

Title of Presentation

ChatGPT Meets PT: Tech-Driven Transformation in Physical Therapy

I (we) would like to present at the following conference(s):

(click all options that you would like to be considered for)

APTA MA: November 16, Norwood Four Points, Norwood, MA

Please check the appropriate time for your presentation

90 minutes

Instructional Level

Basic

Equipment needs or special requests

A note to all participants to bring charged laptops. May need additional power strips to charge laptops.

This presentation falls into the following category:

Innovative Technologies

Course Description

This workshop will explore the diverse landscape of Generative Artificial Intelligence (Gen AI) and its integration into physical therapy practice. With the capabilities of Generative AI tools (ChatGPT being one of them) increasing and evolving rapidly, this seminar aims to equip physical therapists with the knowledge and skills necessary to leverage Generative AI technologies for enhanced patient care, streamlined operations, and improved marketing strategies.

Participants will get an overview of the multifaceted realm of AI, including machine learning, natural language processing (NLP), Generative AI and computer vision, to understand its potential applications in healthcare. From deciphering human language to automating documentation, Generative AI offers innovative solutions to longstanding challenges in clinical practice. While the adoption of AI presents opportunities for transformative change, it also poses unique challenges. Regulatory approval, electronic health record (EHR) integration, and clinician training are essential components of successful AI implementation. Through hands-on workshops and interactive discussions, participants will gain practical experience in utilizing Generative AI tools and navigating the complexities of integration. This will in turn help clinicians deliver optimal care to their patients while maximizing operational efficiency.

Key topics covered include:

- Brief overview of Artificial Intelligence and introduction to Generative AI and its relevance to physical therapy
- Deep dive into Generative AI applications in marketing and promotional material creation
- Exploring Gen AI-driven patient education tools
- Demonstrating Gen AI's role in automating documentation

Learning Objectives

1. Understand the basic concepts of Generative AI and its implications for physical therapy practice.
2. Explore effective strategies for utilizing Generative AI in marketing and promotional material creation.
3. Examine the potential of Gen AI in enhancing patient education and automating documentation processes.

Key References: Minimum of 5 current references

1. Alsobhi M, Khan F, Chevidikunnnan MF, Basuodan R, Shawli L, Neamatallah Z. Physical Therapists' Knowledge and Attitudes Regarding Artificial Intelligence Applications in Health Care and Rehabilitation: Cross-sectional Study. *J Med Internet Res*. 2022;24(10):e39565. Published 2022 Oct 20. doi:10.2196/39565
2. Davenport T, Kalakota R. The potential for artificial intelligence in healthcare. *Future Healthc J*. 2019;6(2):94-98. doi:10.7861/futurehosp.6-2-94
3. Fulk G. Artificial Intelligence and Neurologic Physical Therapy. *J Neurol Phys Ther*. . 2023;47(1):1-2. doi:10.1097/NPT.0000000000000426
4. Gobezie R. Can AI/Machine Learning Make Physical Therapy Valuable in the Healthcare Marketplace?. *Int J Sports Phys Ther*. . 2024;19(2):250. doi:10.26603/001c.92509
5. Hardardottir A, Heimisdottir M, Aronson AR, Gunnarsdottir V. Standardized documentation in physical therapy: testing of validity and reliability of the PT-ITC and mapping it to the Metathesaurus. *AMIA Annu Symp Proc*. . 2008;964. Cited in: Ovid MEDLINE(R) at <http://ovidsp.ovid.com/ovidweb.cgi? T=JS&PAGE=reference&D=med7&NEWS=N&AN=18999048>. Accessed May 22, 2024.
6. Mahmoud H, Aljaldi F, El-Fiky A, et al. Artificial Intelligence machine learning and conventional physical therapy for upper limb outcome in patients with stroke: a systematic review and meta-analysis. *Eur Rev Med Pharmacol Sci*. . 2023;27(11):4812-4827. doi:10.26355/eurrev_202306_32598
7. Mukherjee J, Sharma R, Dutta P, Bhunia B. Artificial intelligence in healthcare: a mastery. *Biotechnol Genet Eng Rev*. . 2023;1- 50. doi:10.1080/02648725.2023.2196476