'Master My Demons': art therapy montage paintings by active-duty military service members with traumatic brain injury and post-traumatic stress

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ABSTRACT
This study involved a thematic analysis of montage paintings and related clinical records of 240 active-duty military service members collected during their art therapy treatment for traumatic brain injury and underlying psychological health concerns, including post-traumatic stress, at the National Intrepid Center of Excellence (NICE) and the Walter Reed National Military Medical Center, Bethesda, Maryland, USA. In line with other research findings, the qualitative analyses of this study suggest that the group art therapy experiences fostered improvement in interpersonal relatedness, hopefulness and gratification for the service members in treatment, aiding in personalisation, progressive exposure and construction of a trauma narrative imperative for recovery. The mixed media nature of the montage paintings supported the expression of a range of postcombat symptoms. Results from this study highlighted the complexity of military culture, necessitating a broader scope of analyses for how art therapy helps service members express and communicate their challenges to care providers, peers and family as well as regulate emotion in the short and long term.

INTRODUCTION
More than 2.6 million US military service members have been deployed since 2001 in our post 9/11 world.1 Unlike other military service periods in history, recent conflicts have led the military to participate in multiple deployments that are often long and that severely restrict the time at home between deployments, thereby adding significant stress to their situations.2 3 Additionally, the newly adaptive body armour developed to protect them against explosive devices in combat has enabled service members to endure greater risk and thereby increased the number of service members returning home with ‘polytrauma’.4 Polytrauma has been defined as the impact of multiple injuries that may be life-threatening and result in impairments in cognitive, psychological, psychosocial and physical functioning.4–6 Consequently, 375 230 military service members have been diagnosed as having suffered a traumatic brain injury (TBI) since 2000.7 Further, in a survey administered by the Veterans Administration from 2006 to 2010, an estimated 480 748 service members were found to be struggling with post-traumatic stress disorder (PTSD).8 The number of veterans who received mental healthcare increased from 4% in 2006 to 12% in 2010.1 However, many veterans suffering with mental health issues do not seek help and others diminish the severity of their issues.8 Verbally expressing symptoms is a challenging limitation for those who have been traumatised.9 10 As an alternative intervention, the visual expression afforded by art therapy is increasingly gaining acceptance as a treatment for service members with PTSD and TBI.11–14

ART THERAPY FOR MILITARY SERVICE MEMBERS WITH TBI AND PTSD
Art therapy relies on art making and creative processes within a psychotherapeutic relationship to improve or restore functioning and/or a sense of well-being.15 The need for self-expression by service members has been identified as important for recovery and reintegration into civilian and family life.16 17 Art therapy addresses the effects of deployment and combat as well as the emotional impact associated with TBI, PTSD and/or comorbid psychological disorders sustained as a result of being a witness, victim or agent of combat or related events.11 13 14 17 18

Within integrative military medical care settings, art therapy has gained recognition as a form of complementary care.21 22 23 Art therapy provides visual expression for the unspeakable symptoms caused by combat engagement.11 14 17 As an overwhelming psychic experience, trauma can often be somatically stored.10 20 Symptoms such as expressive and emotional numbing, along with other ailments, are ameliorated through the art therapy processes, which form images for the internal wounds of combat.14 17 21 For trauma survivors, the retelling and reformulation of the terrifying memories through pictorial, non-verbal iteration can generally be less threatening than verbal disclosure because much is mitigated through the visual symbolism.22–24

Current research has identified therapeutic elements implicit in art therapy that could address symptoms of combat-related post-traumatic stress (PTS): (1) progressive exposure, (2) externalisation for processing, (3) reactivation of pleasure, (4) promotion of self-efficacy through mastery and (5) formulation of a reconsolidated narrative.12 22 23–25 Gantt and Tinnin26 recommended that art therapists develop approaches for trauma recovery that integrate fragmented traumatic experiences into a coherent narrative and reduce dissociation by externalising the dialogue between verbal and non-verbal states. The goal is to remember rather...
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than relive the experiences of terror. The emotional burden of the trauma often destabilizes the survivor, creating hopelessness and helplessness, leading to what van der Kolk terms ‘speechless terror’. For trauma survivors, there is often a suppression of emotional expression and an inability to master cognitive awareness and engage in verbal processing.

The internal anguish that underlies memory and emotion may be uncovered and managed through art making, which provides opportunities for mastery and control not otherwise available in more traditional modes of therapeutic intervention. Emotional distance can be gained when the art processes summon the assertion of power and mastery by externalizing those fragmented somatic and conscious memories. Because art making is an iterative process to reformulate new narratives through the doing/undoing process, newer integrations of memories are rehearsed at one’s own pace and break rigid thought patterns. This process is especially helpful because TBI and PTSD symptoms can impair cognitive processing for injured service members.

Because art making is often a gratifying, emotionally rewarding experience, survivors will often experience a reactivation of pleasure in art therapy. Enhanced self-efficacy has long been linked to motivation-seeking behaviours. Collage is one method of art making that has been found to reduce stress and decreases anxiety. The juxtaposition of disconnected visual forms brings new meanings and awareness in this new configuration that joins text to image. This multilayered process, when combined with painting, was described as ‘montage painting’ close to 50 years ago by Andre Verlon during another period of international military conflict. Verlon advocated for this innovative approach to art making as a social response of the time. My intention is not only to bring out the quintessence of the polarity of the problems of modern reality: construction-destruction, security-fear, civilization-barbarity, man-machine, movement-blockage, etc.; but also to probe the fundamental interplay beneath the conflicting forces of technology, profit, fear, violence and man’s hope for a better world. (p. 383)

Clinical observations indicate that group art therapy is highly effective with service members because it allows the strengths of the community-based military culture to benefit the individual participant. It is the strength of the unit’s cohesion that shields the adversity of combat, the development of PTSD and possibly suicidality. Herman notes, Those who have survived learn that their sense of self, of worth, of humanity, depends upon a feeling of connection to others. The solidarity of a group provides the strongest protection against terror and despair, and the strongest antidote to the traumatic experience. Trauma isolates; the group re-creates a sense of belonging. Trauma shames and stigmatizes; the group bears witness and affirms. Trauma degrades the victim; the group exalts her. Trauma dehumanizes the victim, the group restores her humanity. (p. 214)

At the National Intrepid Center of Excellence (NICoE) Intensive Outpatient Program at the Walter Reed National Military Medical Center in Bethesda, Maryland, USA, art therapy has been effective in the rehabilitation of injured service members coping with comorbid TBI and psychological health conditions.

Setting

Art therapy in the integrative setting of NICoE effectively ameliorated symptoms for injured service members managing TBI and co-occurring mood disorders since 2010. This intensive outpatient programme is an integrative care model with an outlined treatment protocol over the course of 4 weeks. In art therapy, service members are assessed in both group and individual sessions. In the first week of treatment, service members create three-dimensional masks in group art therapy sessions. Mask making in art therapy has become an integral part of the treatment at NICoE. Even before the first art therapy session is held, the visible displays of the masks proudly exhibited in public areas coupled with the extensive media coverage of these works have implicitly built trust in the art-making process. The masks aid the processing of traumatic memories related to TBI and combat through a more symbolic externalised representation. In the group context, the masks help to organise overwhelming responses to combat injuries, channelling verbalisations that had been internally silenced. Service members often continue working on their masks while they receive other integrative services such as music therapy, animal-assisted therapy, medical and nursing care, physical therapy, family therapy and individual counselling.

In week 4, the final week of treatment, service members are prompted to create montage paintings. This directive, designed by Walker, merges past and present experiences as a multilayered, multimedia art form. Presented with an 8’×10’ canvas, service members are invited as follows:

Some people choose to just paint and then they might use collage to embellish certain things, or they may collage and then paint to embellish certain things or they may go back and forth. You can document or process something from the past, or focus on where you are currently, or on hopes, goals, or concerns for the future. There are two different ways to approach this, you can either have an idea in your mind of exactly what you want it to look like and you can spend the session actualizing that image, or you can have no idea of what you want it to look like, no idea what you want it to be about and just spend some time going through magazines, cutting out any words or images that resonate with you for whatever reason. It can be a really insightful process to then organize what you’ve collected on to your canvas. (p. 3)

Service members are able to choose from a generous array of art materials including paints, printed images and clay.

Analyses of the montage paintings created by service members are described in this paper. The study design was a qualitative thematic analysis of images created in the montage paintings and the descriptions provided by participants.

METHODS

Study participants

Demographic data were available for 208 out of 240 study participants. Service members from all branches of the Armed Services were included in this study. These participants were managing comorbid symptoms of combat-related TBI and psychological health conditions. Participants (n=208) ranged in age from 21 to 59 years (mean=35.75, SD=7.43) and predominantly identified as men (97.1%, n=202). The racial and ethnic distribution was as follows: White, 88.5%; Hispanic, 5.8%; Black, 2.9% and Asian/Pacific Islander, 2.9%. Although service members were affiliated with all five branches of military service, the Navy was the most represented (44.7%, n=93). The majority of service members were enlisted (83.2%). The remaining participants were officers, many of whom were special operations. The time of service ranged from 1.5 to 33 years (mean=14.68, SD=7.11).
Data sources
Data sources for the study included (1) photographs of montage painting artwork created by service members and (2) documented clinical notes. Data collected from the mask analyses were also used for comparison. Participants’ verbal descriptions of the symbolism embedded in the artwork and their resulting experiences were captured in clinical notes. These notes, about 50–100 words, and photographs of the artwork were uploaded as part of electronic medical record documentation into a common military patient charting and medical information database. Additional demographic information was also available on participants’ age, gender and military rank. More than 800 paintings have been made over the past 6 years. Data including consent for analysis, photographs of the montage paintings and concurrent notes were available for 240 participants. Demographic information was available for 208 participants.

Data analysis
An iterative process informed by thematic analysis was used to analyse the data. Photographs of the montage paintings were first extracted from the data files and reviewed collectively to identify visual themes for open coding. These themes were compared with the data set collected from the masks. Pictorial and symbolic representations, as well as visual elements such as colour, media and composition, were noted. The list of codes was reviewed for consensus and cross-referenced with the study sample for axial coding. An exhaustive total of 174 codes were ultimately generated to capture the frequencies of observations such as verbal descriptions of memories of deployment or the artistic choice to use text in the montage paintings. Clinical notes from the group art therapy sessions and the culminating artwork were coded qualitatively through a Web application for mixed methods research. Another coder reviewed the data set, and each coding discrepancy was discussed to achieve consensus. Verbal, behavioural and visual elements of the clinical encounter were comprehensively examined. These findings were then compared with the results analysed for the data set of the masks. Because the same codes were used, comparisons could be drawn from the two time points: week 1 (masks) and week 4 (montage paintings). The changes in frequencies noted between these two data sets are substantial and identify areas for future examination.

RESULTS
The data analysed included clinical documentation and artwork of injured service members (n=240) who participated in group art therapy. Code occurrences were computed for frequency. Table 1 shows the codes yielding the highest frequencies in the data analyses.

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| Art-making experience: Pleasure, socialisation and openness elicited |
| Data collected from the montage paintings indicated that group art therapy was beneficial. Participants specifically commented about their enjoyment (41.3%, n=99), were able to share artwork with peers and clinicians (30.4%, n=73) and voiced concerns and feelings about experiences related to their injuries (35.4%, n=85). |

Artwork: Use of text
Almost half of the works (43.8%) used preprinted or originally formed text in the compositions of the montage paintings. These words were mostly cut out of magazines; a few were written in with paint. Text included phrases or words exemplifying the service members’ thoughts including famous quotes or fragments from songs and poems. This reliance on text suggests a greater need for mastery of the expressed content. Whereas some theorists see the use of words in expression as a form of intellectualisation, it is also regarded as an adaptive defence to manage the intensity of what is being processed. The transition from non-verbal to verbal processing through artistic processes, a notable observation from other research, is also evident in this study. Additionally, the use of words relates to cognitive rather than visceral reactions, which allows for emotional distancing and mastery. The use of text in the montage paintings is exemplified in figure 1A,B. In figure 1A, preprinted text is adhered to a painted background. Selected text includes ‘BOOM’, ‘Finding My Place’, ‘The Eyes Say It All’, ‘Return to Reality’ and ‘What about the survivors?’ Figure 1B depicts the painted words ‘Putting pen to paper to write something profound is simpler than putting bullets to flesh’. The inclusion of either preprinted text or text inscribed by hand was coded independently. Although the processes and resulting montage paintings vary, each expresses personal postcombat reflections.

Artwork: Nature as metaphor
The use of metaphor is widely used in creative arts therapies as a change agent to challenge former thinking and birth new opportunities. Nature was the most frequent metaphor depicted in the montage paintings (35%, n=84). Service members seemingly related to nature as a safe realm for expressing conflicted material. Nature, often symbolic of dynamism, served to showcase the themes of aggressor/victim, fragility/grandeur, unpredictability and stability. Attempting to mitigate these dualities, service members examined their own internal conflicts through the nature-inspired art they

Table 1 Notable occurrences in montage data set thematic analyses

<table>
<thead>
<tr>
<th>Code</th>
<th>Number of occurrences</th>
<th>Percentage of total data set</th>
<th>Number of occurrences</th>
<th>Percentage of total data set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art-making experience</td>
<td>Enjoyable experience/Surprisingly enjoyable</td>
<td>124</td>
<td>30.8%</td>
<td>99</td>
</tr>
<tr>
<td>Sharing artwork with clinicians/peers</td>
<td>33</td>
<td>8.2%</td>
<td>73</td>
<td>30.4%</td>
</tr>
<tr>
<td>Engaged socially/sharing concerns</td>
<td>38</td>
<td>9.5%</td>
<td>85</td>
<td>35.4%</td>
</tr>
<tr>
<td>Themes represented in the artwork</td>
<td>Words/text</td>
<td>58</td>
<td>14.4%</td>
<td>105</td>
</tr>
<tr>
<td>Expression of nature metaphors</td>
<td>33</td>
<td>8.2%</td>
<td>84</td>
<td>35.0%</td>
</tr>
<tr>
<td>Artwork as a life story</td>
<td>48</td>
<td>11.9%</td>
<td>69</td>
<td>28.8%</td>
</tr>
<tr>
<td>Memories of deployment</td>
<td>33</td>
<td>8.2%</td>
<td>52</td>
<td>21.7%</td>
</tr>
<tr>
<td>References to serenity/interests/strengths/hobbies/nature</td>
<td>12</td>
<td>3%</td>
<td>42</td>
<td>17.5%</td>
</tr>
</tbody>
</table>
created. Internal struggles were projected onto the more universal, external environment. Figure 1C,D reflects the montage paintings thematically coded for use of nature as a metaphor. In figure 1C, an isolated volcano spews matter off the boundary of the canvas while preprinted text, ‘Master Your Demons’ is anchored at the bottom. In figure 1D, an open-mouthed shark lurks in the water with other fish. The inclusion of the word ‘Bait’ speaks to the vulnerability of this predatory encounter.

Artwork: Life story

Early attempts to integrate the combat trauma into a more holistic biographical narrative in recovery are evident in figure 2A,B. The externalisation of autobiographical details aids memory processing by formulating a reconsolidation of memories through a newly constructed narrative. The composition is visually divided in figure 2A because there is a clear delineation between combat and postcombat life. A flaming ‘TBI’ lurks in the distance amid the headstones of those who were killed in combat. The short, coloured lines show the meticulous efforts taken to include the details in a methodical manner. With the American flag centred on the page, each side of the barracks suggests divergent scenes. In figure 2B, the montage painting reflects the service member seeking salvation, as he inscribed ‘God Deliver Me From Evil’. He regretted the burden his military experiences had perceivably imposed on his family. The execution of the paint material appears less controlled in this image and the brown colour both camouflages and conceals the words. Red colour is used for the word ‘Evil’ which is also splattered cross the stick figures above the word ‘Family.’

Memories of deployment

In comparison to the mask data, there was a 13.5% increase in service members’ expression of deployment memories, rising from 8.2% in week 1% to 21.7% in week 4. After 4 weeks of treatment, safety established through trust in the treatment seemingly encouraged more difficult memories to be more readily activated. Progressive exposure to combat memories aids trauma recovery and aligns with previously accounted research findings. Figure 2C is a montage painting coded for memories of deployment. Covered first in camouflaged fabric, the montage painting included images of badges, weapons and service members in combat. Images of the service member’s own military division are also included. His verbalisations during the group process described his yearning to return to combat. The montage serves as a non-linear way to capture the combat experiences concretely for integration into the personal narrative. Service members were able to ‘remember’ without ‘reliving’ the experience.

Artwork: References to serenity/interests

Future goals were also described in the montage paintings. Service members relied on self-efficacy to outline personal goals post discharge. These images were largely hopeful and relate to the reactivation of positive emotion noted in existing research. Figure 3A,B shows examples of montage paintings coded for references to serenity and interests. Figure 3A reflects a barren mountain of solitude described as ‘My Happy Place’ from individually cut letters. Figure 3B depicts a human form in water. The service member explained the yellow and red
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Figure 2  (A) Artwork exemplifies the service member’s life story. The service member described that he wished to depict ‘being in the trenches’ (describing his deployment and injury), then the challenge of climbing out (reflecting his treatment at the National Intrepid Center of Excellence) to a brighter, better place. The service member reflected that one day life will end; he depicted this with a bright light and two shadows overlooking the fallen. (B) While struggling with head pain, the service member shared this work, explaining it represents how he has ‘tainted’ his family due to everything he has been through in the military. He shared his hopes, ‘God deliver me from evil’. (C) The service member covered his canvas board in camouflage printed cloth. He printed and glued pictures related to his military career while sharing his desires to return to combat. He listened to his peers who suggested he has accomplished much in his life and will have the opportunity to accomplish more outside of the military.

paint strokes to be ‘thoughts seeping in’ from floating in warm water. While both images were described as serene associations, each holds a sense of isolation.

Hopefulness was also improved (11.1%) over the course of 4 weeks in the data samples. Figure 3C,D is representative of montage paintings coded for hopefulness. Clinical notes describe, ‘Pt stated the footprints represent where it all started, as well as the next steps he will need to take in his life (retirement)’. The footprints relate to the yellow painted footprints recruits stand on their first entry, symbolic of the structure established to stand in formation and recount all those who have served in the past. The drill instructor ritualistically recites, ‘you have just taken the first step toward becoming a member of the world's finest fighting force, the United States Marine Corps’. This service member opted to include photographs with quotes in the back of his canvas frame to aid him in his transition to civilian life. The two quotes read, ‘A journey of a thousand miles begins with a single step’ and ‘When I let go of what I am, I become what I might be’.

Figure 3E is also a montage painting coded for increased hopefulness. The service member used cork to cover the surface. Tasks are outlined on adhesive notes under the title ‘Things To Do’. Selected notes read: ‘Find God or religion or at least give it a try?’, ‘Talk the wife into not leaving’, ‘Be more friendly to people’, ‘Stop swearing at the kids, at the dog, at the neighbor, at myself’, ‘mow the lawn’, ‘drink less’ and ‘Go to the dinner party and act like you are having fun’. Evidence of self-efficacy as described in other research can be seen in this task-oriented, organised montage painting that outlined both short term and long-term personal goals.

Other notable changes

The montage painting data set from week 4 was compared with that from the masks created during week 1. Other notable differential changes between the masks and montage paintings are as follows: (1) increased self-awareness and socialisation (26.9%), (2) increased patriotism (11.8%), (3) increased pleasure from art making (10.5%), (4) greater awareness of psychological distress (5.3%) and (5) decreased reporting of depression and anxiety (4.3%).

Figure 4A,B shows montage paintings coded for increased self-awareness. In figure 4A, a service member depicts his experience of PTSD as being non-human, pictorially illustrated as ‘The Hulk’ character. The preprinted words ‘getting to know you’ align with his verbal statements about trying to connect with the ‘who’ he is inside. The centralised text, ‘Can you honor the power inside you’ parallels the intentional efforts to fit the images together tightly in a puzzle-like composition so each is visually held by the other. Figure 4B incorporates a three-dimensional switch in its visually divided composition. The service member depicted his two (although unequally divided) sides: a fiery, aggressive facet labelled as a ‘monster’ and a more compliant side, embellished with packaged sweetener flanked by...
words ‘refreshing’ and ‘relief’. Patriotism, commitment to service and courage are evident in figure 4C. The montage includes two popular mottos in military culture, ‘People sleep peacefully in their beds at night knowing that rough men stand ready to do violence on their behalf’ and ‘May the skulls of my enemies be piled as trophies at my feet’.

**DISCUSSION**

We conducted a qualitative analysis of montage paintings (n=240) made by active-duty military service members with traumatic brain injuries and related psychological health conditions. The findings of this study are congruent with results from recent art therapy research that has presented therapeutic elements beneficial for service members: (1) progressive exposure, (2) externalisation for processing, (3) reactivation of pleasure, (4) promotion of self-efficacy and (5) formulation of a reconsolidated narrative.12 22 25-28 The montage paintings created by the service members reflected relevant themes described literally through the use of text and/or pictorially through the use of visual metaphors.

Service members at the NICoE have used art therapy in an integrative setting to manage symptoms of TBI and underlying psychological health conditions. Group art therapy was found to be a positive experience for participants in this study. The
data sample indicated that 41.3% of participants spontaneously and specifically described the art making experience to be enjoyable; 30.4% were able to share their artwork with clinicians and 35.4% engaged socially in the group, sharing concerns. Significant changes to identities are experienced as service members shift from active to non-active military service. In group art therapy, anxieties can be effectively contained in the group, with the therapist and through the created art product. Simply being present with others who hold similar experiences reduces isolation and forges connection. The gratification gained by the service members from the art therapy experience resulted in increased pleasure, increased socialisation and greater openness about the recovery processes.

Derealising combat injuries and the accompanying psychological anguish disrupt the strong sense of identity held by service members and strip them of their abilities to actively participate in the experiences that had once held them safe in solidarity. Group treatment with service members can reveal vulnerability and psychological fragility that are foreign and contradictory to the solidarity and leadership of the collectivist military culture.

The montage painting, created at the week 4 time point, is sequential to the mask created during week 1 of treatment at the NICoE. The montage painting, an assemblage of preprinted images, text and more traditional art materials, enables progressive exposure and externalisation for processing. The 8′×10′ canvas provides a sturdy surface on which to integrate the more fragmented aspects of self, treatment and future as a civilian. Because it is a small composition, the service members gain a sense of mastery to select the most pertinent aspects of their recovery process. Service members choose whether to work abstractly or figuratively. Some use personal images and writing. The process promotes self-efficacy.

A central tenet of art therapy theory postulates that all artists, regardless of skill level, project underlying conflicts in art making. The rich content of the montage paintings reflects the complex recovery experiences of service members. The most frequent codes were the use of nature metaphors (35%), reflection of a life story (28.8%), memories of deployment (21.7%) and references to serenity (17.5%). Findings also note increases in the context of a 4 week intensive outpatient integrative medical care programme facilitated in the safety of group setting by a Masters level art psychotherapist. As such, art making that invites exploration of challenging clinical symptoms cannot be replicated in other contexts that do not provide these structures of psychological and physical safety.

There are, however, several areas for further study. Art therapists might collaborate with colleagues in humanities, medical and social sciences to further examine how art therapy helps service members express and communicate their challenges to care providers, peers and family as well as regulate emotion in the short and long term. Further study might also examine if certain types of imagery relate to specific clinical trajectories of recovery as well as if specific types of injuries might be particularly sensitive to creative arts therapies interventions.

CONCLUSION
The montage paintings serve as visual reflections of the military service members’ experiences of TBI and underlying psychological health conditions, and the integrative treatment received at the NICoE medical centre. The paintings helped service members consolidate their experiences into one image and also served as a reminder that treatment for the symptoms is complex and multifaceted. To the best of our knowledge, this is the first article to highlight how paintings created through art therapy support the mental health needs of service members, but further research is needed to better understand how visual self-expression helps with short-term and long-term outcomes. Imagery provides a rich arena for clinicians to engage patients in describing physical and psychological symptoms related to military experiences. Healthcare providers, clinicians and practitioners working with injured service members could benefit from collaborating with art therapists to provide integrative care that honours visual communication for traumatic experiences that cannot be communicated through verbal means alone.

Contributors MB coordinated all the coding and prepared the literature review. MSW was the lead clinician and facilitated the creation of the montage paintings. OK led the study and reviewed the analysis.

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