



Artificial Intelligence

Impact on Pharmacy Practice



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Expert Panel



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Important Definitions

Machine Learning (ML)

Algorithms that learn from historical data to predict outcomes (e.g., predicting vancomycin toxicity risk using EHR + lab trends).

Large Language Models (LLMs)

Advanced NLP systems (e.g., drafting clinical summaries, answering drug information questions from guidelines).

Generative AI

Creates new content (e.g., drafting patient education, prior auth letters, or discharge counseling notes).

Ambient AI

Passive, real-time AI (e.g., listening during rounds and generating medication-related documentation automatically).

Neural Networks

A type of ML modeled after brain pathways—used in complex pattern recognition like ADE prediction.



Opening Perspective Questions

What aspect of pharmacy practice is most likely to be transformed by AI within the next five years?

Where is AI currently overhyped in healthcare, and where is it underestimated?





Clinical Practice Questions

How should pharmacists balance AI-driven clinical recommendations with professional judgment?

Which medication-use decisions should never be fully automated?





Health System Operations

How can AI optimize medication-use systems across prescribing, dispensing, and monitoring?



Medication Safety

**How can AI help identify medication safety risks
before they occur?
If so, how?**



Workforce and Education

What new competencies will pharmacists need in an AI-enabled healthcare system?

Should pharmacy education and residency programs formally incorporate AI training?





Finance

Where could AI have the largest financial impact on health systems related to medications?



Closing Questions

What is one AI application every health-system pharmacy department should begin exploring today?



Ethics and Governance

Who is accountable if an AI tool contributes to a medication-related error?

How should health systems govern AI tools used in clinical decision-making?

