



THE OFFICE OF CEO

ARTIFICIAL INTELLIGENCE IN HEALTHCARE

The Excitement & Concerns

Presentation to the VT House Committee on Health

Date: March 17, 2025

Presenter: Tania Malik, J.D.

AGENDA

- ▶ Overview 01
- ▶ Advantages of AI 02
- ▶ Concerns About AI 03
- ▶ The Role of The Regulator 04
- ▶ Digital Twin Technology 05
- ▶ Will AI Replace Physicians? 06



Think of AI That Exists In Your Life

- Netflix recommendations
- Sorting your email by priority
- Amazon picks for you
- Grammar assistants
- Google Maps
- Alexa
- Fraud detection on credit cards



Overall Benefit In Your Life

DEFINITIONS

▶ Algorithm

▶ Machine Learning

We give the machine a set of data and it starts to learn better than we can because of the amount of data we are giving it is so large. It demonstrates learning. The better the data, the better the answers.

AI is pattern recognition - cancer looks like this



TYPE OF DECISION MAKING IN HEALTHCARE



1

Human Only

2

Shadow: Listening in on the conversation and then documenting it.

3

Suggesting: As decision support.

4

Partial: Flag a problem on a scan and have the doctor review it.

5

Full



AI IN HEALTHCARE IS ALREADY HERE

▶ Large Amount of Existing Data

- Genetic testing, Ancestry.com, RPM, RTM

▶ Creates Efficiency

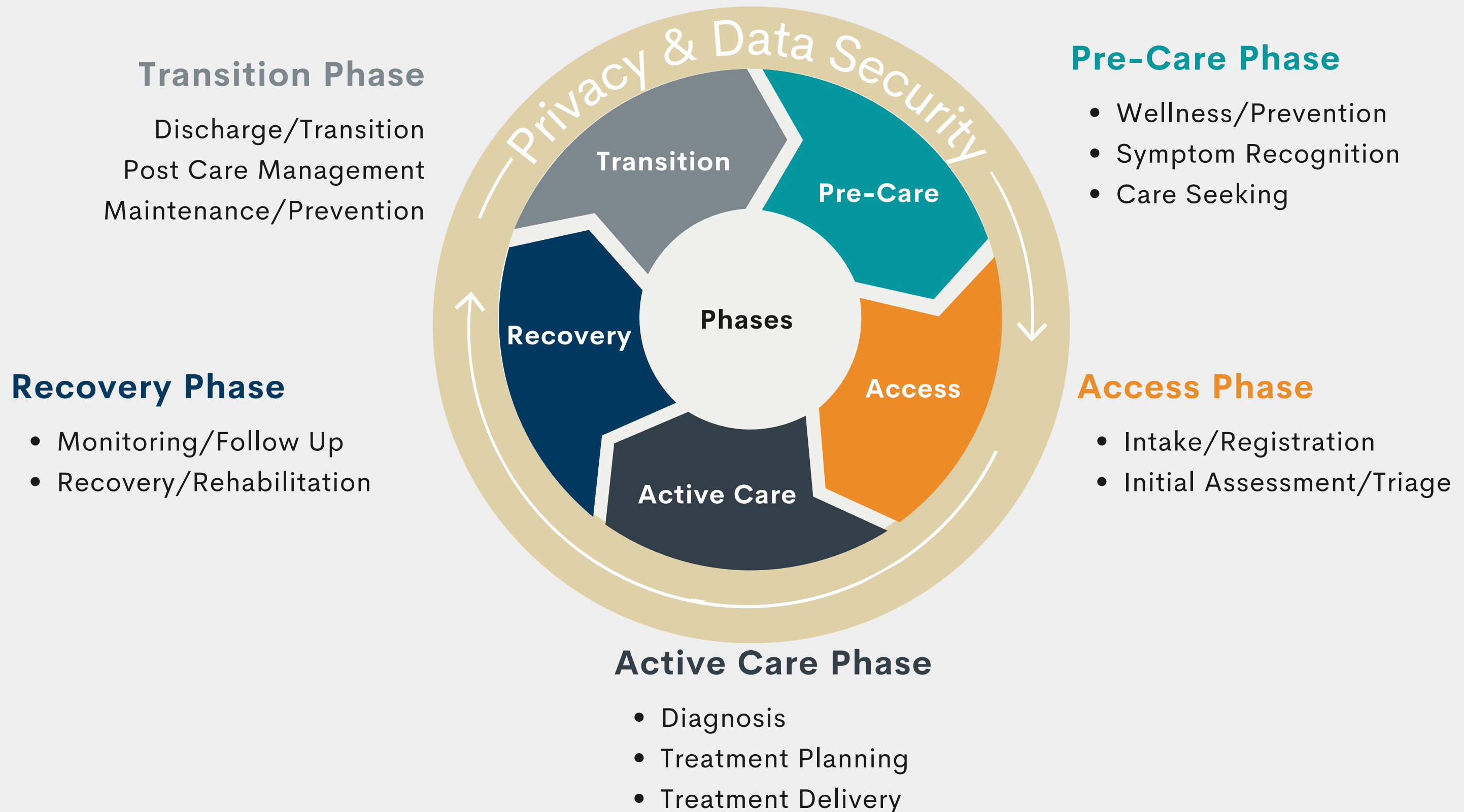
▶ Solid Outcomes

- Image Analysis
- Predictive readmission rates

▶ Provider Shortages

AI is a win for society and regulations need to be nimble without creating barriers for innovation while balancing safety.

PATIENT JOURNEY

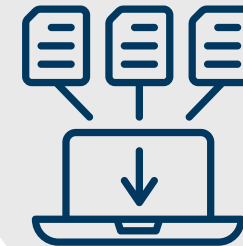


IMAGINE A DOCTOR'S VISIT WHERE AI..

**Listened to the
conversation**



**Hired the physician with AI
knowing who is more likely to
excel**



**Analyzed the data
the patient provides**

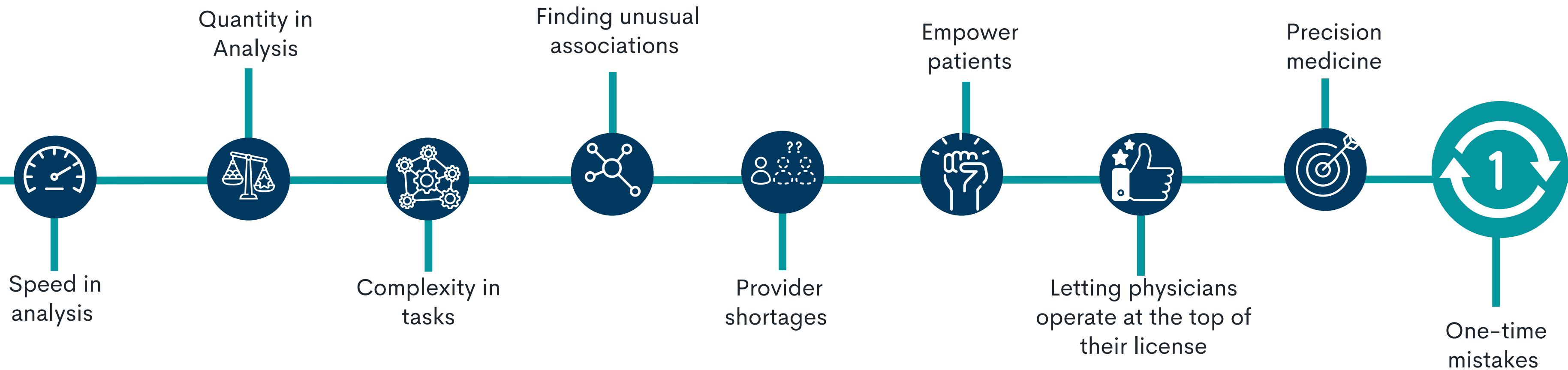


**Collected all of the medical
records for a patient**

Some patients don't know
the name of the doctors
they have seen.



BENEFITS





- AI basis
- Using technologies that have not been peer reviewed
- Regulations that don't change quickly enough and can stymie innovation
- Privacy
- Cybersecurity
- Deep Fakes
- Who has the legal responsibility

REGULATORY RESPONSIBILITIES & CONSIDERATIONS

- Patients will independently use technologies that may not be vetted.
- Patients Rights (Consent).
- Legislation has to be balanced and nimble.
- Bring companies to the table and discuss where the technology is going.
- Privacy and Security at the forefront but without crushing progress. Existing laws may be sufficient and federal laws are a guide.

UTAH ENACTS AI-FOCUSED CONSUMER PROTECTION BILL









The bill imposes disclosure requirements on entities using generative artificial intelligence ("AI") tools with their customers, limits an entity's ability to blame generative AI for statements that violate consumer protection laws, and creates the Office of Artificial Intelligence Policy to administer a state AI program. The UAIPA's disclosure requirements are not particularly novel, as some state chatbot laws require similar disclosures.¹ However, companies should be mindful of Utah's new requirements as they develop their AI governance programs.

DEFINITION OF GENERATIVE AI

The UAIPA concerns generative AI, which the act defines as "an artificial system that (a) is trained on data; (b) interacts with a person using text, audio or visual communications; and (c) generates non-scripted outputs similar to outputs created by a human, with limited or no human oversightts,



Governor
signed on
March 13,
2025

-  Home
-  Patients
-  Sessions
-  Notes
-  Reports
-  Admin
-  Claims
-  S

Gordon Steele

Recorded: February 12 2025, 10:21 AM

Provider
Scot Sessions

SUMMARY OF SESSION NOTES

[Add to note and re-generate](#)

DAP Note - Medical Necessity

Copy Note

Data Copy Text

Gordon reported ongoing difficulties with sleep, stating that despite using an eye mask, he stays up too late and wakes frequently throughout the night. He mentioned that on some days, he sleeps in past 10 AM and struggles with getting out of bed, attributing part of this to the cold weather. Gordon expressed feelings of dread and a lack of energy, particularly when thinking about going to work. He also admitted to irregular eating habits, often forgetting to eat during the day and then consuming large amounts of food late at night, such as most of a pizza with sides.

Assessment Copy Text

Gordon continues to experience significant sleep disturbances and irregular eating patterns, contributing to his feelings of dread and low energy. These symptoms suggest ongoing challenges with maintaining a healthy daily routine, which may be exacerbating his mood and motivation issues. The lack of a structured eating and sleeping schedule appears to be a barrier to his progress, potentially maintaining his low energy levels and feelings of dread. Without intervention, these patterns may lead to further deterioration in his daily functioning and overall well-being.

Plan Copy Text

Encouraged Gordon to establish a more regular eating schedule, including consuming protein in the morning and having snacks throughout the day. Recommended having a substantial meal by 7 PM, regardless of its healthiness, to ensure he eats regularly. Advised Gordon to be in bed by 10 PM and avoid phone use, suggesting techniques like counting backwards from 100 or imagining peaceful settings to aid in falling asleep. Suggested setting an alarm to wake up by 7 or 8 AM and having someone call to encourage him to get up. Agreed to check in after 5 days to assess progress.

[Schedule in-depth demo](#)

DIGITAL TWIN TECHNOLOGY



- Virtual replica of real world counterpart and is constantly updated based on real-time data.
- In use for decades to predict machine failures, traffic patterns, power grids.
- Now in healthcare, it is use for precision and population health.

DIGITAL TWIN continued.



- Digital Twin can be used in the healthcare workforce
 - Documentation.
 - Telling the human which room they should be in.
- Scale the care team and use the tech to nudge the patient and then communicate to the care team what has happened so they are clear and their time is maximized.
- Precision care allows for better outcomes.
- Providers main tool in the quick office visit is prescriptions.
 - With a digital twin, can offer the providers a better look into the patient and give better outcomes and better provider satisfaction.
- De-identified data can show how a population is doing and can pool outcomes.



A WORD ABOUT AVATARS



- **Nurse Avatars**
 - **Mental Health Therapists**
 - **Peer to Peer Support**
- 

Will AI Replace Physicians?

"AI will not replace medical professionals. But medical professionals that use AI will replace those that don't."

- *Dr. Bertalan Mesko*

Thank You For Listening!

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