

Nuvance Health

Innovation in Medicine

The Rise of the Machines



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Neuroscience Institute

**The John and Joanne Patrick Endowed Chair
For Advanced Technology in Neuroscience^e**



Today's Agenda

1. Telehealth
2. Machine learning/AI
3. Cool Items
4. How does this affect me?
5. Questions

TOP FIVE REASONS TO CONSIDER TELEMEDICINE



BETTER
ACCESS



COST
EFFECTIVE



CONVENIENCE



MILLENNIAL
DEMAND



REDUCED
ABSENTEEISM





Common Misconceptions

- We can't do this
- Patients will not like this
- We are not ready for this

PATIENT-CENTERED CARE



Concept by Sachin Jain, Art by Matthew Hayward © 2014 All Rights Reserved

Reality

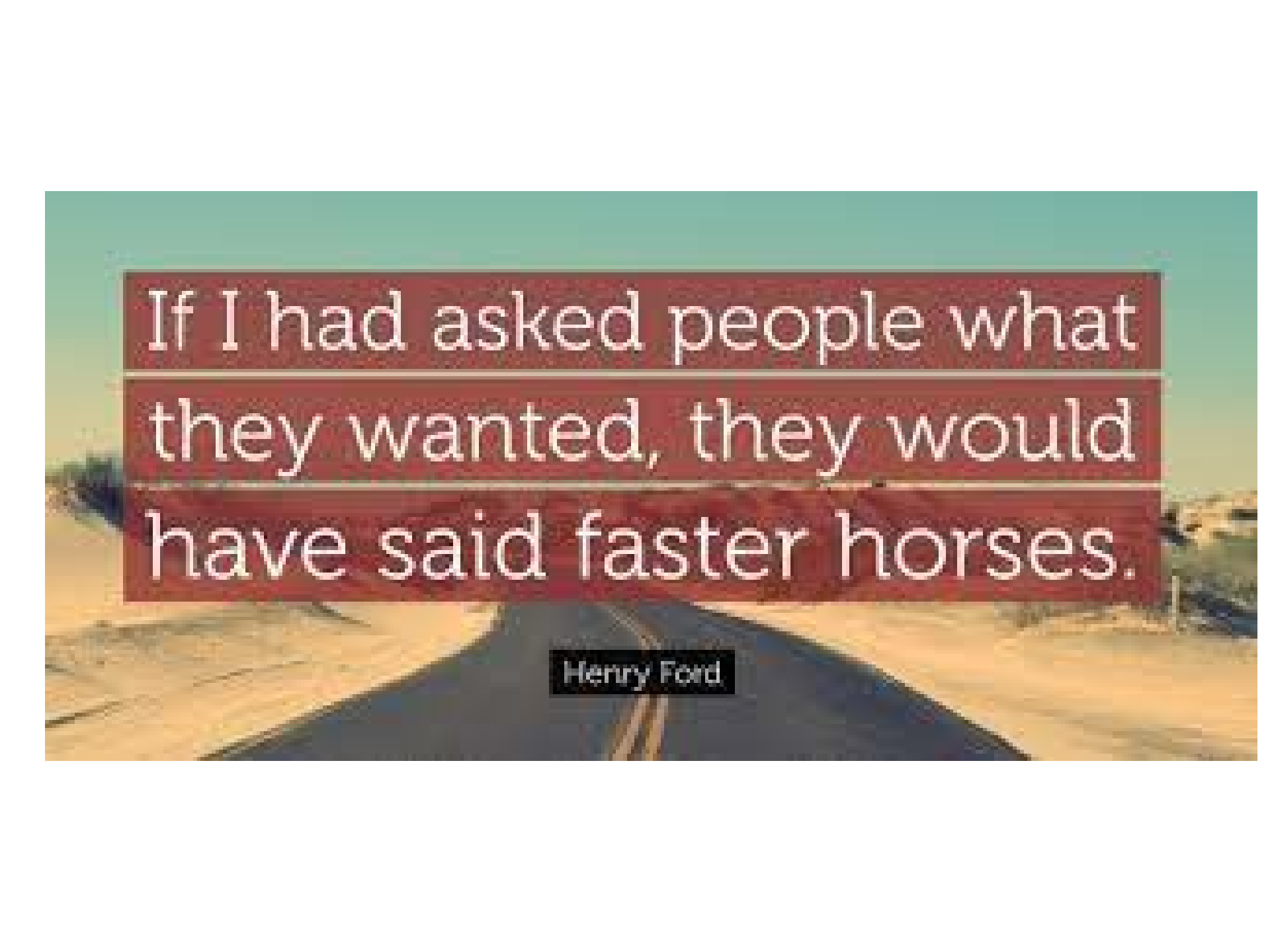


- Patients do accept telemedicine, especially in an emergency situation
- Properly implemented, telemedicine will enhance patient care and quality
- Even small teams can implement telemedicine successfully







A desert landscape with a road leading towards a horizon under a teal sky. The road is dark and curves slightly to the right. The desert floor is sandy and light-colored. In the distance, there are some low-lying hills or mountains. The sky is a solid teal color.

If I had asked people what
they wanted, they would
have said faster horses.

Henry Ford



Yates
Photog.

"Eye-bye Bill"

Farmers Hotel

Annapolis Royal, N.S.

Wm H Edwards Propr.

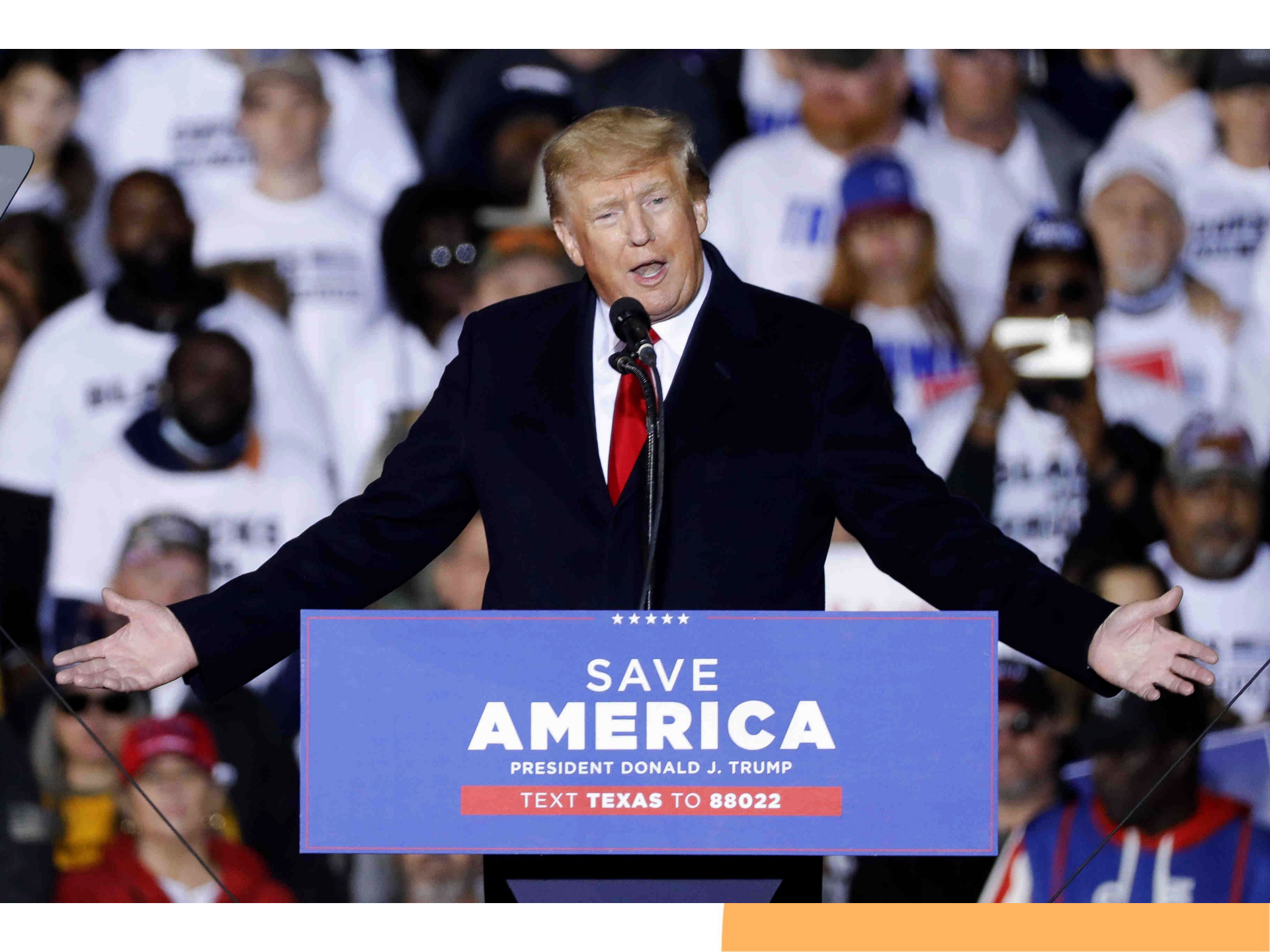
HERE I FRIG
THE OLD MOTOR.COM











★★★★★

SAVE AMERICA

PRESIDENT DONALD J. TRUMP

TEXT **TEXAS** TO **88022**

Artificial Intelligence

- Artificial intelligence (AI) is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence.



- Machine Learning



Machine Learning

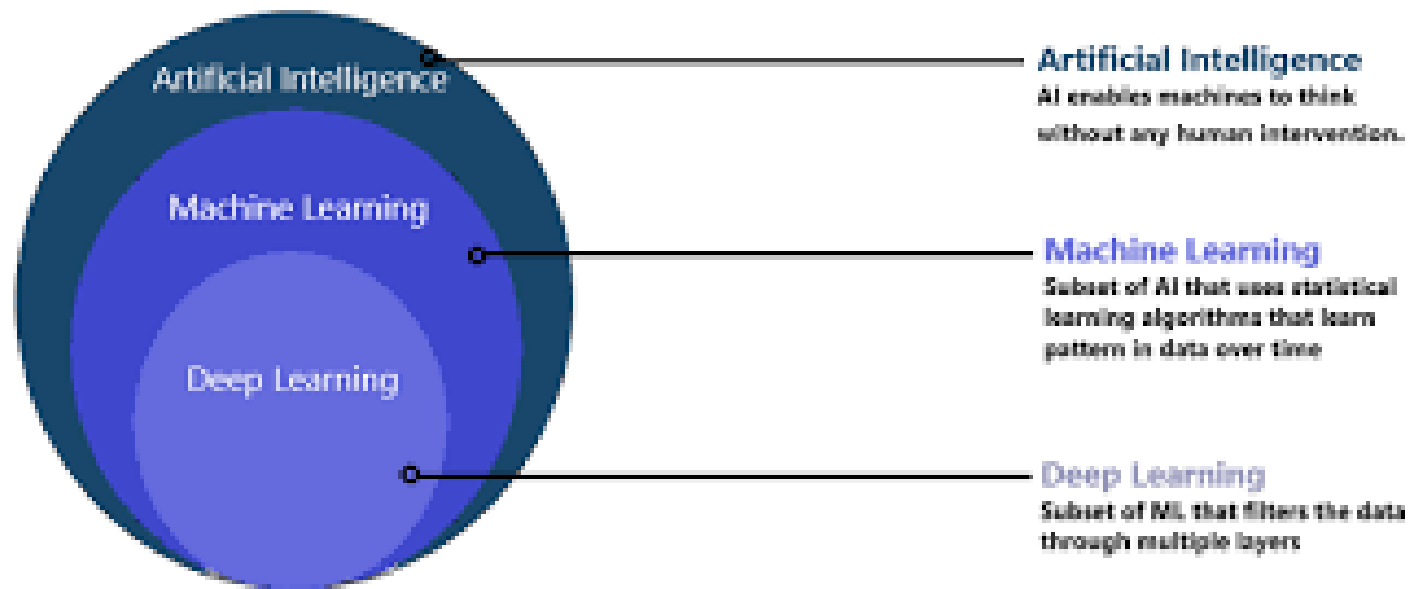
- Machine learning is a subfield of artificial intelligence, which is broadly defined as **the capability of a machine to imitate intelligent human behavior**. Artificial intelligence systems are used to perform complex tasks in a way that is similar to how humans solve problems.



Deep Learning

- Deep learning utilizes both structured and unstructured data for training. Practical examples of deep learning are Virtual assistants, recommendation engines, and image recognition.





APPLICATIONS







Migraine Headache



The prevalence and burden of self-reported migraine and severe headache in the US adult population is high, affecting roughly 1 out of every 6 American and 1 in 5 women over a 3-month period

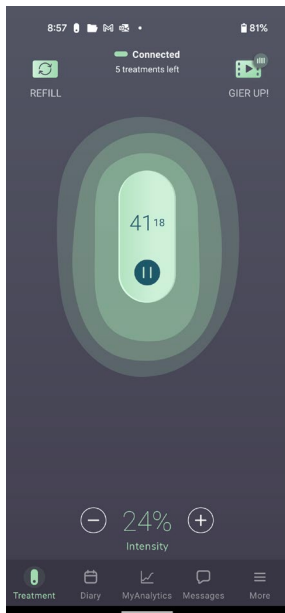
Nerivio:

Data Platform & Clinical Applications



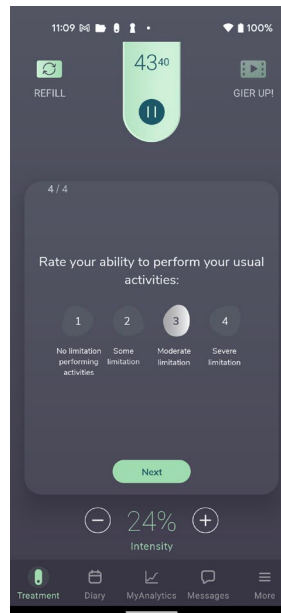
In-app diary personalized Data Collected

Treatment information: Automatic



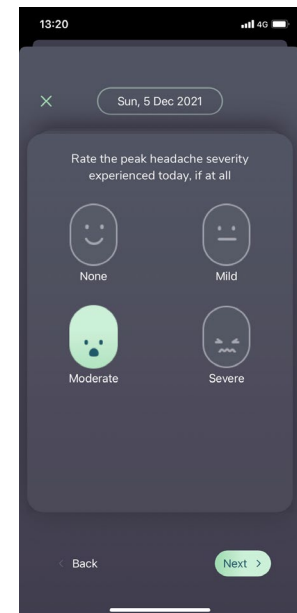
100% of treatments

Migraine Attack information: Baseline and 2 h



25% of treatments

Disease Management information: Daily Headache Diary



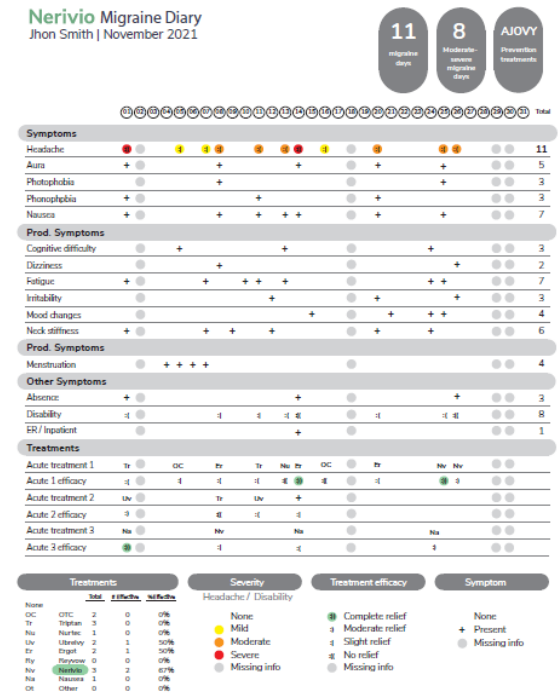
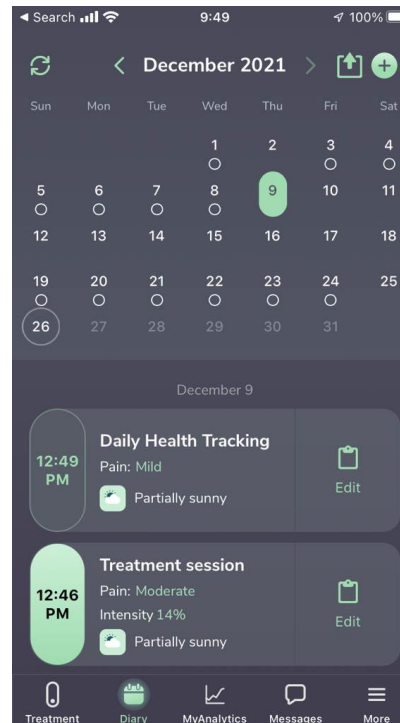
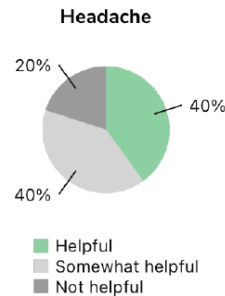
Data is stored in a secured HIPAA-compliant server

theranica

In-App Diary Personalized Data

Personalized migraine data:

- Summarized within the app
- Can be shared with the provider
- De-identified can be monitored by Theranica



Data is stored in a secured HIPAA-compliant server

theranica

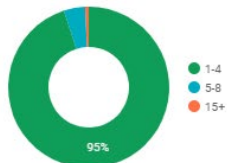
Nuvance



* at least 1 treatment

* Patients with at least 1 treatment

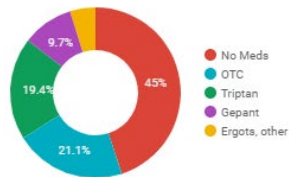
Patients by Monthly Treatments



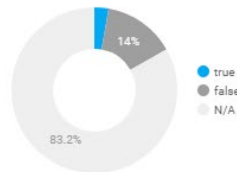
* Nonfilterable, except Date and Patient ID

* Patients with at least 2 treatments

2H Medication Use



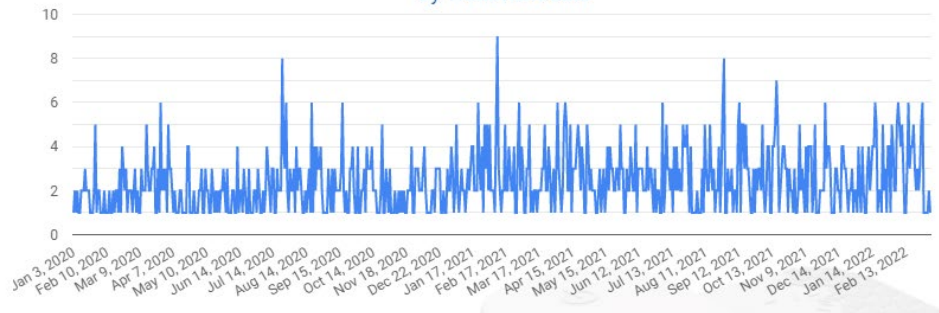
Aura at Baseline



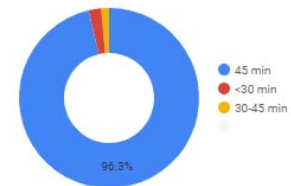
Filters

- HCP Full Name
- Clinic Name: Nuvance Health Ki... (2)
- Clinic Region (for NAMS)
- UDI
- Patient ID
- Baseline Pain Level
- 2H Pain Level
- Source: UpScript Telemedicine, ... (9)
- userid

Treatments by Treatment date

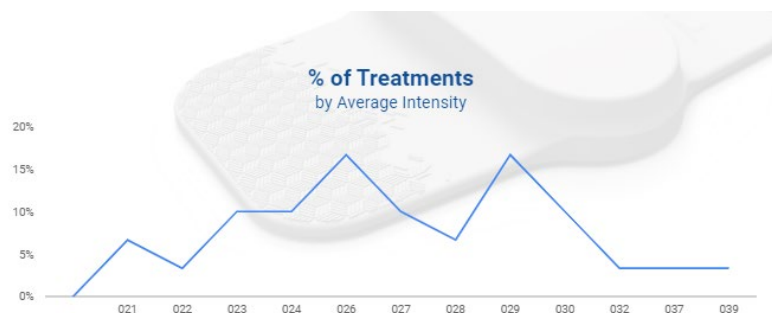


Treatments Duration

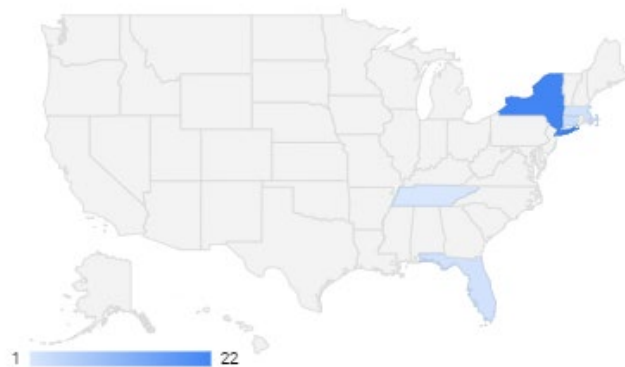


Nuvance Patients

theranica



Treatments by Treatment Location
United States



Example 2:

- Consistent user
- Stimulation intensity within the recommended range
- **Many more treatments in New York (22/30) than in Florida (2/30) or Tennessee (1/30)**
- **Is this weather related? Or short visits?**

Provider can recommend patient to fill questionnaires to gain personal migraine insights

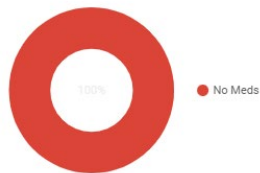


Patients by Monthly Treatments



* Nonfilterable, except Date and Patient ID
* Patients with at least 2 treatments

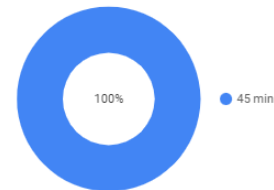
2H Medication Use



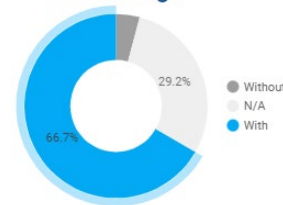
Aura at Baseline



Treatments Duration



GIER Usage



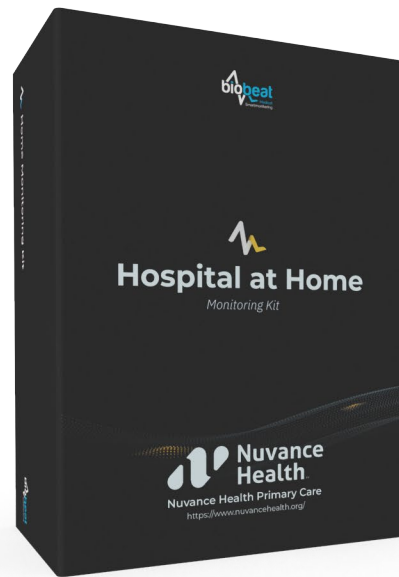
Pain Transitions
By Treatments

	Baseline Pain Level	2H Pain Level	Patients	Treatments ▾	Ratio of Total Treatments
1.	Moderate	Mild	1	3	37.5%
2.	Severe	Mild	1	2	25.0%
3.	Severe	Moderate	1	2	25.0%
4.	Severe	No Pain	1	1	12.5%

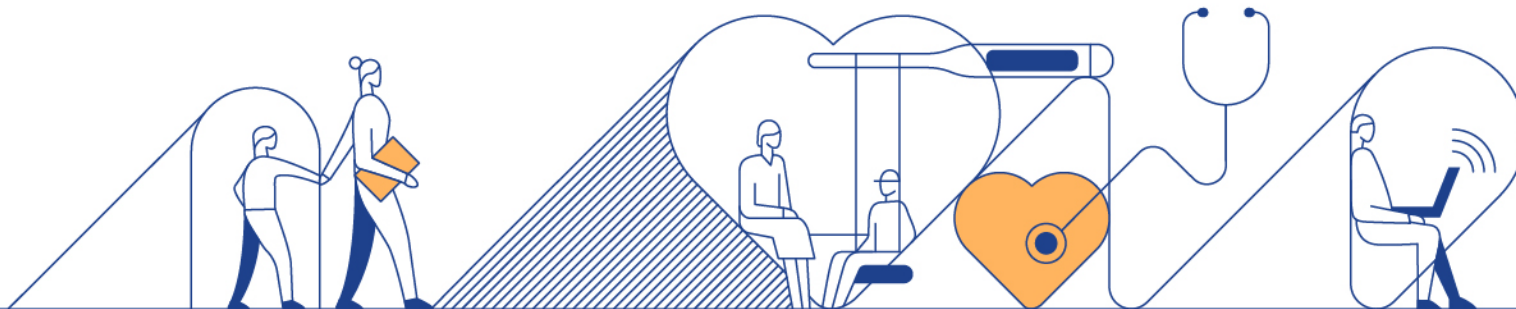
Example 3:

- Nerivio provides this patient pain relief
- The patient does not use rescue drugs when treating with Nerivio
- Patient uses GIER behavioral therapy

Nerivio reduces
medication intake

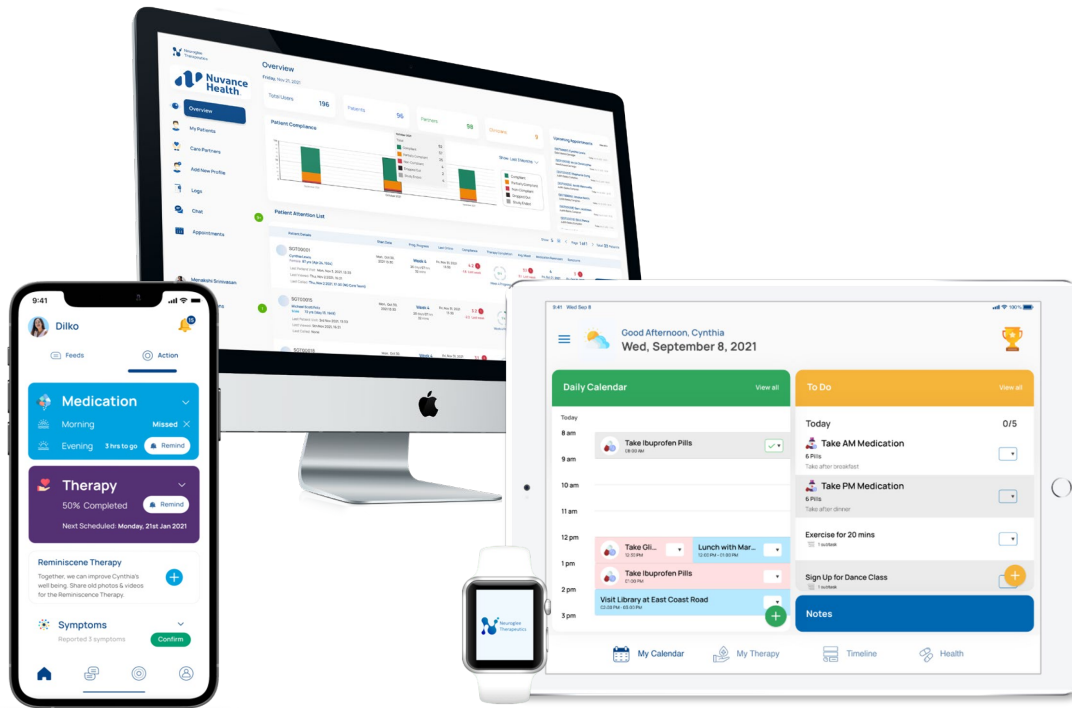






Introducing Neuroglee-Connect™

A holistic end-to-end service for remote management of patients with Mild Cognitive Impairment (MCI) to improve clinical and economic benefits...



MONITOR CONTINUOUSLY,
ENGAGE VIRTUALLY,
and TREAT REMOTELY,
to optimize outcomes and
reduce costs

Neuroglee Connect™ – a virtual care model

A holistic end-to-end service using Neuroglee Connect for remote management of patients with Mild Cognitive Impairment (MCI) to improve clinical and economic benefits...

Virtual, at-home monitoring & Intervention



Hospital System

Patients are referred



Deep Learning-Prediction





biofourmis

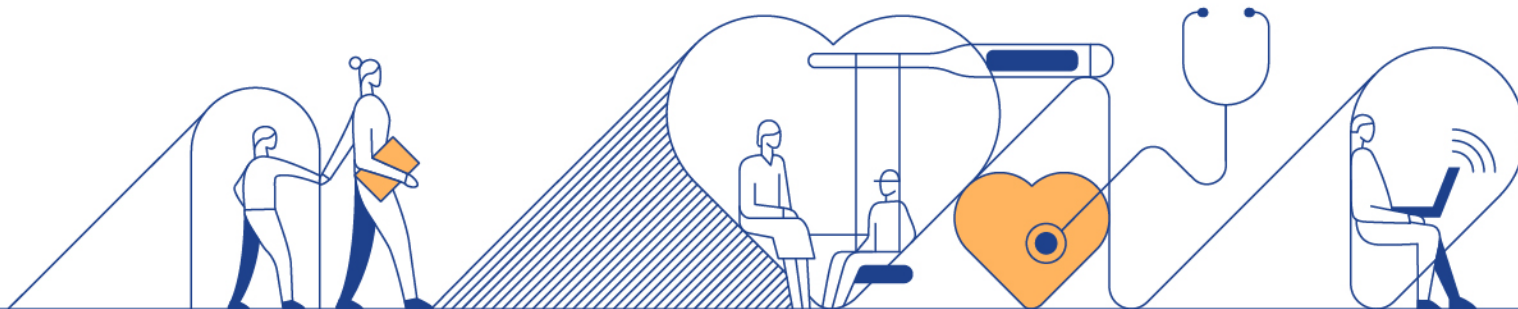




ElliQ is designed as a proactive AI Care Companion that engages older adults in daily routines and supports their overall lifestyle. Unlike a passive device, ElliQ initiates conversation, provides reminders, and encourages healthy habits.

Through its ability to build rapport, ElliQ reduces loneliness and fosters independence while connecting patients with family, caregivers, and healthcare teams. Its design emphasizes lifestyle integration—supporting wellness, safety, and social connectedness in the home environment.





Thank you

