

EMBEDDING

AI INTO

SCHOOL-BASED OT

Presented by Jayson Davies, MA, OTR/L





School-based OT

Host: OT Schoolhouse Podcast

Daily AI experimenter

Husband, dad, son, & brother



Today's Goal

-
1. To identify the opportunities and challenges of using Artificial Intelligence (AI)
 2. Discover ethical and practical strategies to support yourself and your students using AI.
-



AI

When you think “AI” what comes to mind?

What have you done using AI?

A large yellow circle containing the letters 'AI' in a bold, dark blue, sans-serif font. The background of the slide features a dark blue field with several diagonal stripes in red and white.

AI

"Artificial Intelligence (AI) is the simulation of human intelligence in machines designed to think and act like humans."

-Chat GPT 4o

Full disclosure: Chat GPT was used in the making of this presentation.



GPT

"A GPT (Generative Pre-trained Transformer) is an advanced AI model developed by OpenAI that generates human-like text based on pre-training on a diverse range of internet text and fine-tuning for specific tasks."

-Chat GPT 4o

Agenda

- 01** Research
- 02** Ethical Considerations
- 03** Evals, Intervention, & Doc.
- 04** Demo + Tips for using AI
- 04** Q+A



RESEARCH

- ★ Using AI to predict VMI Scores
- ★ Scoring of App-based Assessment tool (STEGA)
- ★ Cognitive & Affective skill development

Research

AI & SBOT

Qualitative Focus Group with 17 school-based OTs

Our research questions:

- What are the perceptions of school-based OT practitioners on the use of AI in their practice
- What prevents school-based OT practitioners from adopting AI in their practice?
- What can be done to support therapists in using AI in their role as school-based OT practitioners?





AI IN SBOT THEMES

Fair-Field & Davies, 2025 (In Progress)

- 01 Perceived Benefits
- 02 Challenges & Concerns
- 03 Uses & Applications
- 04 Future Considerations

Benefits of AI in SBOT



Efficiency & Time
Management



Enhancing Creative
Ideas



Assistance in
Communication

Challenges & Concerns



Reliability & Accuracy



Ethics & Security
Protections



Impact on Professional
Identity & Dependence

Uses & Applications



Documentation



Educational Support
(for us as therapists)



Treatment Planning

Future Considerations



Innovation



Need for Education &
Training



OT-Specific Tools

Ethical CONSIDERATIONS

Baked in Privacy Concerns

- HIPAA
- FERPA
- General concern for our student's safety and well-being



FLOW OF INFORMATION (BASIC)



Prompt

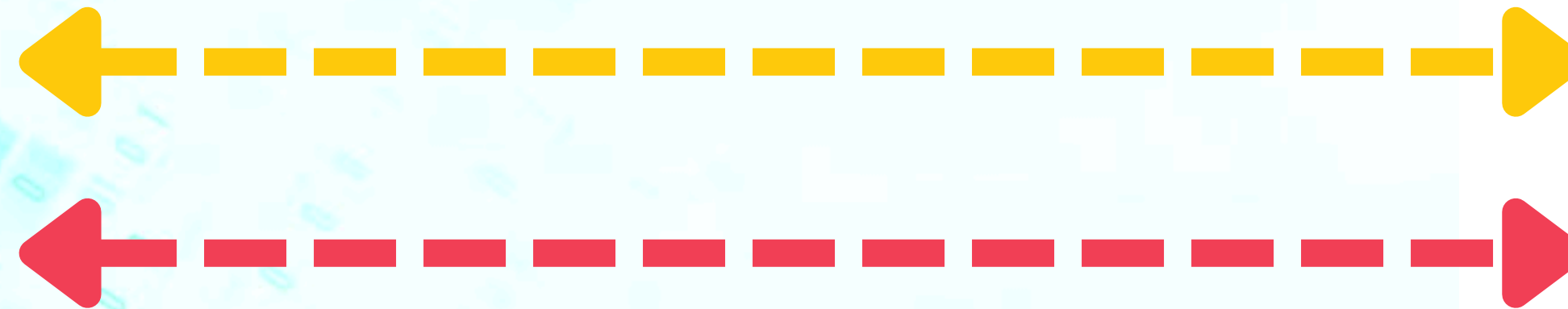


Response



Data is typically temporarily stored and utilized for training models by default.

FLOW OF INFORMATION (BASIC)



PHI



Data is typically temporarily stored and utilized for training models by default.

FLOW OF INFORMATION (HIPAA)



Anonymized data may be stored and utilized for training models by default.

HIPAA & FERPA

YOUR RESPONSIBILITY

Engage in discussions about whether your platforms are compliant.

Do not input PHI unless you know that the system is compliant AND approved by your employer.





VS.



Free version of nearly all AI platforms including:

- Chat GPT
- Bard / Gemini
- Claude
- Co-Pilot
- MagicSchool.ai

With proper set up, these paid programs CAN be made compliant:

- Claude
- MagicSchool.ai
- Compliant ChatGPT
- Chat GPT / Gemini / Co-Pilot
- Everbility (Designed for therapists)

**I only have access to the free
version...**

What can I do with that?

**You can still get value from AI tools
for evals, interventions, & even
documentation.**

However, DO NOT input PHI.

**You can still get value from AI tools
for evals, interventions, & even
documentation.**

**However, DO NOT input PHI.
Use pseudonyms instead.**

AI use in EVALUATIONS



AI + Evaluations



Summarize & synthesize various qualitative and quantitative data



Assist in providing research that may be useful



Assist in cleaning up our report and making it easy for caregivers to read.

AI AND SPECIFIC EVALUATION ACTIVITIES

- Help to read previous reports
- Assist in organizing thoughts
- Assist in finding research
- Analyze data (upload images)
- Grammar, Spelling, and Jargon
- Provide ideas to move forward
- Link to Michael GPT Chat

AI EVAL LIMITATIONS

- PHI safety
- Limited access to current research (Up to a few years)
- Lack of assessment tool data info (Copyright)
- Hallucinations + Self-fulfilling prompting
- Does not know your capabilities as a therapist

AI + Evaluations

IN THE FUTURE

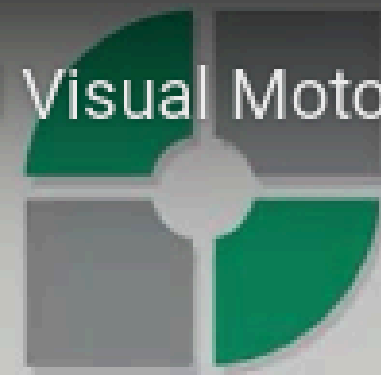
- WPS, Pearson, and others incorporate (secure) AI into their online scoring platforms.
- App-based assessments that score themselves. (Psymark's Shapes, letters, and Numbers)
- Video-capture and scoring?



Psymark's Shapes, letters, and Numbers



Psymark Digital Visual Motor Tools demo - Therapro



Psymark
Accuracy Redefined



Share



Watch on  YouTube

Welcome to the First Ever Digital Visual-Motor Test!

AI use in INTERVENTION



AI + Intervention



AI to support developing
our intervention plan



AI as an intervention,
support, or accommodation

AI to support planning

Starter

Input goals, ask for intervention plans

Intermediate

Input goals & ask for intervention plans around a particular model (ex. PEO)

Advanced

Provide entire evaluation and ask for:

Research
Framework
Goals
Tx. Plan
Accommodations
Progress tracking

AI + Interventions

IN 2024

- Tech-based AI interventions (Korro AI)
- Training students to use AI to express themselves.
- Training a student how to turn lecture transcripts into notes, or notes into learning tools.
- Adapting interventions based on student interest by using AI



Korro AI - AI Driven Therapy with Camera Capture



ACCOMODATION & SUPPORTS

- Text-to-speech
- Searching Transcripts
- Automatic note take (Otter.ai)
- Spelling and Grammar fixes
- Summarizing and expanding text
- Understanding language that others might not
- Read and transpose unique writing
- Social Stories (Ella.kids)
- Video modeling
- Simplify text
- Translate text
- Make academic content relatable
- Differentiated instruction
- Social interactions with a trained AI chatbot

AI + Interventions

IN THE FUTURE

- More apps that adapt therapeutic strategies in real time and provide data.
- Wearables to support visual and hearing impaired individuals.
- Instant feedback based on wearable or tool detection.



COMPASS WEARABLE

INTERVENTION LIMITATIONS

- PHI safety
- Student exposure safety
- Limited experience and research for use of AI in therapy
- Personal, professional, and societal identity
- Limited tools available

AI use in DOCUMENTATION



AI + Documentation



Data Collection &
Daily notes



Progress reports

AI + Data Tracking IN 2024

- Device-based AI interventions that track data for you.
- Using AI to grade legibility, cutting accuracy, and quality of works that can be captured in an image.
- Analyzing data sheets using AI



AI + Documentation + Progress Reports IN 2024

- Turn your shorthand written, typed, or voice notes into a coherent soap note (Speech to text soap note example)
- In other settings, session audio recording are being used to automatically draft notes for a practitioner
- Enable AI to analyze previous session data to create a progress note or Present levels report.



AI in OT

LET'S TRY IT OUT



Hands on trials



Evaluation



Intervention



Documentation

AI in OT

GETTING STARTED



AI + SBOT

GETTING STARTED

- Create a free Chat GPT or Claude account.
- Play around with it. Ask it for:
 - Recipes + Shopping list
 - Write a letter of recommendation
 - To re-write your invite in the voice of (insert fictional character here)
- Once you feel a little more comfortable, interact with it like you would a colleague (or maybe an OTS).
 - Remember - No PHI



IN SUMMARY

- AI can be used ethically in OT as a tool
- There are HIPAA compliant AI apps available
- AI can be used in different ways across the OT Process
- We are just getting started!





**Thank
You**



What questions do you have
related to using AI in
school-based OT?



Resources

- American Occupational Therapy Association. (2024, January 25). Integrating Artificial Intelligence in OT Practice | AOTA. Retrieved October 16, 2024, from Aota.org website: <https://www.aota.org/events/calendar/aota-live-webinar-series-integrating-artificial-intelligence-in-ot-practice>
- Fair-Field , T., & Davies, J. (2025). Analysis of Artificial Intelligence Adoption Among School-Based OTs: Insights From the Evidence-Based Technology Acceptance TAM2 Model. American Journal of Occupational Therapy, [Manuscript submitted for publication]
- Gadkari, S. (2023, July). The advent of artificial intelligence: OT and ChatGPT | AOTA. Retrieved October 16, 2024, from Aota.org website: <https://www.aota.org/publications/ot-practice/ot-practice-issues/2023/the-advent-of-artificial-intelligenc>
- Hood, T. (2024, August). Artificial Intelligence's Role in Occupational Therapy—The Innovation and Instability | AOTA. Retrieved October 16, 2024, from Aota.org website: <https://www.aota.org/publications/student-articles/career-advice/ai-innovation-instability>
- Huang, C.-Y., Yu, Y.-T., Chen, K.-L., Lin, G.-H., & Hsieh, C.-L. (2023). Using Artificial Intelligence to Identify the Associations of Children's Performance of Coloring, Origami, and Copying Activities With Visual-Motor Integration. American Journal of Occupational Therapy, 77(5). <https://doi.org/10.5014/ajot.2023.050210>
- Thomure, R. (2024, August). The current state of AI: Its role in treatment planning | AOTA. Retrieved October 16, 2024, from Aota.org website: <https://www.aota.org/publications/ot-practice/ot-practice-issues/2024/the-current-state-of-ai-its-role-in-treatment-planning>