Artificial Intelligence in Community Pharmacy Practice

Olivia Kinney, PharmD, MS

Clinical Program Development Manager

Kroger Health



OPA Annual Conference & Trade Show April 5-7, 2024



Disclosure Statement

Olivia Kinney has no relevant financial relationship(s) with ineligible companies to disclose.

and

None of the planners for this activity have relevant financial relationships with ineligible companies to disclose.

Learning Objectives

At completion of this activity, participants will be able to:

- 1. Define artificial intelligence and its origin;
- 2. Identify best practices for responsible use of artificial intelligence;
- 3. Discuss barriers to artificial intelligence implementation in pharmacy practice; and
- 4. Discuss use cases for artificial intelligence in pharmacy practice



The future of healthcare is **personalized**, not **generalized**.





History





AI algorithms are our toolkit



GenAl is the newest tool



Traditional vs. Generative AI





AI Drives Change









Experts warn of rise in scammers using AI to mimic voices of loved ones in distress

Analysis: State AI Legislation

Surges by 440% in 2023

Tom Hanks says dental plan video uses 'Al version of me' without permission

THE WALL STREET JOURNAL.

The Software Alliance

BSA

New York City Passed an Al Hiring Law. So Far, Few Companies Are Following It.



House leaders launch bipartisan artificial intelligence task force



AI Introduces New Risks



Responsible AI Frameworks



Barriers to Al implementation in pharmacy practice

Ohio Pharmacists Association

Barriers to AI Implementation

✓ Culture of suspicion or fear

✓Cost

✓Technology capabilities

✓ Upskilled talent

✓Data Infrastructure



What does AI mean for healthcare?





Al Use Cases in Pharmacy





Effectiveness of ChatGPT in clinical pharmacy and the role of artificial intelligence in medication therapy management

BioMed Research International

Artificial Intelligence-Based Data-Driven Strategy to Accelerate Research, Development, and Clinical Trials of COVID Vaccine



Trontiers

in Digital Health

Al spots signs of mental health issues in text messages on par with human psychiatrists

Artificial Intelligence

Solutions to Increase

Medication Adherence

the**bmj**

Generative artificial intelligence can have a role in combating vaccine hesitancy



Identifying Opportunities





✓Could AI provide a prediction or decision?

✓Is it ethical, legal, responsible?

✓ Can we get the data & talent to build and maintain?



Use Case: Personalizing Customer Outreach





Use Case: Chatbot









Researchers have been experimenting with artificial intelligence since the 1950's.

Al is accelerating due to demand for amplification of human power through automation, efficiency, and computing power. Al Barriers include:

- culture,

- cost,

- skills, and

- data infrastructure.

Innovation in healthcare will give the ability to utilize data to personalize and impact patient care. Without responsible practice, AI has potential for unintended consequences and may not perform the task as designed.

Identify impact and feasibility to prioritize your use of AI.

Data Science and AI are complex, but foundational knowledge enables everyone to understand its applications and value.



Al is a resource

to **improve** human

connections, **not**

replace them.

References

Overview of artificial intelligence in medicine - PMC (nih.gov)

Advancing Patient Care: How Artificial Intelligence Is Transforming Healthcare - PMC (nih.gov)

<u>Al in medicine: Where are we now and where are we going? - PMC (nih.gov)</u>

ChatGPT passes MBA exam given by a Wharton professor (nbcnews.com)

Generative AI to Become a \$1.3 Trillion Market by 2032, Research Finds | Press | Bloomberg LP

Fretting about election-year deep fakes, states roll out new rules for A.I. content. - The New York Times (nytimes.com)

AI, ChatGPT use in medicine can help or hurt patients – and doctors (usatoday.com)

<u>Amazon spends \$2.75B on Anthropic in largest venture investment yet (cnbc.com)</u>

What is Artificial Intelligence (AI)? | IBM

<u>The potential for artificial intelligence in healthcare - PMC (nih.gov)</u>

Artificial intelligence (AI) algorithms: a complete overview | Tableau

Experts warn of rise in scammers using AI to mimic voices of loved ones in distress - ABC News (go.com)

BSA Analysis: State AI Legislation Surges by 440% in 2023 | BSA | The Software Alliance

New York City Passed an Al Hiring Law. So Far, Few Companies Are Following It. - WSJ



Thankyou.



Need More Information?

Olivia Kinney, PharmD, MS

olivia.kinney@kroger.com



OPA Annual Conference & Trade Show April 5-7, 2024

