

Session 2: Examples of Efforts to Develop, Implement, and Use Integrated Diagnostics

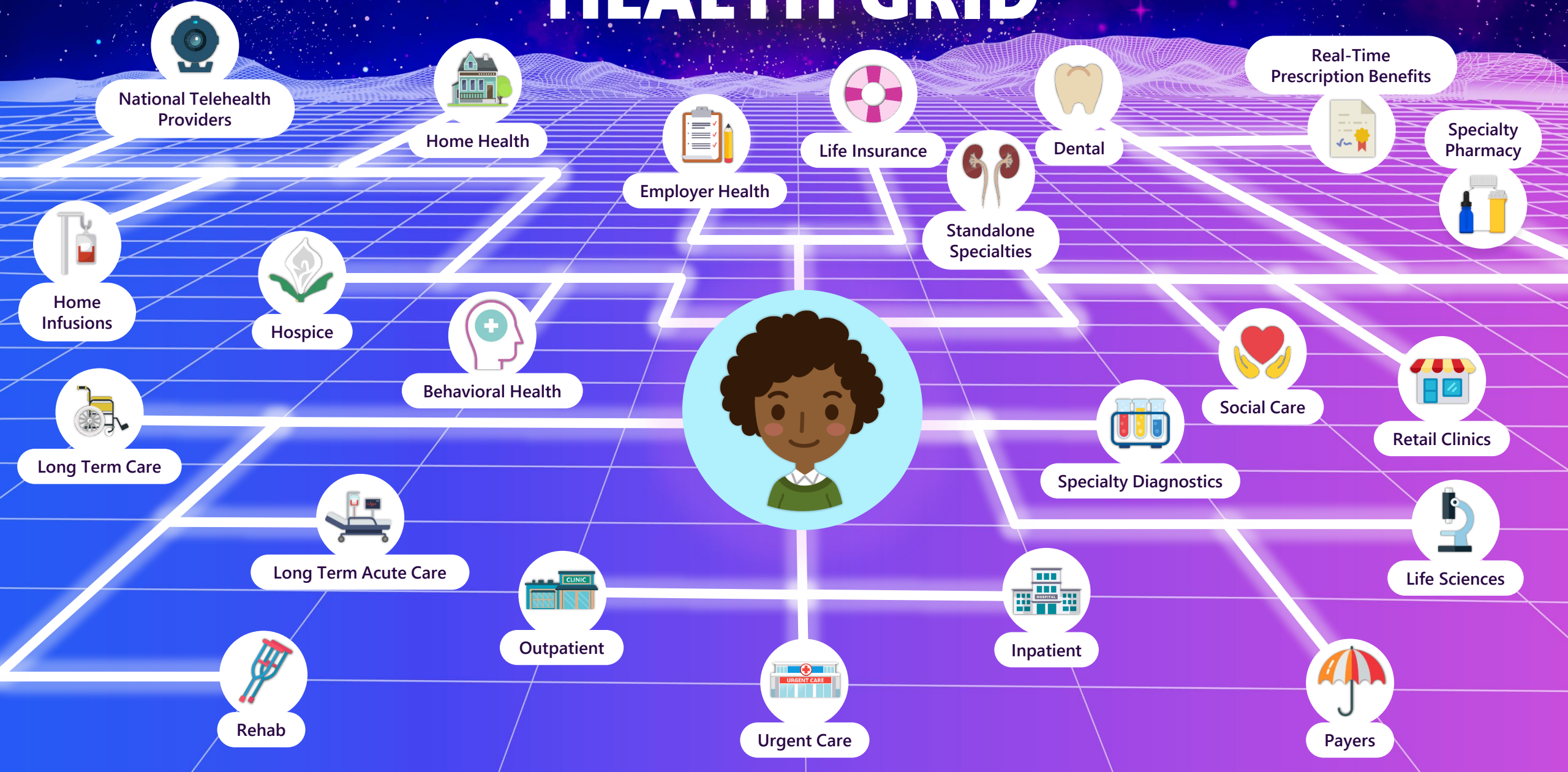
Nick Trentadue



...with the patient at the heart

Epic

HEALTH GRID



Personal Story

Do I have
cancer?

What does
google say about
this?

I'm afraid

This says benign,
am I okay?

CLINICAL HISTORY

Elevated prostate specific antigen

FINAL DIAGNOSIS

A. Right Apex Prostate: Needle Core Biopsy:
Benign prostatic tissue

B. Right Mid Prostate: Needle Core Biopsy:
Benign prostatic tissue

C. Right Base Prostate: Needle Core Biopsy:
Benign prostatic tissue

D. Left Apex Prostate: Needle Core Biopsy:
Benign prostatic tissue

E. Left Mid Prostate: Needle Core Biopsy:
Benign prostatic tissue

F. Left Base Prostate: Needle Core Biopsy:
Benign prostatic tissue

G. Lesion #1 Prostate: Needle Core Biopsy:
Prostatic adenocarcinoma
Gleason pattern: 4 + 5 = 9/10
Percent Gleason pattern 4: 60%
Percent of Gleason pattern 5: 40%
Grade Group: 5
Number of cores involved: 2/3
Maximum involvement of a single core: 30%
Overall involvement by carcinoma: 25%
Extraprostatic extension: Not identified
Perineural invasion: Not identified

H. Lesion #2 Prostate: Needle Core Biopsy:
High grade prostatic intraepithelial neoplasia

Perspectives



Diagnosticians



Providers



Patients



Diagnosticians



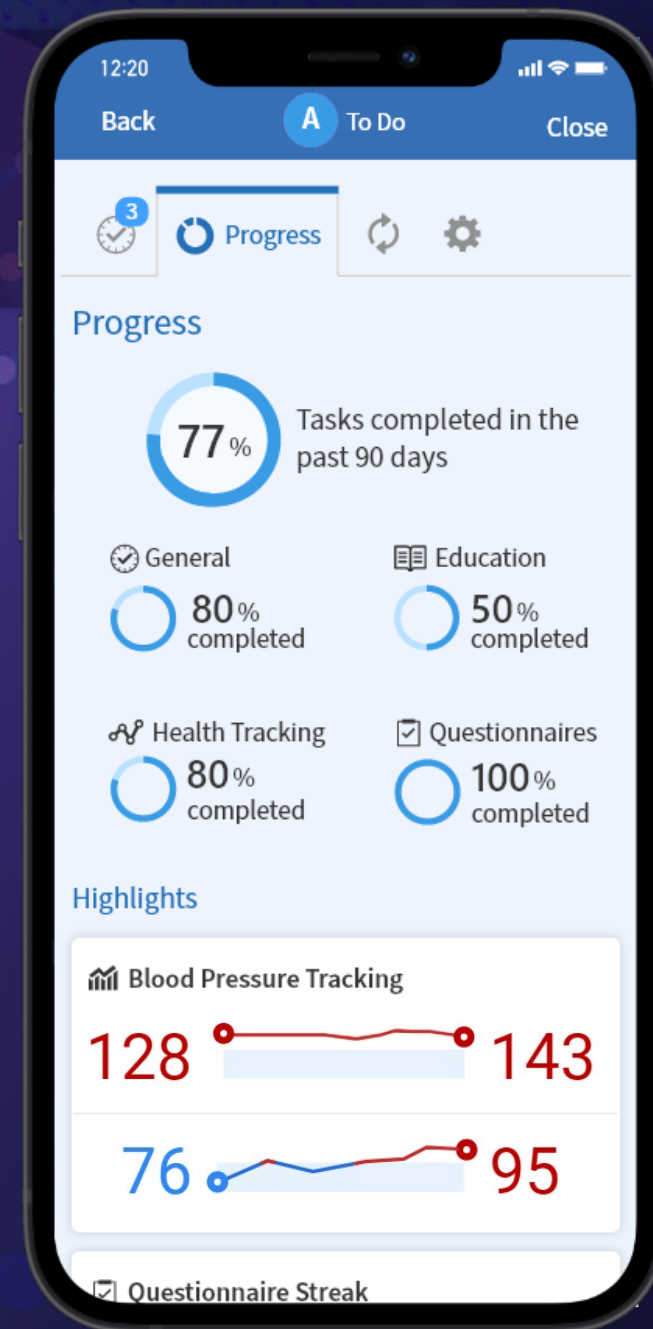


Providers





Patients



The Power of Data



Discrete Genomic Data



Machine Learning & Ontology



Actionable Decision Support



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