How Al is the future of healthcare and how to harness it



Objectives

- Understand what AI is and its application in healthcare
- Describe ways new technologies can improve healthcare for safety, prevention, and equity
- Understand the potential dangers and pitfalls of these health technologies





What even <u>is</u> Al?

What even <u>is</u>Al?



Al as we commonly know it

















THEN

Clunky EMR Disjointed Systems Manual data entry If/Then logic



NOW

Endless inputs Infinite processing power Complex "neural networks"

What does Al look like for healthcare?



BIG DATA

Predictive Analytics Large Language Models Diagnostics



AMBIENT TECHNOLOGY

Monitoring Smart Rooms

CLINICAL DECISION SUPPORT

"Smart" suggestions Collating inputs



VR / AR / Simulation

Training Education



PATIENT-GENERATED DATA

Wearables Routine technology



PRECISION MED

Genomic-specific interventions

Big Data

	Example	Impact	
Analytics	OpenAI: Epic (Analytics) Google Cloud:HCA	Predictive, large analytics	
LLM / Chat	ChatGPT IBM Watson Google DeepMind OpenAI:Epic (InBasket)	Clinician resource Equalize patient education	
Diagnostics	Viz.AI (Radiology)	Faster diagnostics Higher accuracy	

CLINICAL DECISION SUPPORT

Integrating multiple inputs to actually trigger support for clinicians



Knowledge



Clinical data

EMRs

Pharmacy

Social Determinants



Patient-generated

Wearables

Survey

Daily tech footprint

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	DATIENIT CE				
Ш	PATIENT-GENERATED DATA				
Ш	01.	02.	03.		
ш	Access	Wearables	Home Monitoring		
	Rural medicine	Event notification	Booths		
Ч	Convenience	Prediction	Home monitoring		

AMBIENT TECHNOLOGY







EFFICIENCY

Documentation

Scribing

Chart Review

PATIENT EXPERIENCE

Smart Rooms

Virtual Assistants

SAFETY

Event prediction

Monitoring

AUGMENTED AND VIRTUAL REALITY





VR Simulation



PROJECT SPOTLIGHT

PRECISION MEDICINE







6

Targeted therapies













the future.

How does this all come together?

×



X

С







Patient Safety



BIG DATA

Prediction of safety events



AMBIENT TECHNOLOGY

Monitoring Smart Rooms

VR / AR / Simulation

CLINICAL DECISION

SUPPORT

Complex interactions,

diagnoses, treatment

Training Education



PATIENT-GENERATED DATA

Wearables



PRECISION MED

Genomic-specific interventions

INFECTION PREVENTION

BIG DATA

Surveillance, reporting, contact tracing, prediction

COMPLIANCE & MONITORING

Hand hygiene PPE Room sterilization



TRAINING / SIM

Outbreak simulation

PRECISION MEDICINE

Targeted antibiograms

How do we get X there?!



Core Values



Pitfalls



Implementation, Implementation, Implementation

X



Health Technology

Harnessing the power of technology for our patients, providers, and health system.

THANK YOU!

Questions?

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