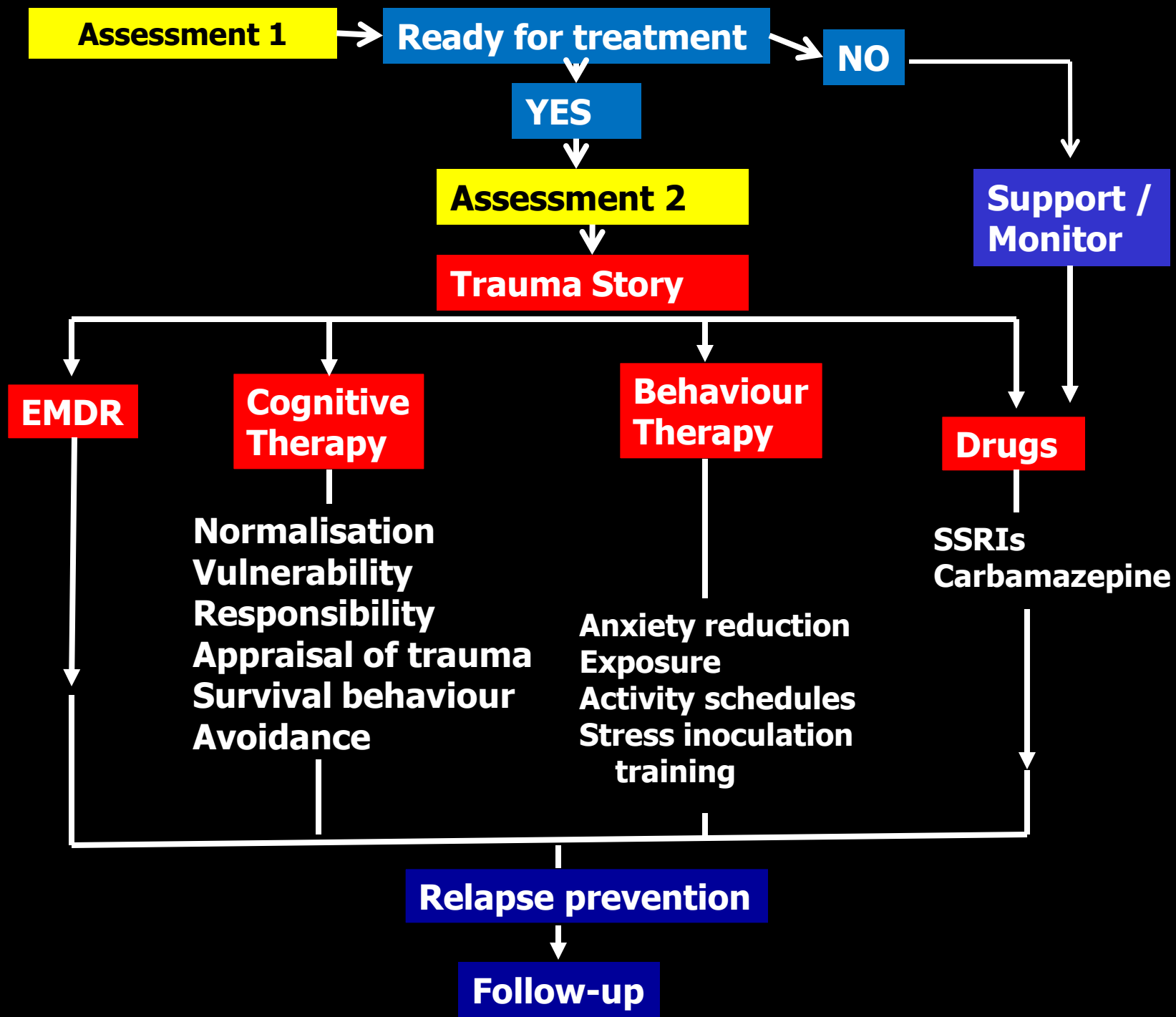
- unrealistic expectations
- delayed treatment
- poor compliance or premature discontinuation of Rx
- co-morbidity
- “re-traumatisation”
- denial and “stiff upper lip”
- unworthy of help due to guilt
- loss of trust in authority figures or members of opposite sex
- prolonged legal and compensation procedures
- credibility of treatment

*"..... he should see whether or not it was possible to make them [traumatic memories] tolerable, if not even pleasant companions, instead of evil influences which forced themselves upon his mind."*

***(Rivers, 1918)***

# *Stages of Treatment*

1. engagement
2. normalisation/crisis stabilisation (if necessary)
3. strategies to manage symptoms
4. trauma-focused CBT, including,
5. cognitive restructuring
6. ongoing support



# ***NCCMH guidelines for Psychological treatment***

## **Key points**

- Trauma-focused treatments either **CBT** or **EMDR** should be offered
- Offer **regardless of time lapse** since TE
- Rx should be **long enough, regular, with same therapist**
- **Extend** beyond 12 sessions if complex
- **If necessary**, establish a therapeutic relationship before trauma material is directly addressed
- Non-trauma focused interventions should not routinely be offered
- **Augmentation with medication** if failure to respond to above

# ***CBT for PTSD: an overview***

## **Treatment programmes vary**

- **prolonged exposure (PE) alone**
  - includes both *in vivo* exposure and imaginal exposure
    - ***in vivo* exposure** (exposure in reality to feared situations)
    - **imaginal exposure** (repeated reliving of the trauma)
- **PE plus cognitive restructuring**
- **PE plus Stress Inoculation training (SIT)**
- EMDR can be used as substitute for imaginal exposure

# ***CBT for PTSD: an overview (ii)***

## **How to choose?**

- **prolonged exposure (PE) alone**
  - more is not necessarily better
  - research shows these 2 exposure approaches are very effective

# ***CBT for PTSD: an overview (iii)***

## **How to choose?**

- prolonged exposure (PE) alone
  - more is not necessarily better
  - research shows these 2 exposure approaches are very effective
- **PE plus cognitive restructuring**
  - very effective for patients whose major problems lie in their dysfunctional thoughts, producing guilt and shame
  - and, in those with comorbid anxiety disorders

# ***CBT for PTSD: an overview (iv)***

## **How to choose?**

- prolonged exposure (PE) alone
  - more is not necessarily better
  - research shows these 2 exposure approaches are very effective
- PE plus cognitive restructuring
- **PE plus Stress Inoculation Training (SIT)**
  - in those with extreme continuous tension- often reluctant to engage in exposure until arousal levels are decreased
  - Efficacy of components of SIT not established but in combination with cognitive restructuring is effective

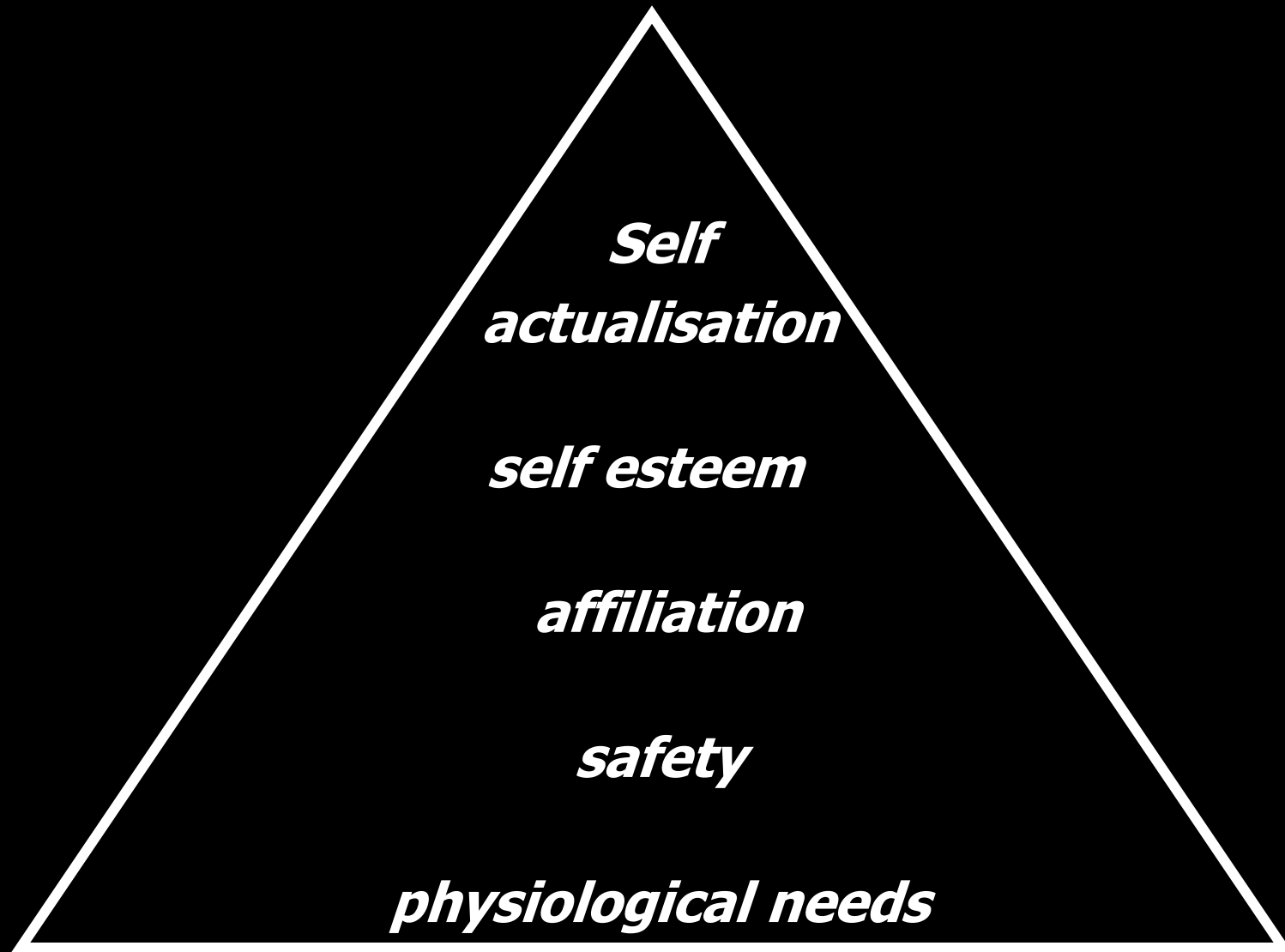
# *Specific considerations in applying CBT for PTSD*

- **reluctance to attend sessions that focus on confrontation with the Traumatic event**
  - allow more cancellations and appt changes than usual, call clients who don't attend
- **after some traumatic events fears are rooted in reality**
  - assess prior to *in vivo* hierarchy
  - think in terms of "an acceptable level of risk"
- **N.B., the traumatic event actually occurred**
  - so can be difficult to use cognitive techniques to change patient's perception

# *Overview of CBT programme*

- assessment
- stabilisation and balance
- psychoeducation
- managing symptoms, e.g., thought stopping
- rationale for IE, *in vivo* exposure, cognitive restructuring
- handout on post-traumatic reactions
- breathing retraining, relaxation
- construct and carry out *in vivo* hierarchy
- conduct IE
- conduct cognitive restructuring

***Stabilisation and balance***



***Maslow's Hierarchy of Needs (1970)***

# *Pragmatic*

- Physical safety
- Emotional safety
  - Professional or social support
- Problem solving
- Educate partner or family
- Healthy pleasures- modest goals
  - Daily routine, spending time with other people not talking about trauma, structuring day.
  - N.B., many are depressed

# *Pragmatic.....(ii)*

- compensation proceedings
- occupational health

# *TLC.... of self*

- Exercise
  - Don't advise until assessed whether hyperventilate and if they do, commence breathing training
- Sleep hygiene
  - Be aware the bedroom may be a potential trigger
- Nutrition

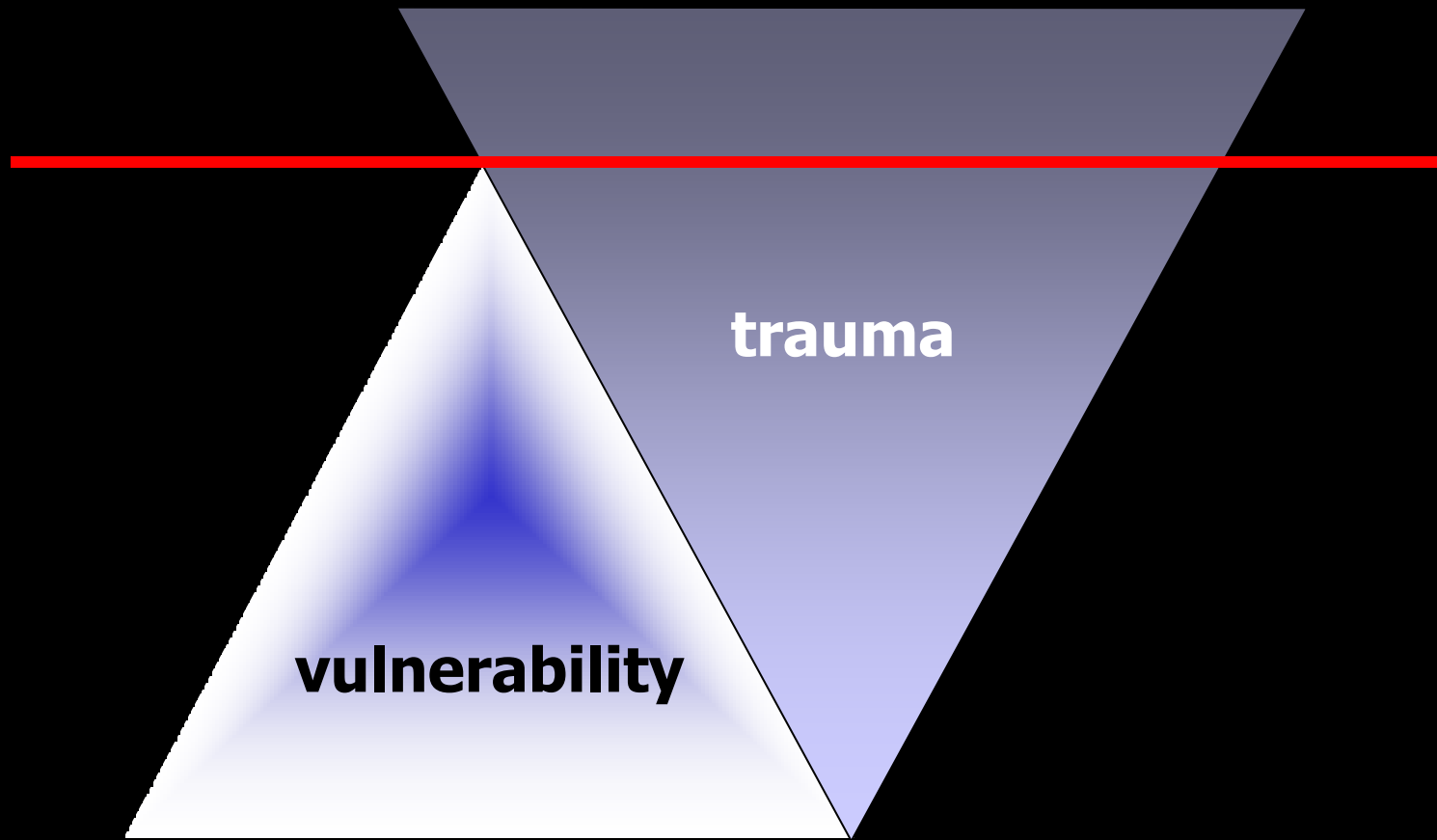
# ***Psychoeducation***

# *Psychoeducation*

- appropriate accurate information
  - police, A&E, paramedics, eye witness(es)
  - Media reports, FAI, occasionally video footage (CCTV)
  - **N.B., can lead to incorporation in memory**
    - Warn of potential medicolegal implications
    - Crown Office guidance
    - Check for gaps in sequential memory first
    - May be gaps in memory or gaps in understanding
    - LoC does not preclude PTSD
- **healing metaphor**
- range of responses to threat

# *Psychoeducation*

- appropriate accurate information
- healing metaphor
- range of responses
- reason for response.... *"why me?"*

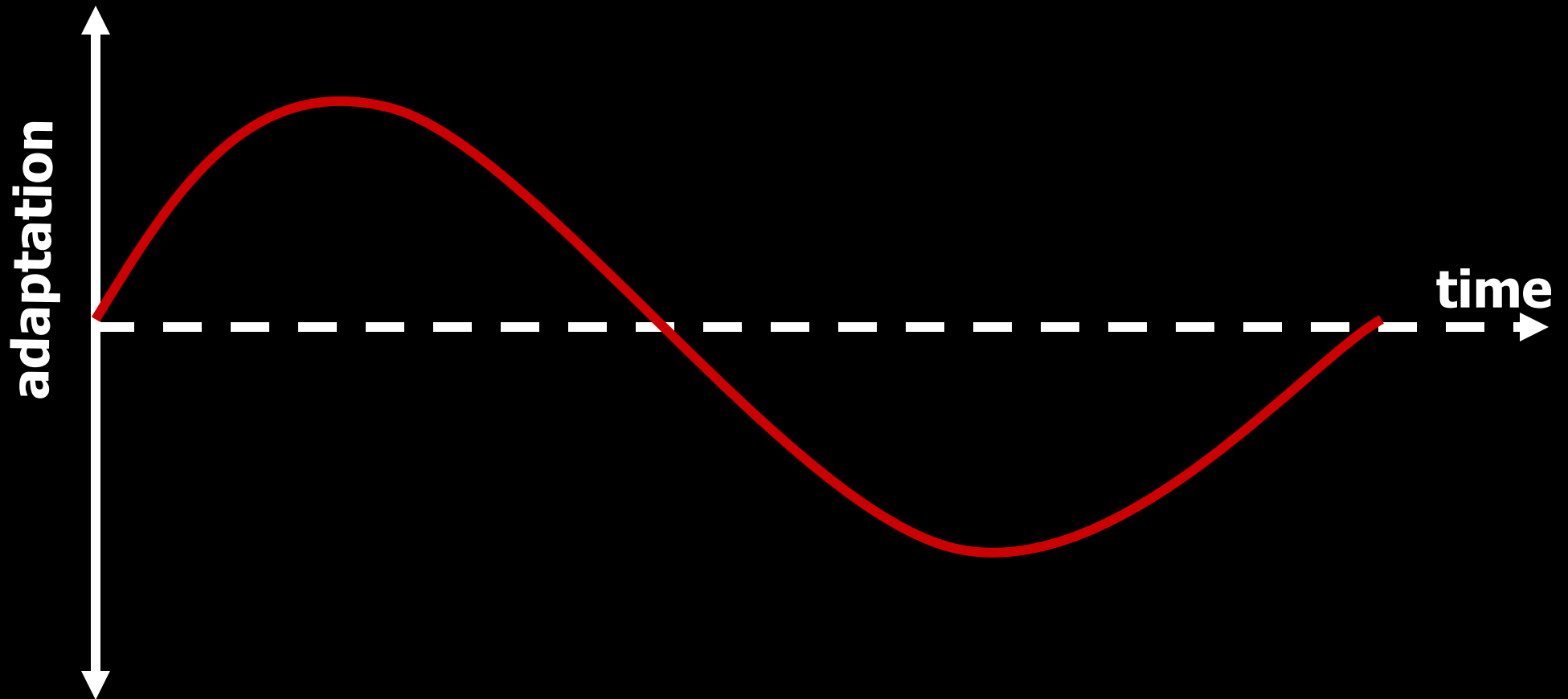


*Edna Foa, 1994*

# *Psychoeducation*

- appropriate accurate information
- healing metaphor
- range of responses
- reason for response
- phases of response

# *Adaptation after traumatic events*

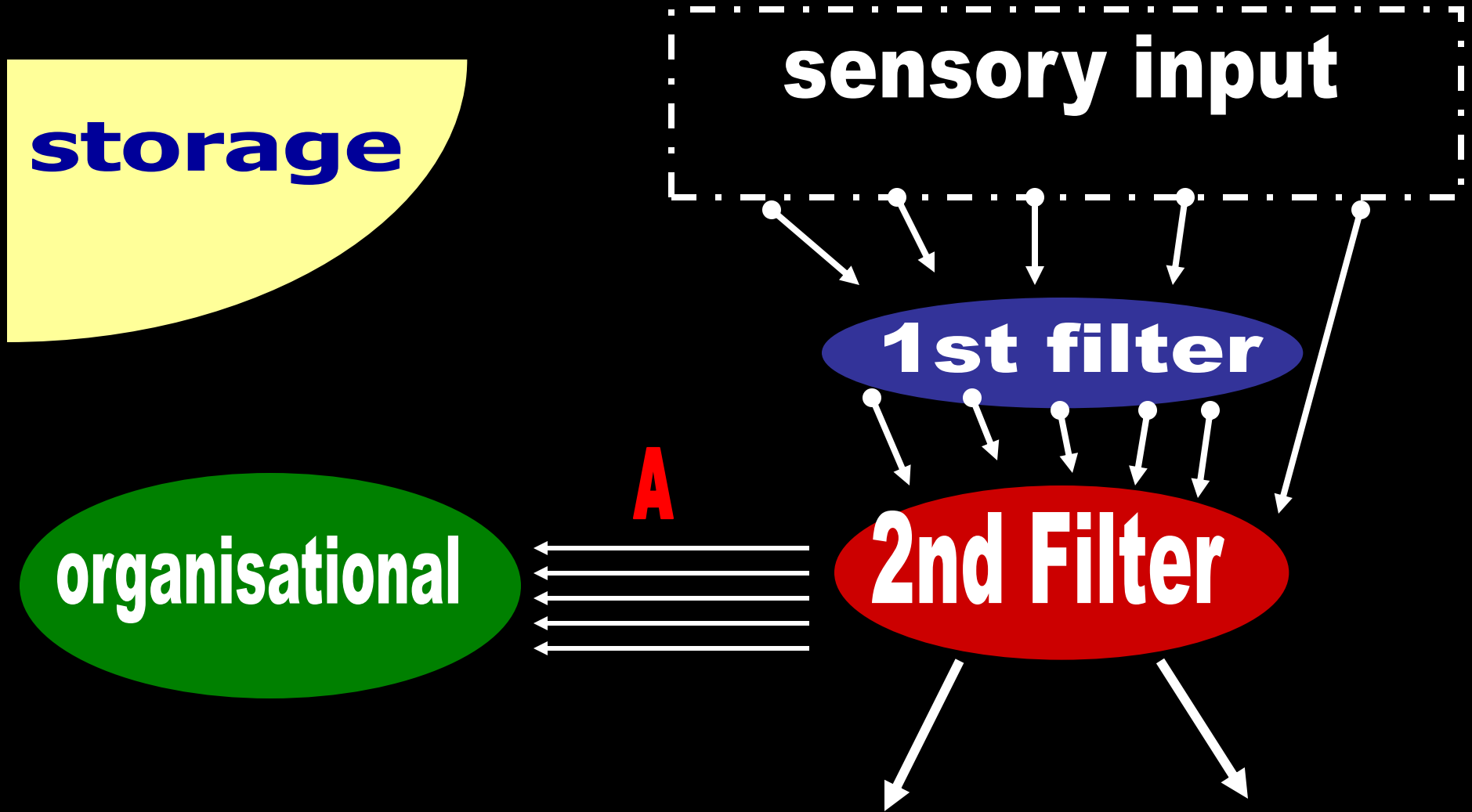


*Raphael*

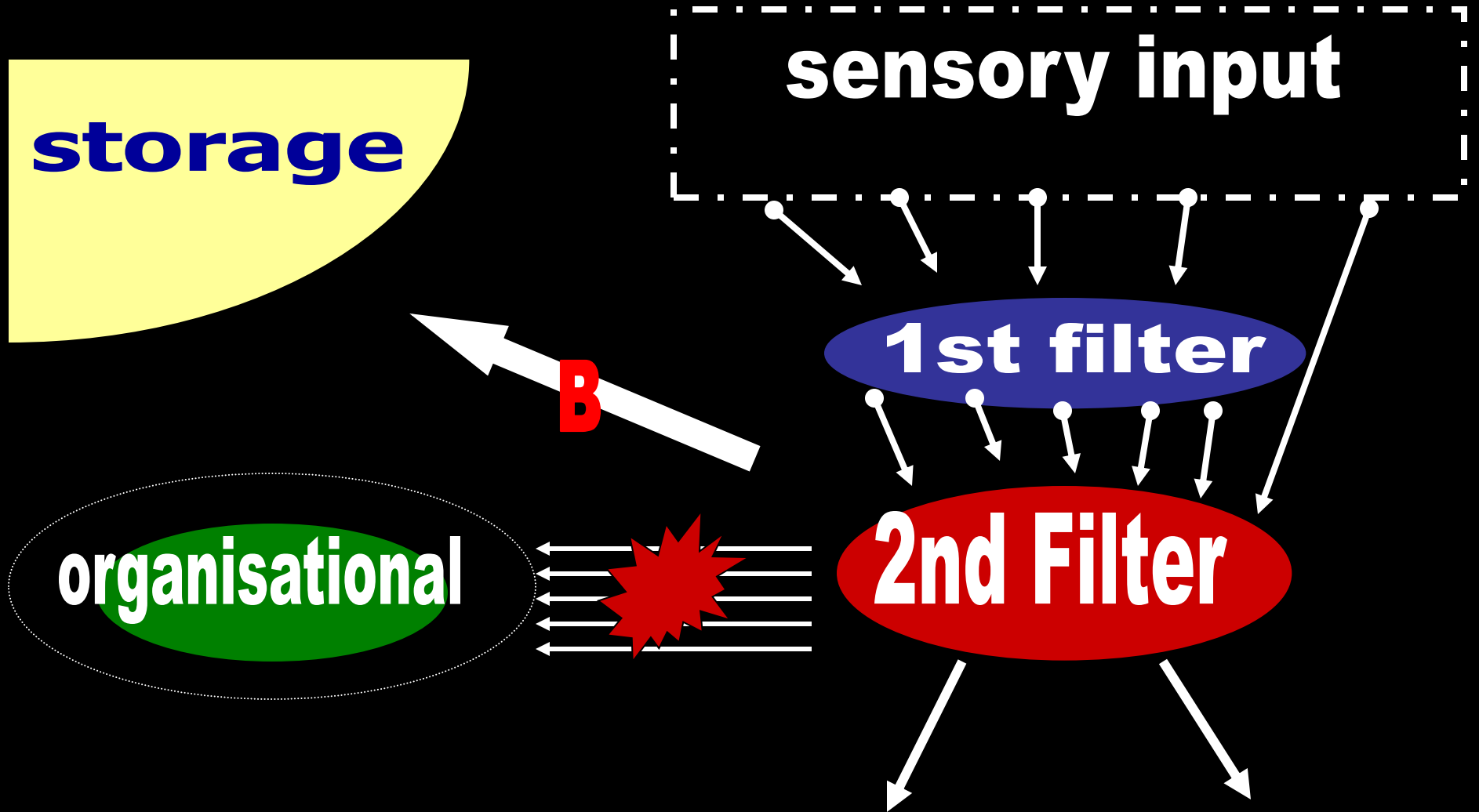
# ***Psychoeducation***

- appropriate accurate information
  - police, A&E, paramedics, eye witness(es)
- healing metaphor
- range of responses
- reason for response
- phases of response
- memory
  - “feels like yesterday”

# Limbic system



# Limbic system



# *"it feels like yesterday"*

- Broca's area decreased rCBF
- predominance of emotional areas of brain over higher cortical areas
- fragmented memories
- emotional memory on RHS brain
- dissociation

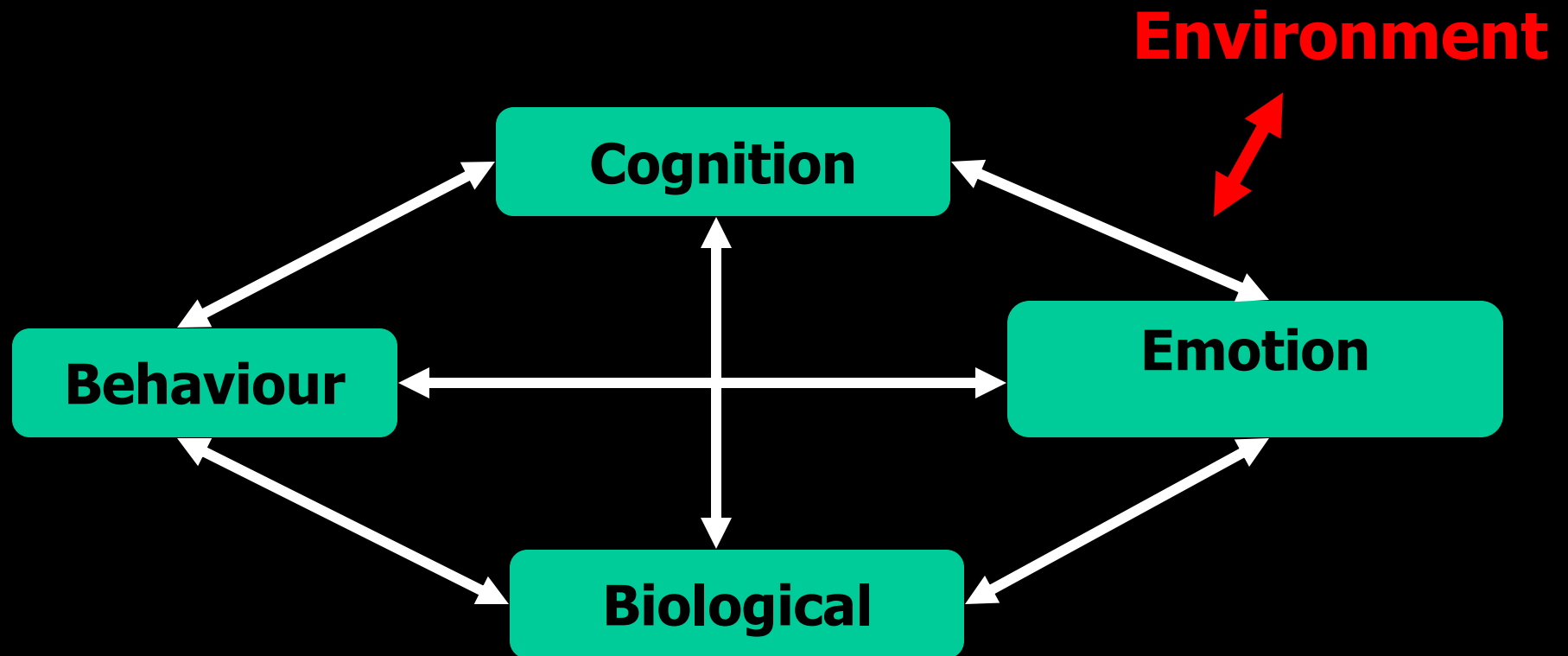
# ***Psychoeducation***

- appropriate accurate information
  - police, A&E, paramedics, eye witness(es)
- healing metaphor
- range of responses
- reason for response
- phases of response
- **memory**
  - “feels like yesterday”
  - “filing cabinet” metaphor
  - “curtained room” metaphor

# ***Psychoeducation***

- appropriate accurate information
- healing metaphor
- range of responses
- reason for response
- phases of response
- memory
  - “feels like yesterday”
  - “filing cabinet” metaphor
  - “curtained room” metaphor
- core symptoms
  - Claudia Herbert’s book
- educate partner and/or family

# ***Model of emotional disorders***



*Padesky & Greenberger, 1996*

***Managing symptoms***

# *Relaxation*

For example.,

- PMR
  - N.B., physical injuries
- imagery
  - trauma survivors often become very good at imagery

# *Relaxation*

## **Limitations**

- can provoke relaxation-induced anxiety in some clients
- less effective than other therapies
- adjunct rather than central therapy

# ***PMR for trauma survivors***

- tensing in PMR might trigger anxiety in some people
  - Use calming self-statements
  - “I am safe now; tension is just a reminder of an old memory”
- keep eyes open as you practice
- start with briefer periods of practice
- keep a record of relaxation
  - Progress can be very motivating

# *Visualisation*

- Mindfulness techniques
- Light stream technique...

# *Managing Intrusive Thoughts*

- Cannot avoid thinking about TE completely
- Thinking about it at times is important
- **Prescribe 30mins per day** if too many intrusive thoughts
- Strategies are required to limit them at other times to limit interference with other activities
- **Distraction techniques/activities**
  - Absorbing activity, especially if physical and mental aspect (e.g., juggling)
  - Mental distraction techniques useful as can use without others noticing

# *Managing Intrusive Thoughts*

## **Strategies**

- focus on small area and describe in detail
- **focus on surroundings with all senses**
  - describe in detail everything can see, hear, smell, touch, taste
  - this keeps in touch with “here and now” reality
  - mental exercises such as serial 7s, animal A-Z
  - describe happy memory in detail to self
  - describe a safe place (relaxed and happy)
- **Thought stopping**
  - especially for constant thoughts or ruminations

# *Managing Intrusive Thoughts*

## **Thought stopping**

- Especially for constant thoughts or ruminations
- **Elastic band & stop**
  - Gradually say it quieter and quieter
  - After 10-15 times just saying it to self
  - Snap band each time
- **Non-dominant hand writing**

***Memory work***

# *Cognitive Processing- very briefly*

- developed by **Resick & Schnicke** (1992, 1993)
- incorporates elements of CT and Ex.
- CT        challenging problematic cognitions such as self-blame and undoing of the TE
- Ex        writing a detailed account of the TE and reading it to the therapist and at home. Used to provoke affect and identify “stuck points” for CT

***Cognitive restructuring***

***- very briefly***

# *Cognitive Restructuring*

## **Key features are**

- a focus on the meaning of trauma to the patient
- a systematic attempt to modify patients' false assumptions
- an attempt to help the patients to achieve a realistic view of themselves, their environment and their future
- patients are encouraged to keep diaries or records to carry out assignments

# *Cognitive Therapy*

## **Limitations**

- may require to be used in combination with Exposure

## **N.B.,**

- Whilst not empirically validated the impression is that CR appears to occur parallel to or after successful Exposure- the relationship is a complex one.

# *Common dysfunctional beliefs & associated negative thoughts in PTSD*

## Pre-trauma beliefs about the safety of the world

*PTSD is likely to occur if:*

- **pre-trauma** the person viewed the world as a dangerous place and the TE validates this

# ***Common dysfunctional beliefs & associated negative thoughts in PTSD***

## **Pre-trauma beliefs about the safety of the world**

### ***PTSD is likely to occur if:***

- **pre-trauma** the person viewed the **world as a dangerous** place and the TE validates this
- **pre-trauma** view that the **world was safe** and the TE shatters this belief
  - in both instances the person overgeneralises to being in constant danger and there is no safe place in the world
  - results in extreme fear, avoidance and chronic hyperarousal
  - specific beliefs reflect the general belief so that:
    - *"all men are potential rapists"*,
    - *"the streets are unsafe"*,
    - *"cars are death-traps"* or
    - *"sleeping in the dark is dangerous"*

# ***Cognitive restructuring: aims and methods***

- correct mistaken beliefs such as
  - “the world is entirely dangerous” or “I am totally incompetent”
- Goal is to reduce anxiety or emotional distress by teaching clients to identify, evaluate and modify negative thoughts and dysfunctional beliefs
- teaches the patient to develop more realistic beliefs about ability to cope and the safety of the world
- Work together with negative thoughts and beliefs treated as hypotheses
- Collect evidence to determine whether the patient’s conclusions are accurate and useful

# *Exposure*

**Various terms for exposure to anxiety-provoking stimuli without relaxation....**

- **prolonged** exposure
- **Imaginal** exposure
- *in vivo* exposure
- **flooding**
- **EMDR**
- **Virtual reality**

# ***Prolonged Exposure***

- proven efficacy across a range of trauma
- includes **imaginal exposure** and ***in vivo* exposure**
- involves development of **anxiety hierarchy**
  - **continued exposure** (in controlled fashion) to frightening stimulus
  - leads to decreased anxiety (**habituation**)
  - and then **decrease in avoidance behaviour**

# *Exposure*

## **Evidence strongly supports use of combined in vivo and imaginal exposure**

- Not widely used by clinicians
- **Becker *et al* (2004)** found 80% of psychologists did not use IE in Rx of PTSD
- <20% of Behaviour therapists reported using it most of the time
- 1/3 BTs stated did not use it at all
- **“most striking discrepancy between recommended practice [imaginal exposure] and actual practice” Rosen (2004)**

# *Exposure*

**Evidence strongly supports use of combined in vivo and imaginal exposure**

## **Why not used more?**

### **Apprehensions of clinicians**

- ability to conduct effectively
- ability to appropriately manage any problematic reactions
- Therapist avoidance rather than habituation?

# *Exposure*

## **Limitations**

- realities of life e.g., rural life
- reluctance of some survivors to confront reminders and tolerate high anxiety
- may not be effective if guilt, shame or anger is the primary emotion
- care must be taken not to "*re-traumatise*" the patient

***in vivo exposure***  
***briefly***

# *in vivo* exposure

- approach/ procedure is largely consistent across disorders
- if use it for agoraphobic avoidance should have little trouble translating the technique to PTSD

# Overview of *in vivo* exposure

1. present the **rationale**
2. introduce **SUDs**
3. **construct a hierarchy** of avoided situations, people and places using SUDs.
4. develop **homework assignment** based on this hierarchy
5. instruct patient in *in vivo* exposure.....

# Overview of *in vivo* exposure

## 6. instruct patient in *in vivo* exposure

- Remind that not every situation needs to be included
- the list is representative to teach idea behind *in vivo* exposure
- however, make sure that items with SUDs of 50, 60, 70, 80, 90 & 100 (or thereabouts)
  - these are the major foci of treatment

# *in vivo* exposure instruction

- patient begins with situation that evokes moderate anxiety levels (SUDs = 50)
- patient puts him/herself into anxiety provoking (but realistically safe) situation
- patient records time and initial SUDs rating
- patient must **remain in situation for 30-45 mins**
  - Emphasise the importance of **remaining in the situation** until anxiety/SUDs decreases by at least 50%
  - Do not want them to leave the situation and feel relief but to habituate to the situation
- Patient records endpoint SUDs rating

# *in vivo* exposure instruction

- The intention is that the **client is exposed to intermediate levels of “fear”**
  - Not too great to prevent processing
  - Not too slight that they are not engaging
- If use relaxation techniques during *in vivo* exposure use only to keep “fearfulness” at intermediate level.

*imaginal exposure*

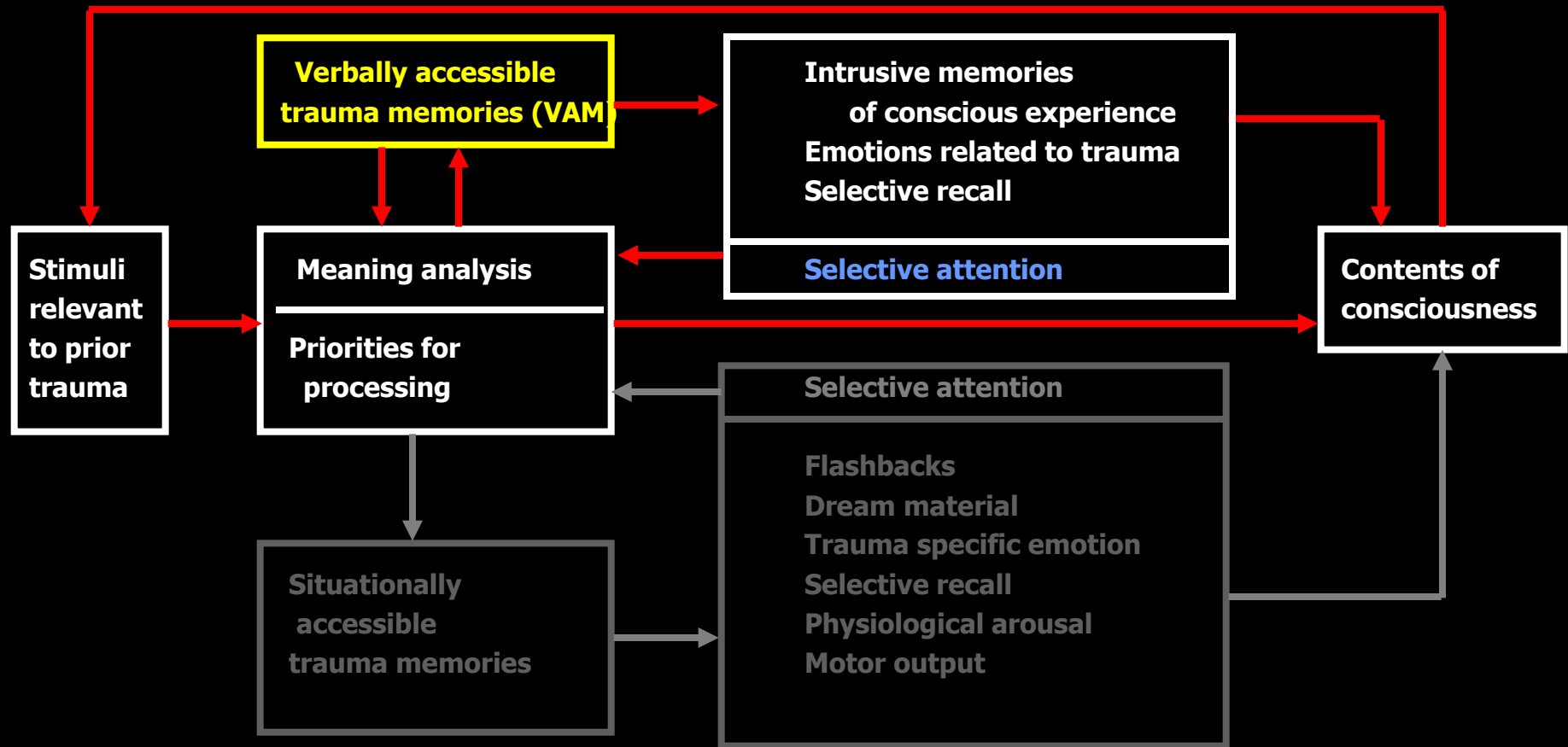
# ***Evidence base for Exposure***

- N.B.**, most research evidence supporting exposure in PTSD employs combination of IE and *in vivo* exposure
- No other treatment has such strong support
  - **Systematic reviews**
    - (Foa et al, 2000; Keane, 1998, Sherman, 1998, van Etten & Taylor, 1998)
  - **Research groups in**
    - America (Foa et al, 1991; 1999; Resick et al, 2002)
    - UK (Marks et al, 1998; Tarrier et al, 1999)
    - Australia (Bryant et al, 2003)
  - **Research on IE alone**
    - (Cloitre et al, 2002; Tarrier et al, 1999; Bryant et al, 2003)

# ***Rationale for Imaginal Exposure***

- Involves the patient being asked to **recount the TE in detail**
- To maximise efficacy of **IE**
  - need to maximise **stimulus cues** (e.g., sights, sound, smells)
  - and **response cues** (e.g., cognitions, affect, somatic sensations)

# Dual Representation Theory of Trauma Memory



*Brewin, Dalgleish & Joseph, 1996*

# ***Rationale for Imaginal Exposure***

## **Based on principles of**

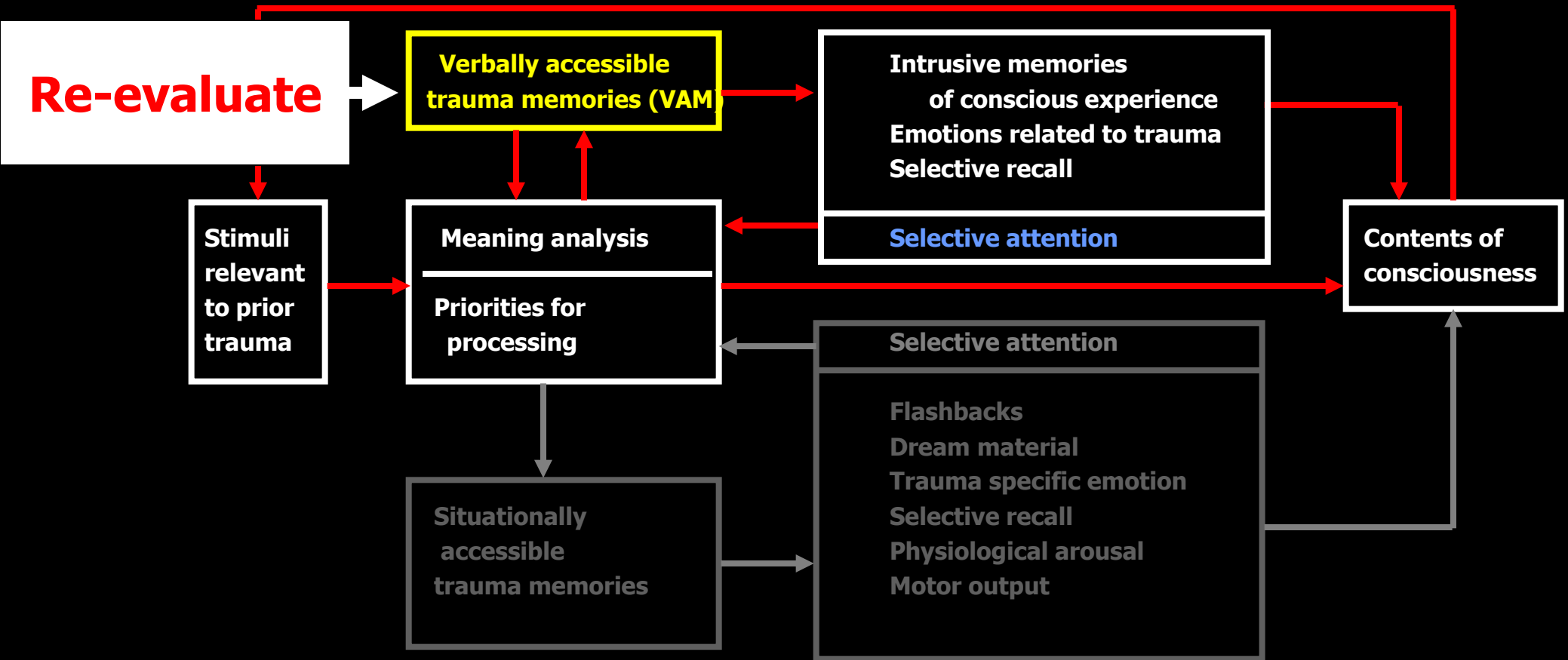
- **information processing**

- traumatic memory network is activated through exposure
- It is modified by re-evaluating old information (VAM)
- & incorporating new information (SAM)
- shows that thinking about the assault is not dangerous

- **habituation**

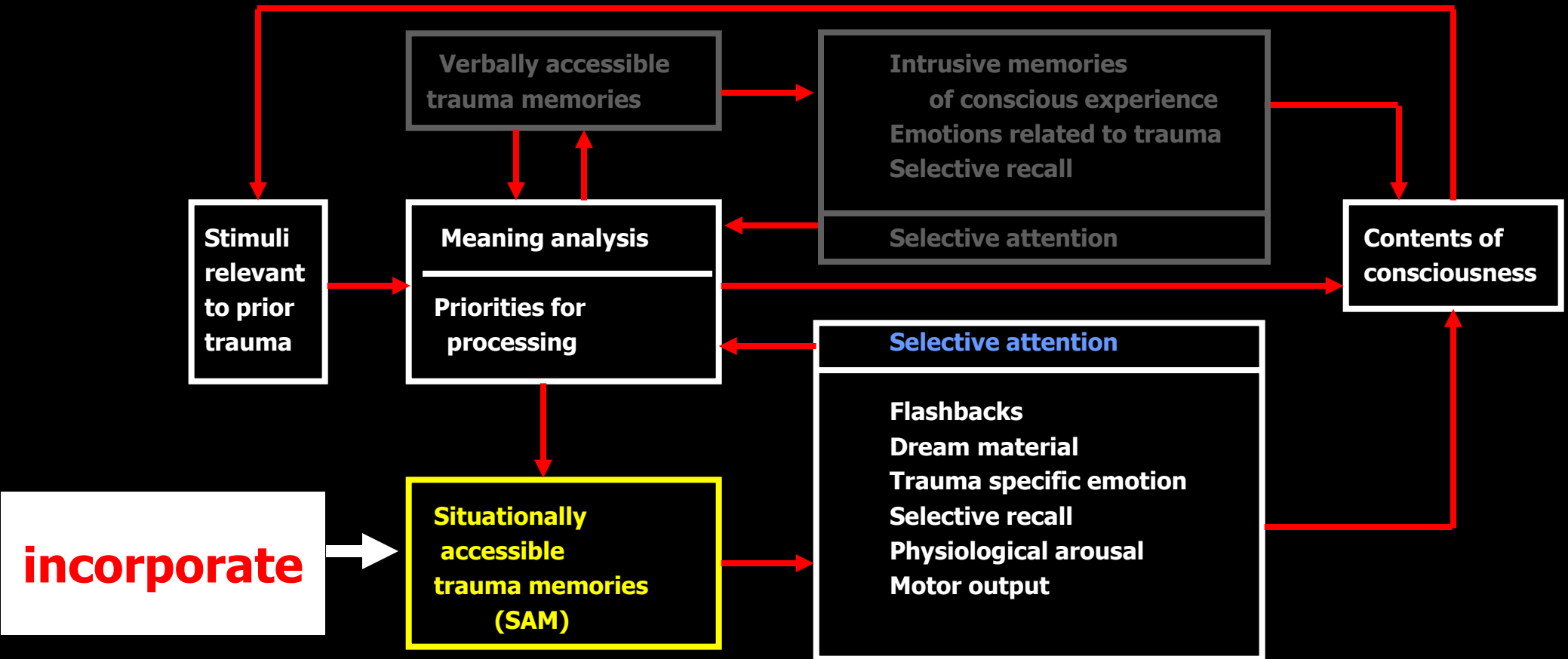
- Prolonged and repeated exposure lowers anxiety and disconfirms that anxiety will last forever

# Dual Representation Theory of Trauma Memory



*Brewin, Dalgleish & Joseph, 1996*

# Dual Representation Theory of Trauma Memory



*Brewin, Dalgleish & Joseph, 1996*

# ***Yet another paradox in PTSD***

## **Why does re-experiencing not lead to habituation?**

- Increased levels of arousal & distress
- Sufferer struggles to dismiss painful memories or images
- Terminates re-experiencing when anxiety still very high-
  - this can incubate the anxiety

# ***Rationale for Imaginal Exposure***

- discriminates between **remembering** and being **re-traumatised**
- **increased mastery**
  - enhances sense of self-control and competence
- **discrimination**
  - exposure will decrease the generalisation from **specific** to **similar but safe situations**
- intrusive, distressing traumatic memories are the **primary feared stimuli** in PTSD
  - can not be confronted *in vivo*

# ***Rules for Imaginal Exposure***

- IE should be **graded** – optimal SUDs = 70
  - Generate a hierarchy whether for single (less needed on occasions) or multiple traumas
- IE should be **prolonged**
- IE should be **repeated** (including as homework)
  - Usually 3-4 on same stimulus
- IE should be **functional**
  - meaning all aspects of trauma memory are accessed (especially accompanying affect)
  - a moderately high level of arousal will be needed
  - this is harder in IE than *in vivo*
  - may mean new material comes up

# *Overview of imaginal exposure (i)*

1. present the **rationale** for imaginal exposure
2. be alert to patient's anxiety - **provide reassurance**
3. explain that the session will be **audiotaped** for their use as homework (NB should note SUDs)
4. Sessions 1-2 ask patient to describe the trauma with **eyes open**
5. Sessions 1-2 ask patient to **recall the trauma** in the **past tense**
6. i.e., IE sessions 1 & 2 allow them to approach the memory gradually & determine the level of detail
7. Later sessions – **eyes closed** & recall the trauma in **present tense**

# *Overview of imaginal exposure (ii)*

8. in **IE session 3 onwards** ask probing questions regarding the emotional and physiological reactions
9. **every few minutes do a SUDs**
10. continue for **30-60mins**
  - terminate by asking them to open their eyes and take a breath and “let it go”
  - **allow time** after IE for patient to become calm
  - leave enough time for session

# ***Eye Movement Desensitisation & Reprocessing (EMDR)***

***.....for PTSD***

## ***EMDR: what is it?***

- a cognitive-behavioural technique
- it essentially combines elements of cognitive therapy with exposure
- But it is more than pure exposure
  - i.e., speed of change
  - dual-attentional focus

# ***Introduction***

- **“doses” of exposure**
- may be highly effective after only a few sessions
- large number of controlled studies supporting the use of EMDR in PTSD.

# ***What is EMDR & what is its theoretical basis ?***

- a **package** of therapeutic elements
- unclear whether eye movements are needed
- other forms of lateral stimulation, e.g. **finger taps**, may be equally effective
- **rapid left-right sensory stimulation** in some modality does seem to facilitate information processing

# ***Role of eye movements ?***

## **Possibilities .....**

- **distraction** from anxiety might produce change given right expectations
- **Exposure technique (s)**
  - research has not supported other distraction techniques as beneficial
  - **experience of EMDR** is not being distracted from it, experiencing it more

# *Shapiro's Accelerated Information Processing (AIP) model*

- traumatic experiences are held **dysfunctionally** in the nervous system where they are **blocked from being processed** due to the way in which traumatic experiences are encoded in the brain
- removing the blockage through EMDR results in **healthy adaptation**

# *Shapiro's Accelerated Information Processing (AIP) model*

- neurological model is a construct to help others to understand.
- uses neuro-physiological language but it is a **metaphor** which makes allusions to the physiological mechanisms in the brain

# *Components of EMDR*

## **Exposure**

- focus is on a picture epitomising the trauma
- emotions & physical sensations linked to the trauma are identified and rated
- subjective evaluation of physiological reactions (SUDS)
- information processing is facilitated in dosed, short exposures

# *Components of EMDR*

## **Cognitive restructuring**

- a negative cognition is elicited
- an alternative positive cognition is identified and rated for validity (VoC)
- Cognitive interweave during EMDR

# ***EMDR***

- if EMDR preferred by patients and clinicians then it is likely to be used more than IE
- Non-directive (patient in control and creating own healing atmosphere) *i.e., therapist stays out of the way.*
- EMDR as a process is both **experience** (i.e., non-reflective “doing”) and **reflection** (i.e., intending and reflecting upon the “doing”). This is done in small doses
- Emphasis on movement of information, *working on past, present & future*
  - *This is the standard EMDR protocol*

# ***EMDR***

- **Guilt** is prominent in PTSD - EMDR helpfully incorporates exposure and cognitive therapy elements
- “**unspeakable**” nature of some phases of PTSD suggests the use of **exposure** techniques such as EMDR
- importantly, the **reactivation of memory** does not require it to be put into communicable language

# *Summary (i)*

- a package of therapeutic elements
- unclear whether eye movements are needed
- other forms of lateral stimulation, e.g. finger taps, may be equally effective
- rapid left-right sensory stimulation in some modality does seem to facilitate information processing
- Cognitive components stressed as important (i.e., PC & NC, and cognitive interweave)
- Performed in the here and now using affect and sensations

## *Summary (ii)*

- EMDR is more than pure exposure.
- Gains in EMDR treatment are achieved more quickly than in controlled exposure studies
- Exposure in EMDR comes in short doses and includes a cognitive component not evident in flooding
- EMDR and traditional exposure therapies appear roughly equal in effectiveness

# **Summary of psychological treatments for PTSD**

# *Summary of psychological treatments (i)*

- well established treatments but no panacea
- Exposure, EMDR and CT are the central treatments
- problem based treatment better than concentrating on “core criteria”

# *Summary of psychological treatments (ii)*

- non-core symptoms may be significant source of distress
- specific protocols exist for particular symptoms
- guilt may be pervasive and chronic
- exposure programs can be limited by the realities of life
- combination therapies not yet shown to confer an advantage.
  - may be due to decreased time spent on each component

***and lest we forget.....***

## ***Impact of trauma care on staff***

- most will cope
- possible burnout
- senior staff are not impervious
- a balance between empathy and professional distance
- treating trauma survivors shows us resilience - "gifts" of viewing +ve adaptation for those in the trenches