www.idosr.org

©IDOSR PUBLICATIONS

ISSN: 2550-7974

IDOSRJAM 9.2.2225

International Digital Organization for Scientific Research IDOSR JOURNAL OF ARTS AND MANAGEMENT 9(2):22-25, 2024. https://doi.org/10.59298/IDOSRJAM/2024/9.2.2225

The Use of Augmented Reality in Art Therapy Sessions

Asiimwe Kyomugisha T.

Faculty of Business, Kampala International University, Uganda

ABSTRACT

This paper explores the integration of augmented reality (AR) into art therapy, emphasizing its potential to enhance the therapeutic process by fostering creative expression, emotional exploration, and participant engagement. Art therapy has long been valued for its ability to externalize emotions through non-verbal forms of communication, while AR offers innovative, interactive tools that merge the virtual and physical worlds. The combination of these fields enables enriched creative experiences, breaking conventional barriers in therapy. This study outlines the benefits, challenges, and future possibilities of AR-enhanced art therapy, including real-world case studies and applications. Key limitations such as accessibility, ethical concerns, and technological barriers are discussed. We conclude that while AR presents transformative opportunities for art therapy, its implementation requires careful planning, ongoing research, and collaboration between technologists and therapists to ensure its effectiveness and accessibility.

Keywords: Art Therapy, Augmented Reality (AR), Creative Expression, Digital Tools in Therapy, Mental Health Innovations.

INTRODUCTION

Art therapy can provide a tool that allows the externalization of the gestalt because it does not consist of words; rather, it is a statement away from personal confession and communicates directly through its form. The temporal context where it takes place seems not to be properly set because the session goes according to the need or artistic flow of the picture-taking. The therapist, as an observer, accompanies the individual in their artistic ingenuity. This delicate art is also valued in the therapeutic realm. The creative process that occurs in the art therapy sessions has the potential to develop the person through the integration of creative and emotional experiences. In addition to this, art therapy sees the artwork as a form of revelation of the patient's mental life $\lceil 1, 2 \rceil$. Augmented Reality (AR) is an interface between the real and the virtual, where the user interacts

Art therapy enriches people's lives and often utilizes artistic tools and media to promote expression and healing. Similar to current renowned technologies and mobile gadgets, augmented reality meets the criteria for assisting art therapy programs toward improved outcomes. By incorporating three-

with the real world, whose elements are added and overlaid in a real-time virtual environment. It is therefore interactive and in real-time, which represents cutting-edge interactive digital art in the world of creation and artistic performance. The basic concept is to enhance the human experience of reality by adding virtual computer-generated information to sensory channels, mixed in real-time with the perceptions of the real world. This leads to the possibility of artistic creation in situ, in realtime artistic expression of the two modes of reality, recombination action, and showcasing interactive works as well as a new relationship with space and a new time management. In this work, we will explore the relationship between art therapy and augmented reality. To separate both, we can start by defining the concepts of each [3, 4].

Benefits of Incorporating Augmented Reality in Art Therapy

dimensional objects, painting, or drawing as a substitute for conventional pen-on-paper or brush-on-canvas, creativity, and artistic media may be enhanced. Augmented reality likewise does not discriminate against art novices or people with no artistic ability or preferences, as everyone can partake in such activities. Art

www.idosr.org

therapists could manipulate augmented reality to carry out more illustrative and interactive communication to provide participants with a better understanding of the therapy conducted. As a result, this method can traverse conventional barriers to approach someone's expression or insight [5, 6]. The incorporation of augmented reality in art therapy seems to be significant for a few reasons. Conjointly with art therapy and new media, augmented reality has been a trending topic due to its numerous applications such as inpatient care, education, and entertainment. These shared features are expected to engage the audience and maintain their concentration throughout the therapy

Challenges and Limitations of Using Augmented Reality in Art Therapy

Several potential challenges and limitations may be encountered in the use of AR applications in art therapy sessions. First, if the securement of necessary equipment requires ongoing service contracts or in-house technical expertise, then unforeseen technical difficulties, maintenance, networking, accessibility issues, and upgrades may become a source of concern. Furthermore, the use of AR in art therapy introduces a new learning curve. A percentage of the population may be uncomfortable with AR interactions or may be unable, unwilling, or uninterested in learning new ways of using technology. Some might refuse to share personal biometric information or agree to privacy waivers, smart treatments, or the displacement of personal or face-to-face interactions. People may be embarrassed about their lack of mastery over new technology or may worry that they can be more easily controlled and coerced through its use [9, 10]. There must also be several ethical considerations and assessments involved when adding AR to an art therapy session. The therapist has to continually assess how

Case Studies and Examples of Successful In The increasing number of art therapy sessions facilitated via AR allows adaptation to the changing user's world. Major accounts of how to integrate art therapy sessions conducted using AR show the variety of applications of mixed reality in the framework of artistic activities and psychotherapeutic sessions. The accounts present batch and individual-approach art therapy session methodologies, as well as how to cope with the diversity between participants on various levels. The case studies shed light on how technical issues can be surmounted, how to make them understandable, lose the sense of something rare and incredible about technology, how to encourage the

Asiimwe, 2024

session. Concerning conceptual visualization in therapy, augmented reality may assist with emotion-related activities. People often have issues with verbally describing or discussing their emotions. By using augmented reality, they might remember their emotional status after observing artistic creations of fear, anxiety, or hope instead of a verbal or drawn representation of the same idea, which may fail to resonate with their emotional memories. In distinguishing levels of distress, children have been observed to non-verbally point to or pick an angrier or scarier face from a progression of drawn facial expressions before, during, and after treatment [7, 8].

participation in such a session might have been ethically compromised by potential participants' lack of understanding of AR implications. A gap may also occur between early adopters of AR, who are typical of newer generations and from developing technology centers, and therapeutic establishments, whose practitioners come from traditional therapeutic fields. Resistance to or unfamiliarity with AR might emerge, just as it did during the transition from the use of paint to the use of technology when art therapy first began. Excellence in art therapy occurs in the creation of safe environments that minimize negative side effects, knowing that institutional change is fraught with resistance, defensiveness, and projective identification. Finally, it must be emphasized that technology is no substitute for caring, humanistic relationship the of empathetic presence required in therapy. Accepting that technological innovations have positive, as well as less beneficial potentials, will enable therapists to try, use, adjust, enjoy, and grow with them $\lceil 11, 12 \rceil$.

Case Studies and Examples of Successful Integration of Augmented Reality in Art Therapy

participants to have an idea, and how to popularize the outcomes drawn in virtual reality [13, 14]. There are various examples of how to use AR in artistic psychotherapy. The following are a few of the interactive projects conducted during art therapy sessions and other creative workshops carried out with physically disabled individuals. It is believed that unique artistic and personality elements incorporated in each of these projects are an introspective view into the possibilities and might of this therapeutic approach. They are consigning and encouraging an intuitive and analytical approach to view in an artistic dimension, other than the technical one also, the manual's book [15, 16].

Future Directions and Opportunities for Research and Practice

There are numerous possibilities to consider when discussing the use of AR in art therapy. Immersive experiences are beginning to proliferate and evolve into something more, offering experiences in additional dimensions such as touch, smell, warmth or cold, and perhaps taste. Being aware of these trends in technology and the rapid rate of change, it is clear that art therapists have an opportunity to return to the forefront of a new bedrock experience that embraces the ability to lose oneself completely in other worlds. More research must focus on populations in art therapy who would find the AR experiences beneficial, such as children, those with disabilities including autism, and individuals receiving treatment for anxiety or depression disorders. Future partnerships need to be forged between art therapists and technology developers to fine-tune and create the most beneficial experiences. More work is needed to

The integration of augmented reality in art therapy offers a revolutionary approach to addressing mental health needs, enhancing traditional practices with innovative tools that allow deeper emotional engagement and creative expression. AR has shown promise in overcoming verbal and artistic limitations, fostering inclusivity, and maintaining participant focus during therapy. Despite its benefits, challenges such as ethical concerns,

- 1. Mulemi BA. Mourning and grieving. InEncyclopedia of psychology and religion 2020 Jun 12 (pp. 1520-1524). Cham: Springer International Publishing.
- McCaffrey T, Higgins P, Morrison H, Nelligan S, Clancy A, Cheung PS, Moloney S. Exploring the role and impact of visual art groups with multiple stakeholders in recoveryoriented mental health services. The Arts in Psychotherapy. 2021 Feb 1;72:101748. <u>sciencedirect.com</u>
- Yin K, He Z, Xiong J, Zou J, Li K, Wu ST. Virtual reality and augmented reality displays: advances and future perspectives. Journal of Physics: Photonics. 2021 Apr 8;3(2):022010. iop.org
- Arena F, Collotta M, Pau G, Termine F. An overview of augmented reality. Computers. 2022 Feb 19;11(2):28.

establish training and support for art therapists as well as to follow up with individuals after a few years of utilizing the treatment method to ascertain if the treatment effect subsides over time $\lceil 17, 18 \rceil$. It is important to invite dialogue and foster deeper thinking through discussions in this area. Further presentations and publications on the work, all sharing experiences and knowledge, are required so that the new resources may be built upon and enriched to heal the soul. Art therapy has always based its development on uncharted territories and it is in this spirit that this presents a new territory that is yet to be traversed in order to foster the development of art therapy as a practice involving augmented reality. This new development aims to build new knowledge on the implementation and research properties of AR in art therapy [19, 207.

CONCLUSION

technological access, and therapist training must be addressed. Future efforts should focus on bridging the gap between technology developers and therapists, ensuring equitable access, and conducting longitudinal studies to evaluate long-term effects. By embracing AR, art therapy can evolve into a more dynamic and impactful practice, offering novel ways to heal and connect with diverse populations.

REFERENCES

- Singha R, Singha S. Mental Health Treatment: Exploring the Potential of Augmented Reality and Virtual Reality. InApplications of Virtual and Augmented Reality for Health and Wellbeing 2024 (pp. 91-110). IGI Global. <u>[HTML]</u>
- Wedyan M, Al-Jumaily A, Dorgham O. The use of augmented reality in the diagnosis and treatment of autistic children: A review and a new system. Multimedia Tools and Applications. 2020 Jul;79(25):18245-91.
- Lee S, Yoon J, Cho Y, Chun J. Systematic review of extended reality digital therapy for enhancing mental health among South Korean adolescents and young adults. Journal of the Korean Academy of Child and Adolescent Psychiatry. 2023 Oct 10;34(4):204. <u>nih.gov</u>
- 8. Poglitsch C, Safikhani S, List E, Pirker J. XR technologies to enhance the

www.idosr.org

emotional skills of people with autism spectrum disorder: A systematic review. Computers & Graphics. 2024 May 21:103942.

- 9. Shaqsi AZ, Sopian K, Al-Hinai A. Review of energy storage services, applications, limitations, and benefits. Energy reports. 2020 Dec 1;6:288-306.
- Nori H, King N, McKinney SM, Carignan D, Horvitz E. Capabilities of gpt-4 on medical challenge problems. arXiv preprint arXiv:2303.13375. 2023 Mar 20.
- Rauschnabel PA, Babin BJ, tom Dieck MC, Krey N, Jung T. What is augmented reality marketing? Its definition, complexity, and future. Journal of business research. 2022 Mar 1;142:1140-50. <u>[HTML]</u>
- Hennink M, Kaiser BN. Sample sizes for saturation in qualitative research: A systematic review of empirical tests. Social science & medicine. 2022 Jan 1;292:114523.
- Kaimal G, Carroll-Haskins K, Berberian M, Dougherty A, Carlton N, Ramakrishnan A. Virtual reality in art therapy: a pilot qualitative study of the novel medium and implications for practice. Art Therapy. 2020 Jan 2;37(1):16-24. academia.edu
- 14. Zubala A, Kennell N, Hackett S. Art therapy in the digital world: an integrative review of current practice and future directions. Frontiers in Psychology. 2021 Apr 8;12:595536.
- 15. Withrow RL. The use of color in art therapy. The Journal of Humanistic

Asiimwe, 2024

Counseling, Education and Development. 2004 Mar;43(1):33-40.

- 16. De Witte M, Orkibi H, Zarate R, Karkou V, Sajnani N, Malhotra B, Ho RT, Kaimal G, Baker FA, Koch SC. From therapeutic factors to mechanisms of change in the creative arts therapies: A scoping review. Frontiers in Psychology. 2021 Jul 15;12:678397.
- 17. Kievisiene J, Jautakyte R, Rauckiene-Michaelsson A, Fatkulina N, Agostinis-Sobrinho C. The effect of art therapy and music therapy on breast cancer patients: what we know and what we need to find out—a systematic review. Evidence-Based Complementary and Alternative Medicine. 2020;2020(1):7390321. <u>wiley.com</u>
- Meherali S, Punjani N, Louie-Poon S, Abdul Rahim K, Das JK, Salam RA, Lassi ZS. Mental health of children and adolescents amidst COVID-19 and past pandemics: a rapid systematic review. International journal of environmental research and public health. 2021 Mar 26;18(7):3432. <u>mdpi.com</u>
- Challoumis C. CHARTING THE COURSE-THE IMPACT OF AI ON GLOBAL ECONOMIC CYCLES. InXVI International Scientific Conference 2024 Oct (pp. 103-127).
- 20. Moore J, Manning J. What counts as critical interpersonal and family communication research? A review of an emerging field of inquiry. Annals of the International Communication Association. 2019 Jan 2;43(1):40-57.

CITE AS: Asiimwe Kyomugisha T. (2024). The Use of Augmented Reality in Art Therapy Sessions. IDOSR JOURNAL OF ARTS AND MANAGEMENT 9(2):22-25. https://doi.org/10.59298/IDOSRJAM/2024/9.2.2225