Drumming as a Somatic Therapy

Drumming as a tool in therapeutic practice is getting increasing attention as the body of research supporting its positive impact mounts. There are now over 20 peer reviewed studies bearing witness to the power of this medium to positively impact people’s lives\(^1\). This contemporary use of rhythmic music, and drumming in particular, in our healing practices extends an unbroken line of knowledge dating back to our earliest human communities.

At the same time there has been a growing interest in the somatic or body orientated, therapies, particularly in relation to the treatment of trauma. This has coincided with an increasing awareness of the limitations of cognitive or ‘talk based’ approaches. Advances in neuroscience have shown that the language processing regions of the brain, Broca’s area, shut down in response to severe trauma, often making these traditional therapeutic approaches unworkable\(^2\). Additionally, there is significant danger in re-traumatisation when people are pushed too early into discussing the circumstances and emotions of the traumatic event itself\(^3\).

There are a range of different approaches to working with the body including somatic psychotherapy, somatic psychology, sensorimotor psychotherapy (Pat Ogden) and somatic experiencing (Peter Levine). All of these share an understanding that our emotional responses to trauma and other experiences, such as our common fears and anxieties, play out through the body as well as the mind, and in fact, that there is a self-perpetuating link between the two\(^4\). The modern lexicon is full of phrases that speak to this link—‘gut wrenching’, ‘twisted up inside’ ‘my stomach dropped’ etc. Research has shown a clear link between trauma and a wide range of physical symptoms, including gut complaints like irritable bowel syndrome, and other issues such as chronic fatigue, and fibromyalgia\(^5\).

Our bodies hold on to past traumas which are reflected in our body language, posture and expressions. We brace for threat, constricting our bodies and sending signals to the brain that the threat persists. These uncomfortable, visceral feelings are relayed back to the brain via the vagus nerve and are party to a chain of reaction that leads both regions to become over-reactive to each other and in a state of constant arousal. In order to cope, many people shut down those areas of the brain that transmit these bodily feelings, repressing them and consequently ensuring they remain trapped within, long past their use-by date\(^6\). This form of denial prevents us from healing.

This bidirectional communication between the brain and the gastrointestinal tract, the so-called “brain–gut axis,” is based on a complex system, with the vagus nerve at its centre. The vagus nerve carries an extensive range of signals from digestive system and organs to the brain and vice versa. It is responsible for the regulation of internal organ functions, such as digestion, heart rate, and respiratory rate. It is also responsible for monitoring physiological homeostasis and connecting the emotional and cognitive areas of the brain with peripheral functions, such as immune activation\(^7\). Many mental health conditions are characterised by

\(^1\) Rhythm Research & Resources [https://www.rhythmresearchresources.net/]
underlying inflammatory immune responses and recent studies of drumming therapies with people suffering from depression and other mental health conditions have shown significant reductions in these immune response activation markers.8

Somatic therapies facilitate the resolution of trauma and its associated physical and psychological markers by increasing our awareness and acceptance of our bodily responses and finding ways to discharge the tension held within. The use of the drum can serve the practitioner in multiple ways in working through these elements with the client. Specifically, the drum provides a vehicle for the release of trapped feelings. Where a cognitive therapist may ask “How did that feel?” and potentially elicit no response or one that is open to interpretation. An experiential practitioner can use the drum – “Would you like to play how that felt”. The drum provides a far greater freedom, and a much safer alternative to the narrow range we have for describing these complex sensations through language.

The drum is a powerful grounding tool with the resonance activated by the player seeping from the drum, through the body and connecting and aligning to the rhythms of the natural world. Both mindfulness and grounding exercises can be given additional efficacy through the use of the drum, usually played at a tempo that replicates the mothers heart-beat at rest; 60-80 beats per minute. This tempo is associated with the calm and security that accompanies our time in the womb and is also believed to be the primary stimuli under which the areas of the brain responsible for our stress response are formed. As trauma researcher Dr Bruce Perry states:

‘One of the most powerful sets of associations created in utero is the association between patterned repetitive rhythmic activity from maternal heart rate, and all the neural patterns of activity associated with not being hungry, not been thirsty, and feeling ‘safe’ (in the womb)’.9

‘Patterned, repetitive, rhythmic somatosensory activity… elicits a sensation of safety. Rhythm is regulating. All cultures have some form of patterned, repetitive rhythmic activity as part of their healing and mourning rituals — dancing, drumming, and swaying’.9

As Dr Perry states, these are not new techniques but date from our earliest healing practices and are found across all cultures. Traditions of chanting in Buddhist and Christian religions utilise a similar principle. Lower frequency vibrations, resonate through the body, particularly in the lower stomach and diaphragm region, and have been found to have a direct effect on the parasympathetic nervous system; slowing breathing and activating the vagus nerve.10 Lower frequency rhythms, played on the Bass note of the drum, are known to resonate with the body’s own physiology, and positively impact primal functions such as heart rate, respiratory rate and blood pressure. One recent study addressing children with habitual states of fear showed that rhythm interventions, at 60-beats per minute (bpm), can regulate and induce systemic pacing, reduce repetitive anxiety behaviours and enable focus and calm.11

Somatic therapies and drumming sit side by side as evidence-based approaches to supporting people through the release of trauma held in the body. And in particular, offer an alternative medium to some of the more hazardous treatment regimes. Our biological responses need to remain fluid and these therapies assist us in loosening the rigidity of those maladaptive responses that continue to allow the trauma and pain to dominate people’s lives.

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