SLEEP IN PRADER-WILLI SYNDROME

September 27, 2022





WHAT IS PRADER-WILLI SYNDROME?

TRUSTED SOURCES MAY NOT HAVE CURRENT INFORMATION

MAYO CLINIC

Prader-Willi (PRAH-dur VIL-e) syndrome is a rare genetic disorder that results in a number of physical, mental and behavioral problems. A key feature of Prader-Willi syndrome is a constant sense of hunger that usually begins at about 2 years of age. "Phase 3 is characterized by hyperphagia, typically accompanied by foodseeking and lack of satiety (median age of onset: 8 years; quartiles 5-13 years)."

- Miller et al., 2011 https://doi.org/10.1002/aj mg.a.33951

People with Prader-Willi syndrome want to eat constantly because they never feel full (hyperphagia), and they usually have trouble controlling their weight. Many complications of Prader-Willi syndrome are due to obesity.



LIMITED DISEASE UNDERSTANDING

CONSIDER THE CONSEQUENCES

- Social stigma
- Self-fulfilling prophecy
- Failed clinical trials

"Science is a bit like the joke about the drunk who is looking under a lamppost for a key that he has lost on the other side of the street, because that's where the light is. It has no other choice." – Noam Chomsky



THE STREETLIGHT EFFECT

OBSERVATIONAL BIAS

One night a policeman found a man searching for his keys under a streetlight. He joined to help, only to realize after hours of searching, that the man had lost his keys in the park.

"Then why are you searching here?" asked the policeman."

"Because this is where the light is," replied the man.



"I'm searching for my keys."



TURNING ON THE LIGHTS

A PARADIGM SHIFT

Ethical Framework

- Trusted relationships
 built
- Social data sources identified
- Consensus reached/Data Access Agreement signed

Conversation Analysis

- TREND engine analyzes anonymized co-social data
- Conversations categorized using TREND's lexical knowledge-base

Evidence Accelerator

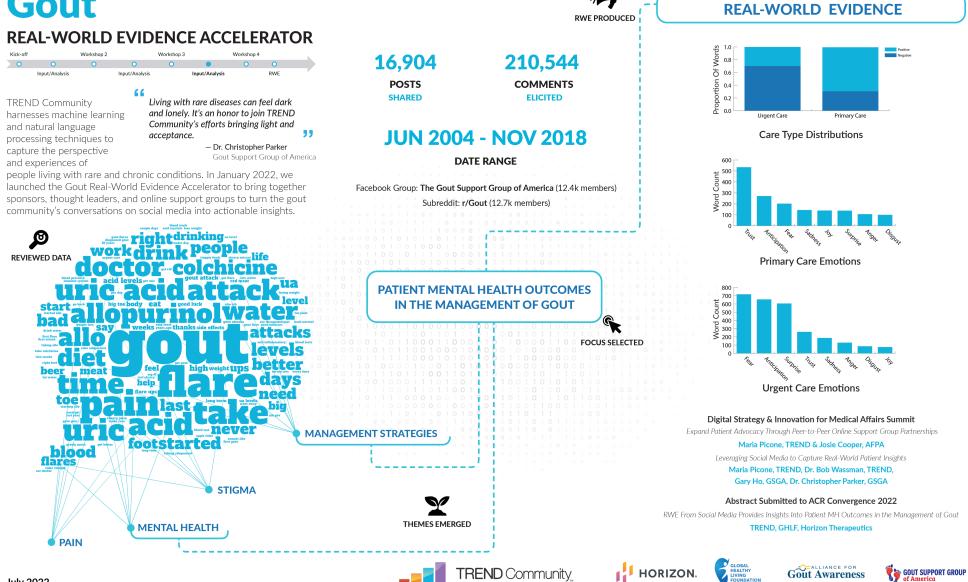
- Community stakeholders convene
- 6 to 12 months
- 2-4 workshops
- Define needs and priorities
- Data Exploration

Real-World Evidence

- Publish in peerreviewed journals
- Present at conferences and scientific meetings
- Data used for medical product development



Gout



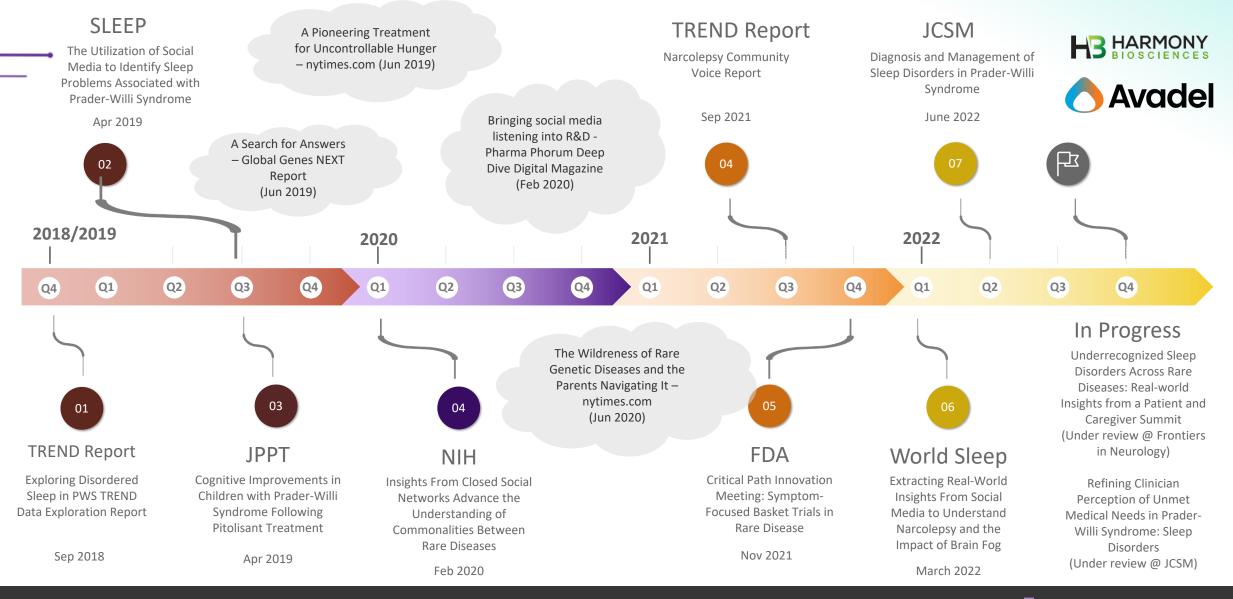


"SLEEP IN RARE" EA



Harmony Initiates Trial of Pitolisant for PWS (June 2020)

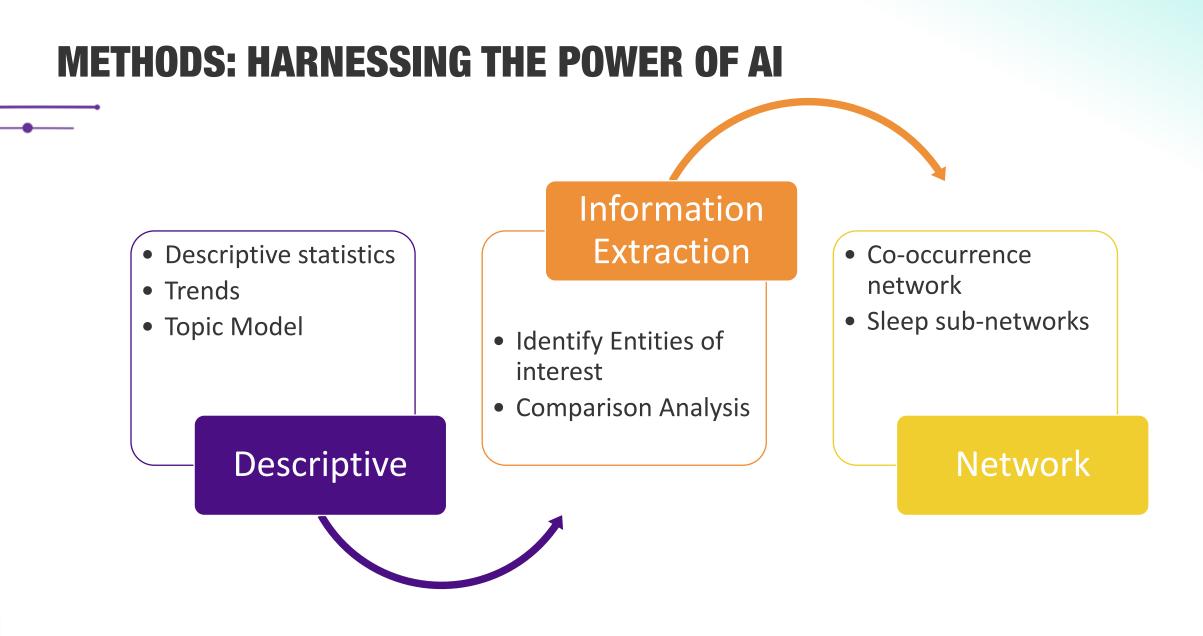
Harmony completes enrollment (June 2022)



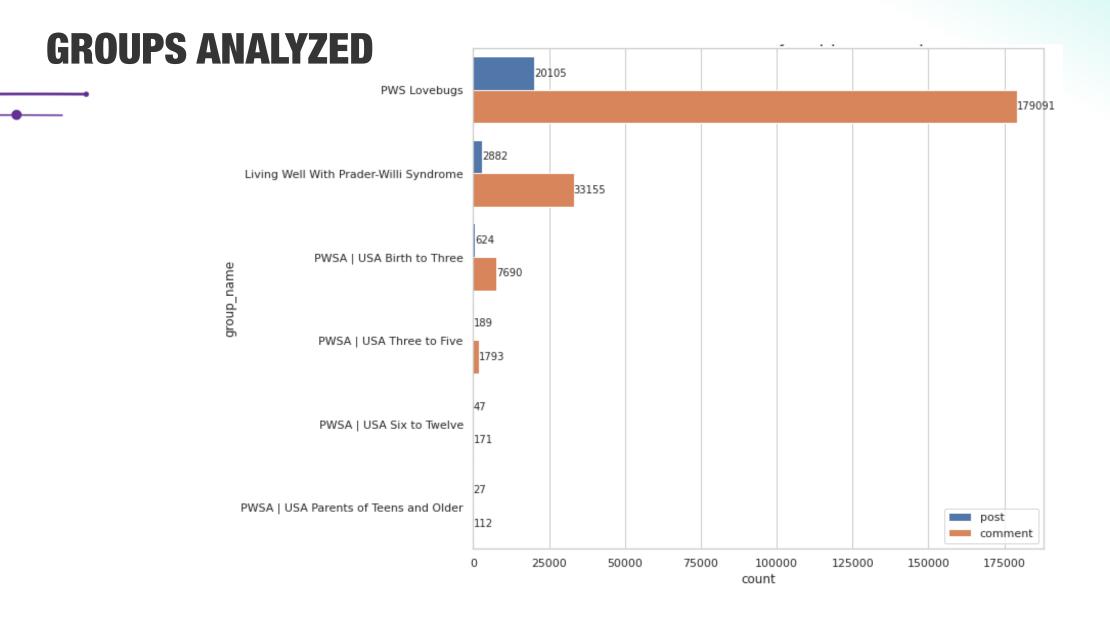


DATA SOURCES & METHODS







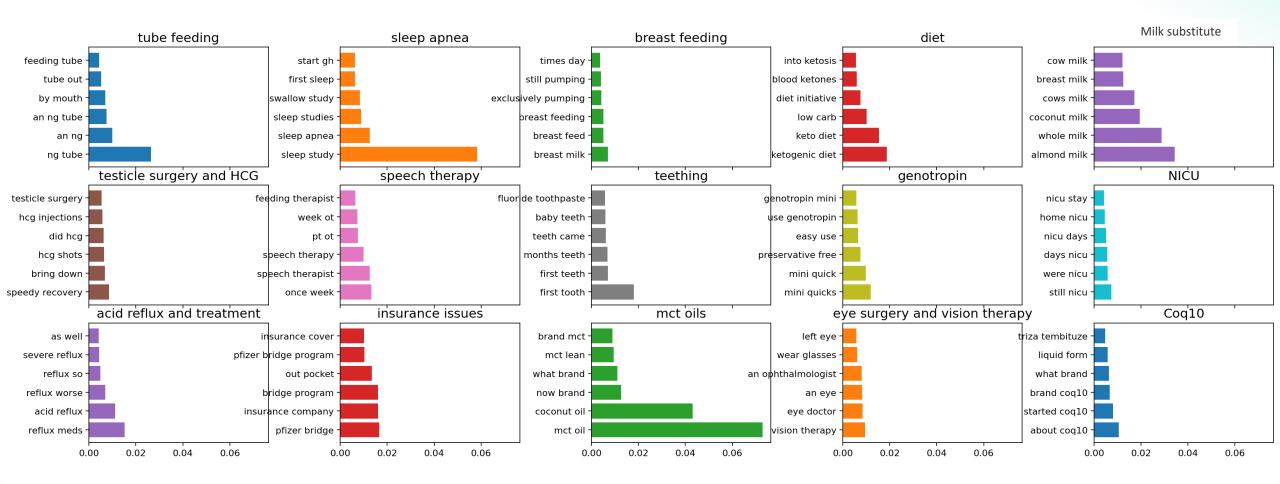




DATA REVIEW: TRENDS AND TOPCS

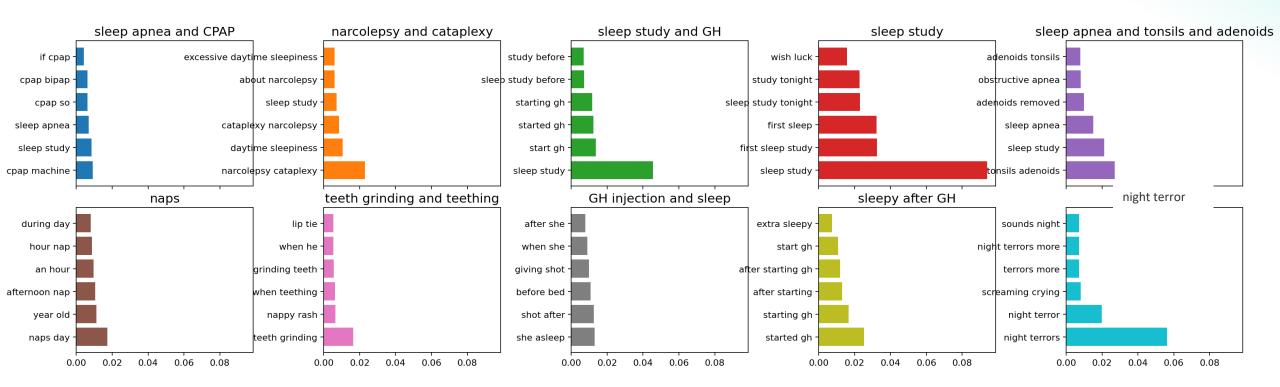


TOP 10 ALL TOPICS DISCUSSED

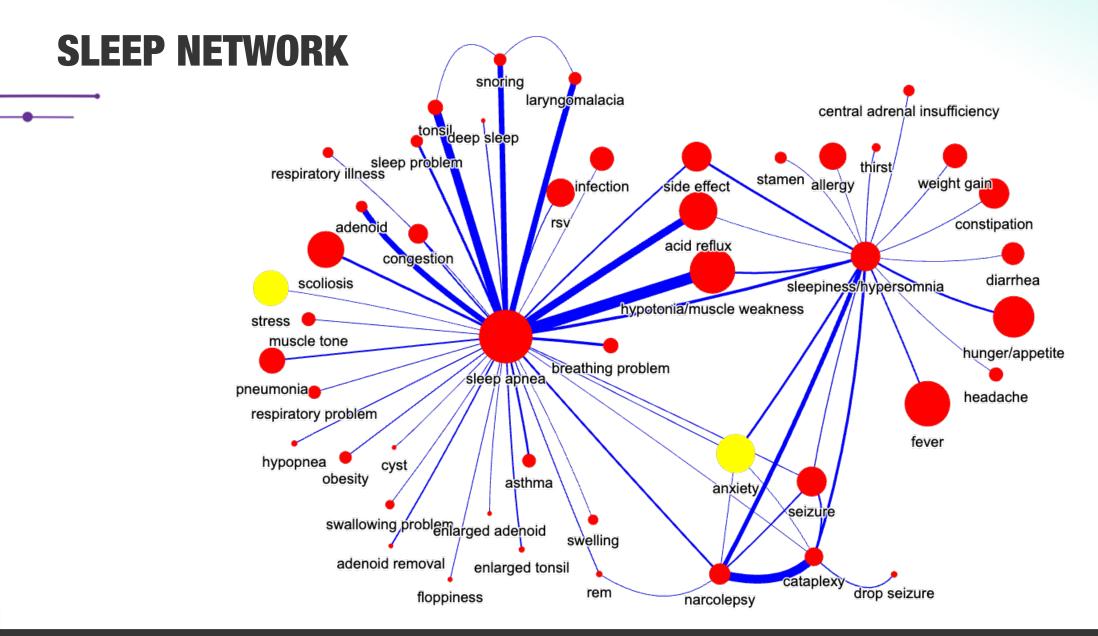




TOP 10 SLEEP TOPICS DISCUSSED

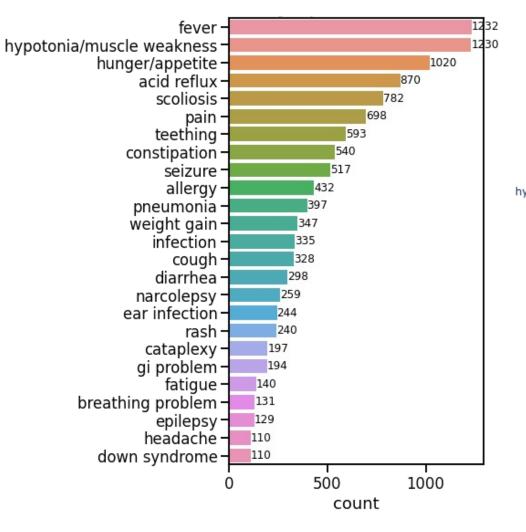


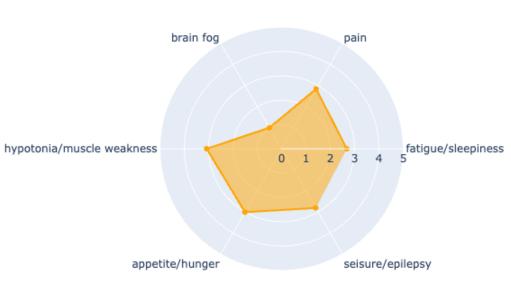






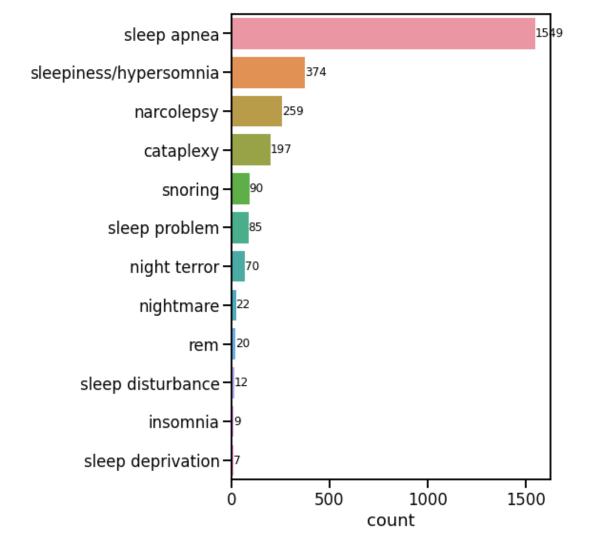
SYMPTOMS DISCUSSED





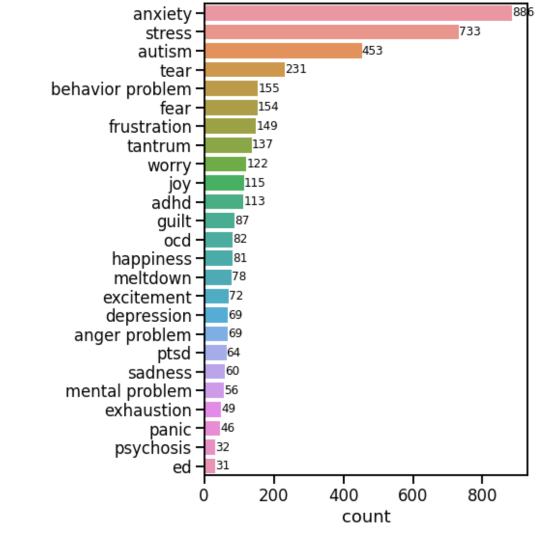


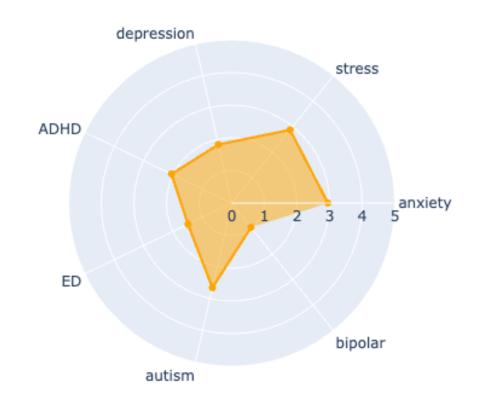
SLEEP CONDITIONS DISCUSSED





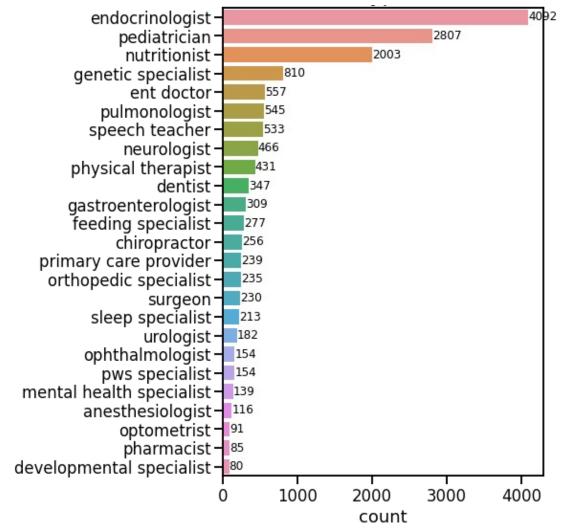
MENTAL HEALTH TOPICS DISCUSSED





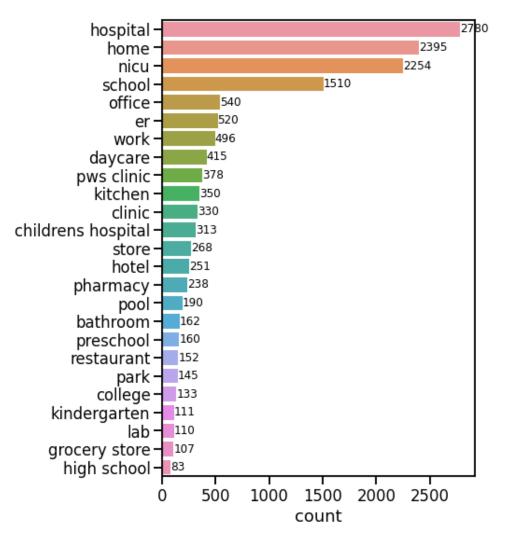


PROVIDER TYPES DISCUSSED



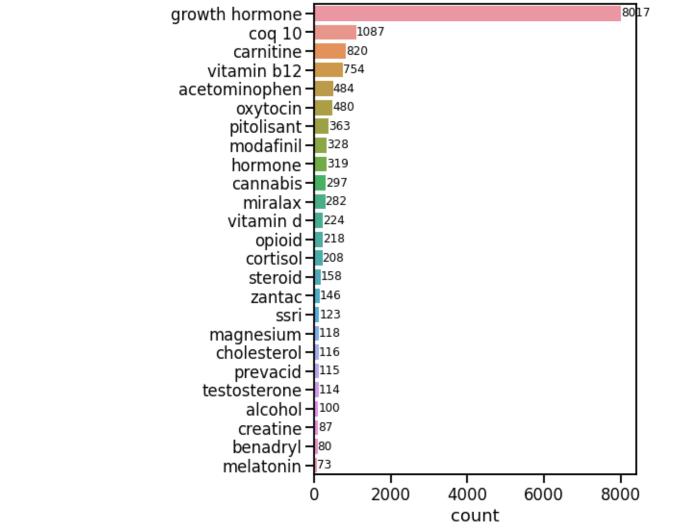


LOCATIONS DISCUSSED





SUBSTANCES DISCUSSED





THANK YOU!

Matthew Horsnell, Community Director mhorsnell@trend.community



