Cessation of deliberate self harm following eye movement desensitisation and reprocessing: A case report

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Abstract

We present a case report of an eighteen year old female patient presenting with a psychological trauma related complaint. Part of the manifestation of the complaint included acts of self cutting over a number of years. Following two sessions of Eye Movement Desensitization & Reprocessing with one of the authors (DM) her self cutting ceased. This is maintained at thirteen months follow up. We conclude that Eye Movement Desensitization & Reprocessing may be an effective treatment option in reducing repeat self harm where traumatic events are noted to be the precursor to deliberate self harm.

Background

Deliberate Self-Harm (DSH) is a major public health issue across the developed world. It is suggested that 170000 presentations are made to Accident & Emergency Departments annually in the United Kingdom at an estimated economic cost over €40 million. This, coupled with the established relationship between DSH and completed suicide, has led to policy initiatives in the US, Canada and the devolved administrations in the UK seeking to address the topic [1-3].

Current literature on the effectiveness of interventions have a number of limitations. A recent systematic review of psychological and pharmacological interventions found major methodological limitations, primarily a small sample size and lack of adequate power to detect meaningful treatment effects [4].

It has been suggested that psychological trauma is a risk factor for engagement in DSH. This paper reports a case of an 18 year old female engaging in DSH referred for a psychological related trauma problem. She was treated using Eye Movement Desensitization and Reprocessing (EMDR).

EMDR is a non-pharmacological treatment for psychological trauma. Randomized controlled trials have shown its efficacy with a number of groups including a reduction of Post Traumatic Stress Disorder (PTSD) symptoms in war veterans[5], survivors of sexual abuse[6] and conduct disorders in young males[7] (further references are available at http://www.emdr-training.org). It has been recommended as an effective treatment for PTSD in adults by NICE (2005), as well as the Dept of Defense and Veterans Affairs in the USA.

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As with any psychological therapy, the exact mechanisms involved during EMDR are unknown. However, the Adaptive Information Processing Model [8] attempts to explain what has been observed clinically. It is thought that an original ‘traumatic’ incident becomes locked in the central nervous system in state-specific form, being held in a memory network. Such memories can have a lasting negative impact on a person’s life. In response to triggers in the present day, the traumatic memory is activated and the client re-experiences aspects of the original event. These can be visual, auditory, olfactory or somatic sensations, emotions, and/or negative self thoughts. The use of alternate (bilateral) stimulation of each brain hemisphere, whilst noticing aspects of the traumatic memory, appears to aid the brain to process the original incident, moving to adaptive resolution as with the physical healing process. Clients often report that the event is “in the past” and no longer disturbing to them.

Alternate or bilateral stimulation can be achieved a number of ways; for example by having the client follow the therapist’s finger with their eyes keeping their head still (hence the ‘eye movement’ in EMDR), alternate hand tapping, or alternate audio tones such as clicking or snapping fingers on each side of the client’s head so that auditory stimulation is through the left and right ears in turn.

The standard eight phase protocol for EMDR[8] (see Figure 1) was used in this case presentation. This incorporates a three-pronged protocol dealing with past, then present, then future; i.e. addressing the original incident, then current triggers that cause the maladaptive behaviour, and lastly installing a desirable response increasing self efficacy.

**Case presentation**

The patient, Natalie, is an eighteen year old single female.

Natalie self referred to a private mental health out-patient service specializing in the treatment of psychological trauma in January 2007. She reported labile mood that often resulted in a transient low mood accompanied by anger. During these transient periods Natalie would engage in DSH; typically cutting herself on her inner thighs.

Natalie reported that, on a descriptive scale of 0 – 10 (where 0 is no anger and 10 is intense anger) that she would cut her self when her anger level reached 8. She reported a number of triggers for her anger, but that these triggers would always relate in some way to events from her past that she remained very angry about. In essence, the presenting event combined with her past life events led to her anger rising to the point where she would cut to relieve herself of this distress.

During the initial assessment Natalie reported an uneventful childhood in relation to her emotional and physical health, her school life or family life. She is the eldest of three children and is currently studying at University.

In the fourth year of post-primary education, around the age of 14 years Natalie reports that her best friend "turned on her". This led to a prolonged period of bullying by this girl on Natalie. Subsequently, and as a direct result of this bullying, Natalie reports becoming depressed and starting to engage in cutting herself. She also reported one incident of tying a scarf around her neck.

Following this incident Natalie was referred to her General Practitioner who prescribed Amitryptaline and made arrangements for her to be seen by her local Child and Adolescent Mental Health Services (CAMHS).

She reports that the input from the CAMHS service was initially beneficial and that their input coupled with the antidepressant medication resulted in an improvement in her mood and a cessation of self cutting.

Aged 16 years, Natalie embarked upon a relationship for two years that, on reflection, she now reports was "unhealthy". She states for example, that her alcohol consumption was a times around 80 units per week. This relationship was also characterized by humiliation and bullying of Natalie. She ended the relationship when she was 18 years of age.

Also, at age 18 years Natalie was discharged from the CAMHS services and no further referral to adult services were made. Natalie stopped taking her medication and started to resume cutting herself as a reaction to the bullying she had experienced during her adolescent years.

**Intervention**

Natalie was seen a total of seven times over a five month period in early 2007 by one of the authors (DM). During the initial interview, a full bio-psycho-social assessment was undertaken during which trigger factors for her self harming and the impact of the bullying were explored. The second, third and fourth meetings explored in further depth the triggering factors for the self harming behaviour.

The standard protocol for EMDR [8] was then started, from the fifth meeting onward, initially with safe place development. The ‘anchoring’ of the safe place and the bilateral simulation were achieved by using alternate finger clicks. A ‘safe place’ is an imaginary place the client can go to activate the parasympathetic nervous system, either following treatment, between sessions or during EMDR ses-
sions when they need time-out due to exhaustion or personal choice.

During the sixth session Natalie was asked to identify an event from her past that still caused her anger. Rated on a scale of 0 – 10 Subjective Units of Distress (SUDs) (where 10 is the worst), she gave this incident a score of 6/10. Natalie was then asked to state positively how she would like to feel or recall this event. Such positive cognitions can include statements such as "I am safe", "I am a good person" and "I can trust my judgment". She rated her positive cognition on the incident as 0/7 (where 0 is com-

| Box 1-Standard eight stage EMDR protocol with short outline of each stage |
|---------------------------------------------------------------|
| 1. Taking of client history | This encompasses a full biopsychosocial assessment in addition to an assessment of the presenting problem, focusing on the past and presenting triggers as well as the resources the client needs to deal with stresses in the future. |
| 2. Preparation | This phase involves developing a therapeutic and trusting relationship between the client and clinician. Also included here are an explanation of EMDR and ‘safe place’ development work. |
| 3. Assessment | This focuses on the assessment of each specific traumatic incident. Initially, having a visual representation of the incident the client is asked to verbalize a negative belief about themselves “What words go with that picture that express your negative belief about yourself now?”. They are then asked for a positive belief that they would like to believe about themselves now. This positive belief is then quantified on a scale of 1-7 where 1 = completely false (this is known as the VoC). This is followed by the naming the emotion(s) associated with the incident eg, fear, anger. The client is then asked to recall the event, the negative cognition and the emotion and is asked to quantify the disturbance on a scale of 0-10 where 10 is the worst (this is known as the SUDs). Finally, the clients are asked to scan their body for the location of any sensations. |
| 4. Desensitization | This is the phase of the treatment in which bilateral stimulation takes place focusing on the distress experienced by the client. |
| 5. Installation | Having successfully completed the desensitization, the therapist then moves onto installing the positive cognition of the event. Bilateral stimulation strengthens the positive cognition which provides template for future similar events. |
| 6. Body Scan | With the positive cognitions scoring 6 or 7 out of 7 the clinician then asks the patient scan their entire body for any sensations. Positive or comfortable sensations are strengthened using bilateral stimulation. Negative or uncomfortable sensations the session returns to the desensitization stage. |
| 7. Closure | Involves an explanation of the session that has just been completed along with guidance on dealing with unpleasant or strange feelings that may occur before the next session. Clients are encouraged to keep a journal or log of events including what they were seeing, thinking, feeling just prior to the experience. |
| 8. Re-evaluation | At the beginning of the following session the clinician re-assesses the previous sessions work prior to moving onto a new event or incident. |

**Figure 1**
EMDR protocol.
Patients perspective
Natalie was offered the opportunity to contribute to the paper from her perspective. She declined the offer, however in a separate e-mail to one the authors she thanked him and stated:

"[I] never thought I would ever reach the stage of being completely happy with myself! Took some work, but got there in the end”.

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