

Proactively identifying adolescents at risk for mental health disorders

Industry Leaders & Innovators





Holly Varnell Founder & CEO



Darron Segall
Co-Founder & CSO



Jeff Branagh Strategic Advisor to DREAM BIG™ for Adolescents

AI-Driven Diagnostics, Health
Informatics & Advanced EHR Solutions

Reimbursement, Health Economics, & Payer Access for Novel Medical Technologies

Expertise: Behavioral Health, Al Integration, Patient-centered Solutions



Cameron Breze
Engineering Lead for DREAM
BIG ™ for Adolescents



Merav Segall, LMFT Clinical Advisor to DREAM BIG

TM for Adolescents

Clinical Decision Support, EHR Integration, Product Management, & Data Science

Licensed Marriage Family Therapist, Child & Adolescent Psychotherapy

Alarming Suicide Rates Among Children

The need for early identification & intervention



The urgency of addressing youth mental health

Suicide is the 2nd leading cause of death in children ages 10-14¹

Suicide is the 8th leading cause of death in children ages 5–11¹



Escalating Mental Health Issues During the Pandemic

A snapshot of mental health in high school students

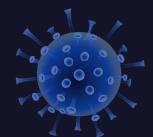
37% reported experiencing poor mental health¹

4.5 times more likely to experience depression than other age groups²



44% reported they persistently felt sad or hopeless during the past year¹

46% reported having less motivation to do activities they usually enjoyed³



55% experienced emotional abuse by an adult in the home⁴

^{4.} https://healthier.stanfordchildrens.org/en/data-shows-emotional-abuse-increased-among-teens-during-pandemic/#:~:text=New%20data%20from%20the%20Centers,other%20adult%20in%20the%20home



^{1.} https://www.cdc.gov/media/releases/2022/p0331-youth-mental-health-covid-19.html

^{2.} https://aspe.hhs.gov/sites/default/files/documents/0bcc372f4755cca29ebc80a47cfe300e/child-adolescent-mh-covid.pdf

^{3.} https://www.unicef.org/lac/en/impact-covid-19-mental-health-adolescents-and-youth#:~:text=The%20general%20situation%20in%20the,motivated%20to%20do%20regular%20chores.

The health care system in the U.S. was designed for adults, & when it doesn't work for young people, we call them non-compliant & hard to reach. But it's actually the system that's hard to reach.

Angela Diaz, M.D., Ph.D., M.P.H. Director of the Mount Sinai Adolescent Health Center



Real World Example of the System Missing Signs & Symptoms Leading To Self-harm





- Frequent wellness checkups & occasional clinic visits
- No warning signals identified

Symptoms presented: Significant physical functional impairment

Outpatient Therapy Diagnosis: Disordered Eating



Case report: 32806 - Male, 17 years old

- Emergency department visit for symptoms
- Discharged with no ensuing follow-up or specialist referral

Symptoms presented: Over 50 lacerations from exacto knife

Outpatient Therapy Diagnosis: Suicidal Tendencies



Navigating Healthcare Complexities

Addressing key obstacles to implementing solutions

- Multi-point integrations across several variations of EHRs per system
- Meeting consumer-driven healthcare expectations
- High costs & administrative burden with paper forms
- Shortage of nurses & providers
- Inability to measure screening accuracy



Leveraging digital phenotyping & evidence-based practices

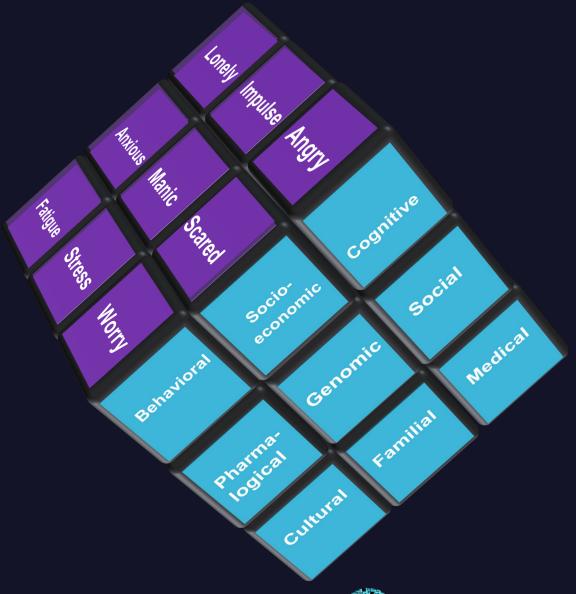
- EHR-agnostic platform
- Consolidated patient experience across health systems
- Automated, collaborative, evidence-based guidance
- Measurement-driven framework with endorsed adolescent mental health metrics

Digital Phenotyping for Earlier Disease Detection &

Intervention

Al-powered deep dive into EHR meta data for proactive patient profiling

- Advanced predictive technology using symptomology to enhance traditional screening methodology
 - Backed by evidence built on > 80 billion unique patient data points
 - Seamless integration with streamlined care coordination
 - Automated deployment of resources for adolescents & their caregivers

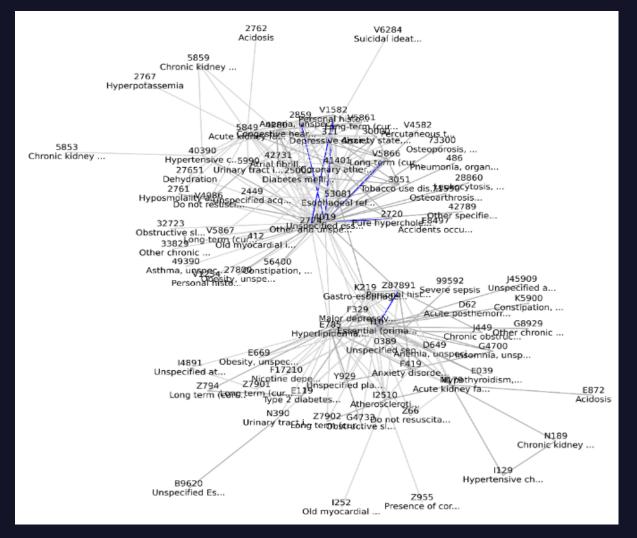




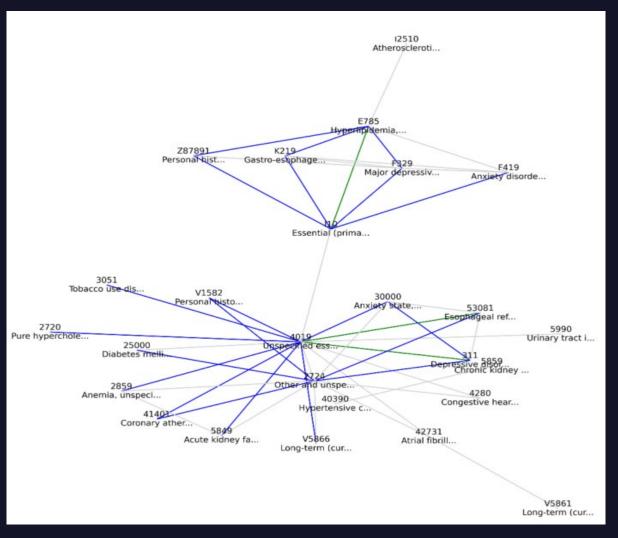
Decoding Comorbidity Connectivity in Mental Health Disorders



Harnessing big data for deciphering connectivity patterns



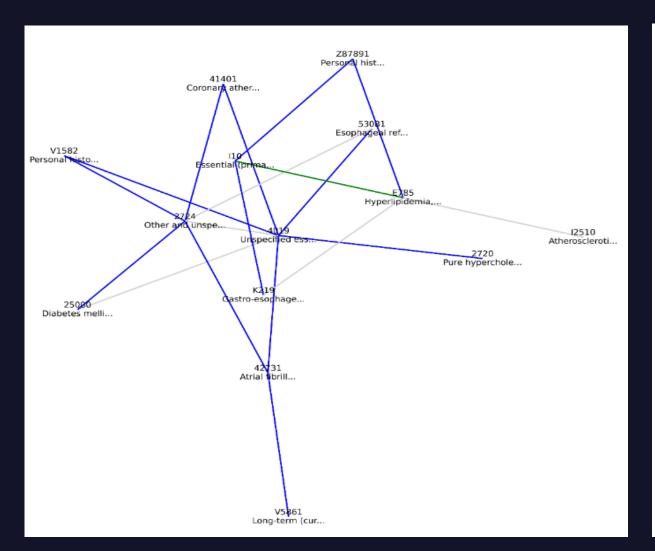
Microscopic dive into pivotal links



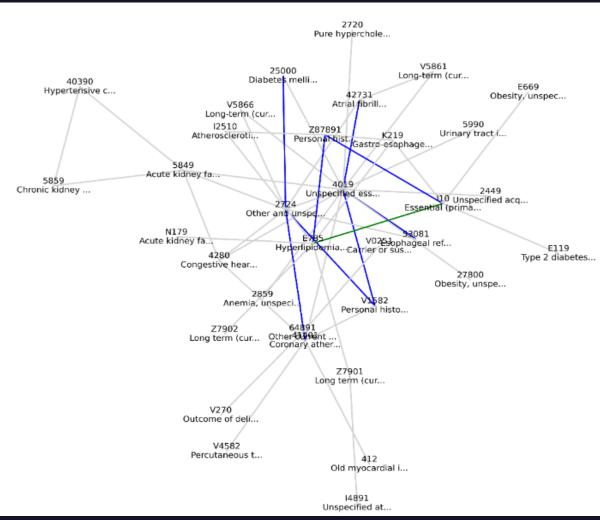
Comorbidity Connections In Patients Without Mental Illness



Mapping limited comorbidity interactions



Examining the few but vital comorbidity connections



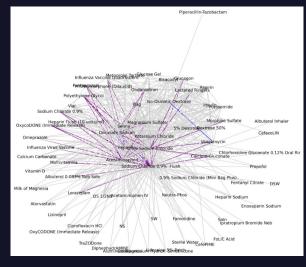
Deciphering Hidden Patterns in Asymptomatic Patients

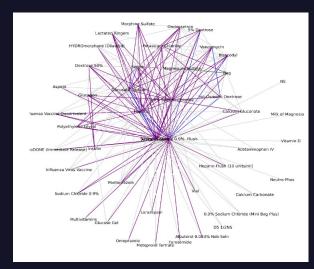


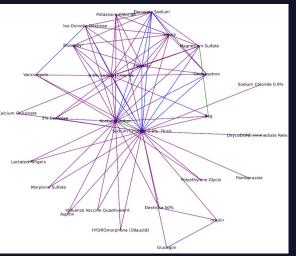
Comorbidities in patients with suicidal ideation

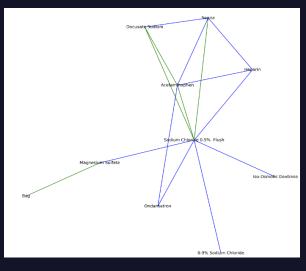
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Integrated medication networks in patients with mental illness









Transforming Both Provider & Patient Experiences

Enhancing the current clinical workflow

Provider features:

- Integrated patient questionnaires
- Clinical decision support alerts
- Secure messaging to patients & coordinated providers
- Patient monitoring







Patient features:

- Self-assessment
- Standardized patient/parent reported outcomes
- Clinical resources with patient/parent education
- Automated in-network provider care coordination







Leveraging Advanced Al To Transform Clinical Outcomes

Impact on Modern Healthcare Systems

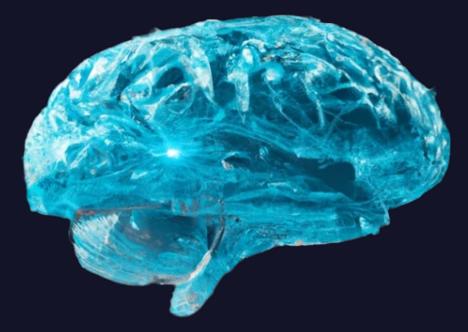
- Streamlined disease monitoring & management
- Informed decision making based on empirical evidence
- Rapid assimilation of technological innovation

Enhanced Data Retrieval & Insight Generation

- Cutting-edge data analytics platform
- Multi-sourced data incorporation
- Continuous refinement of algorithm

Al with Integrity

- Active measures to offset algorithmic bias
- Interventions informed by socioeconomic factors
- Cross-referenced data validation



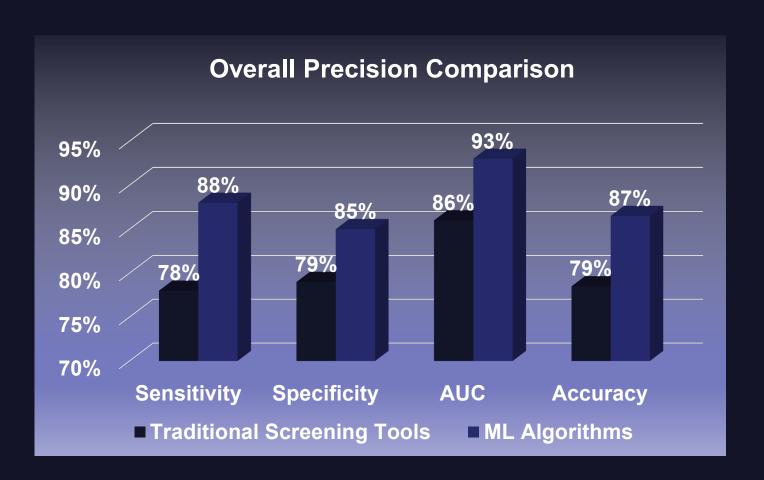
cognAlzant dx patent pending technology



A Comparative Analysis Against Conventional Screening Tools



Establishing clinical validity of machine learning algorithms for mental health screening

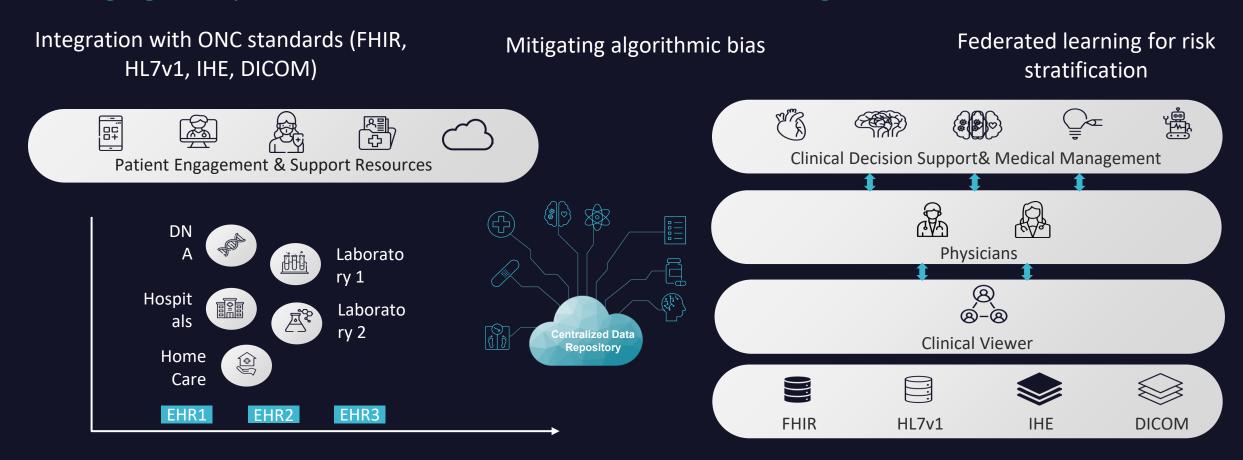


Studies have shown traditional screening methods are:

- 10% more likely to miss detection
- 8% less accurate
- 6% more likely to yield a false positive result

Multifaceted Data Integration for Enhanced Clinical Decision Support & Patient Care

Leveraging multiple data sources for informed decision making



Learning new indications in new disease states & patient populations while building evidence for existing technology





Join the Dream Big[™] health team & be a part of revolutionizing healthcare through the transformative power of Al-driven solutions.

Thank you!

Dream Big™ Health
(720) 446-9002
dreambigcds.com
admin@dreambighealth.org