2024
CHILD NEUROLOGY SOCIETY
53rd ANNUAL MEETING
Nov. 11-14, 2024 • San Diego, CA

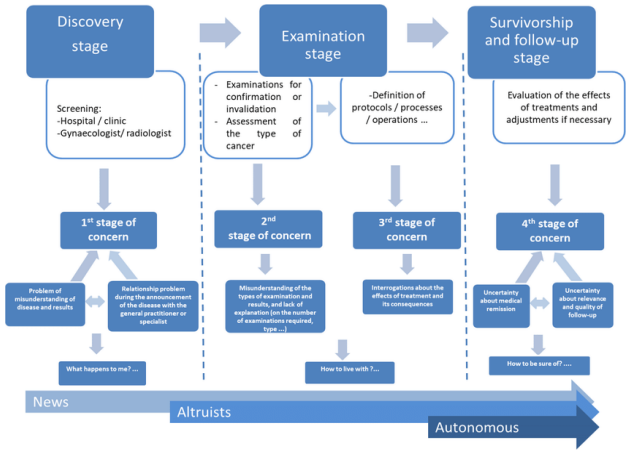


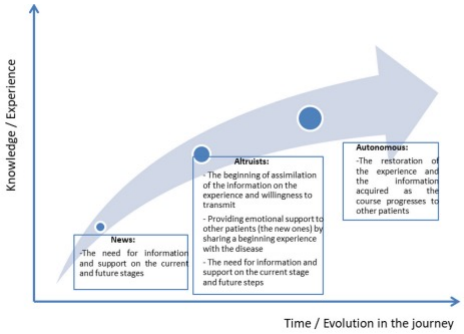
Using Technology to Make Care Easier

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First… A Challenge!

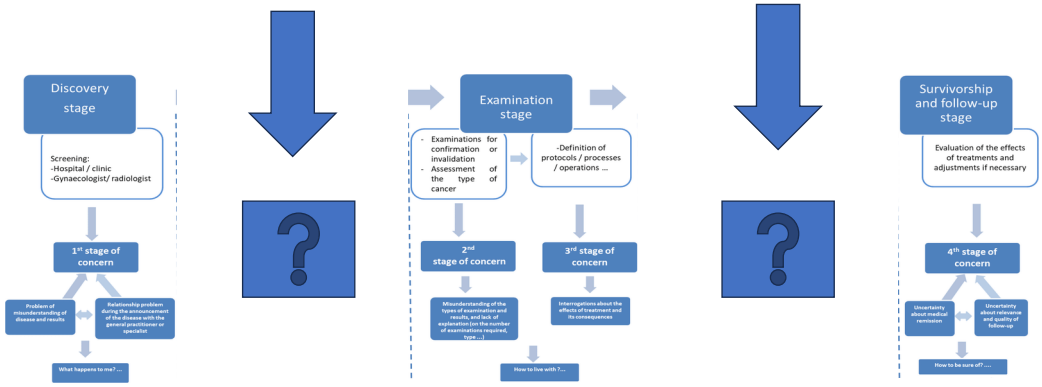
Healthcare Pathway Through Patients' Experience and Profiles





Note: this is from Breast Cancer publication, BUT insert any disease state for same concept

BUT WHAT IS HAPPENING HERE?

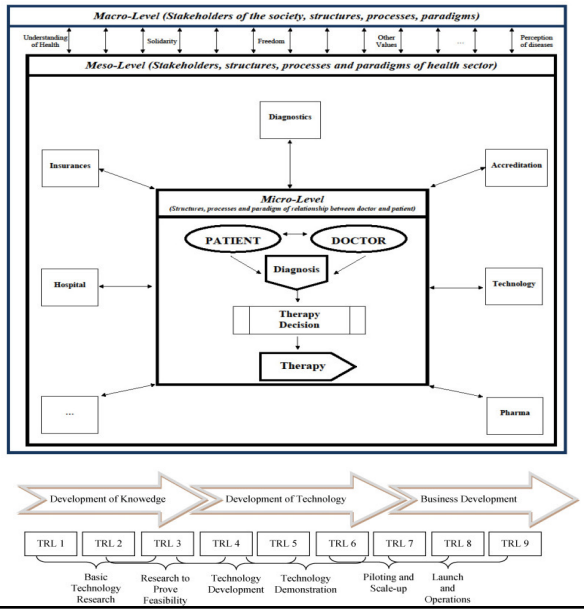


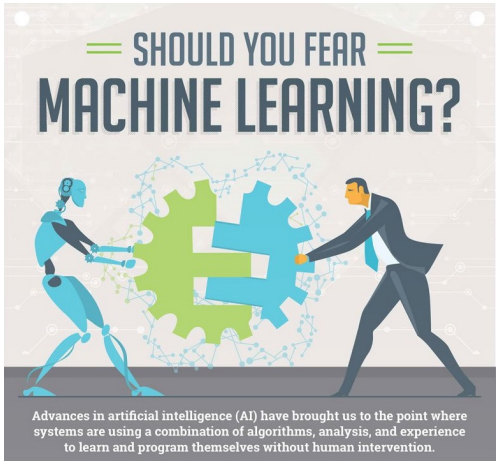
What information and How is it delivered?

Personalizing the information to the journey?

Social support and beyond?

Is There Something Better?

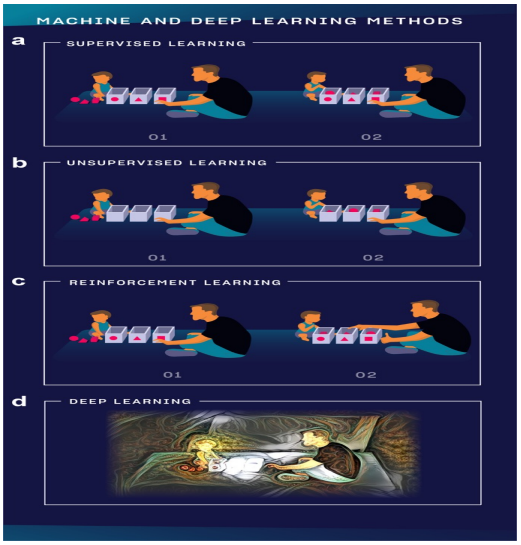


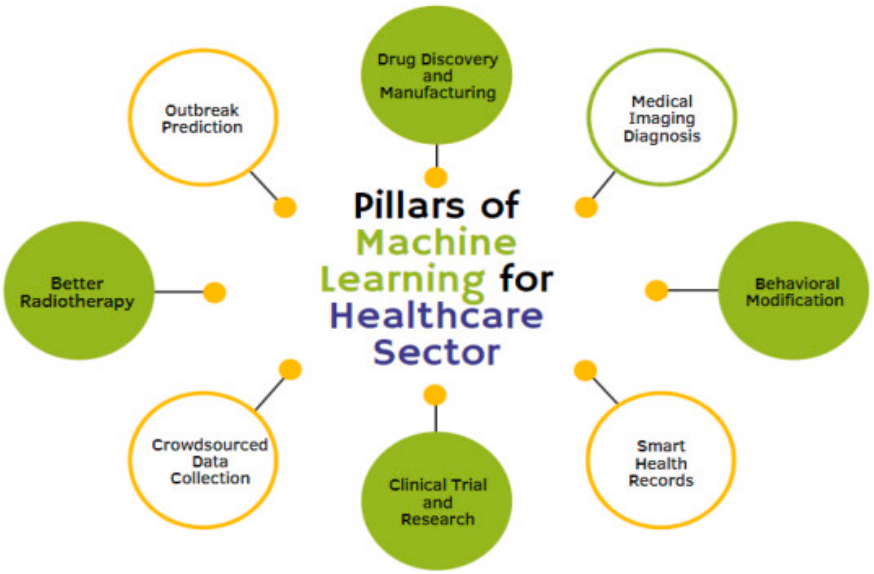


Now… The Opportunity

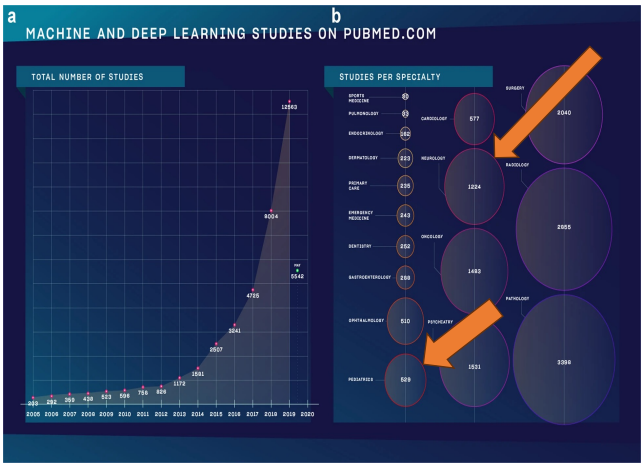
Developmental Milestones of Making Care Easier

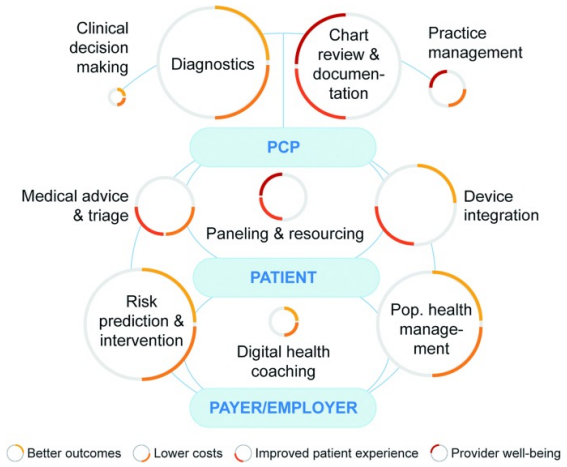
- **Supervised Learning:** Developer knows what to be taught to AI and defines the expected answer and AI learns to excel at the task.
- **Unsupervised Learning:** Developer does not influence but observes the conclusions drawn from solving the task.
- **Reinforcement Learning:** Developer knows what he wants to teach but does not define step-by-step. Then gives feedback after the task is completed and new strategy leading to desired outcomes is redemonstrated.
- **Deep Learning:** Analyze vastly more complex data sets from images and videos to a sort of human reasoning. It is multi-layered and could mimic how neural networks in the brain work.





Growing Evidence… But Clinically Useful?





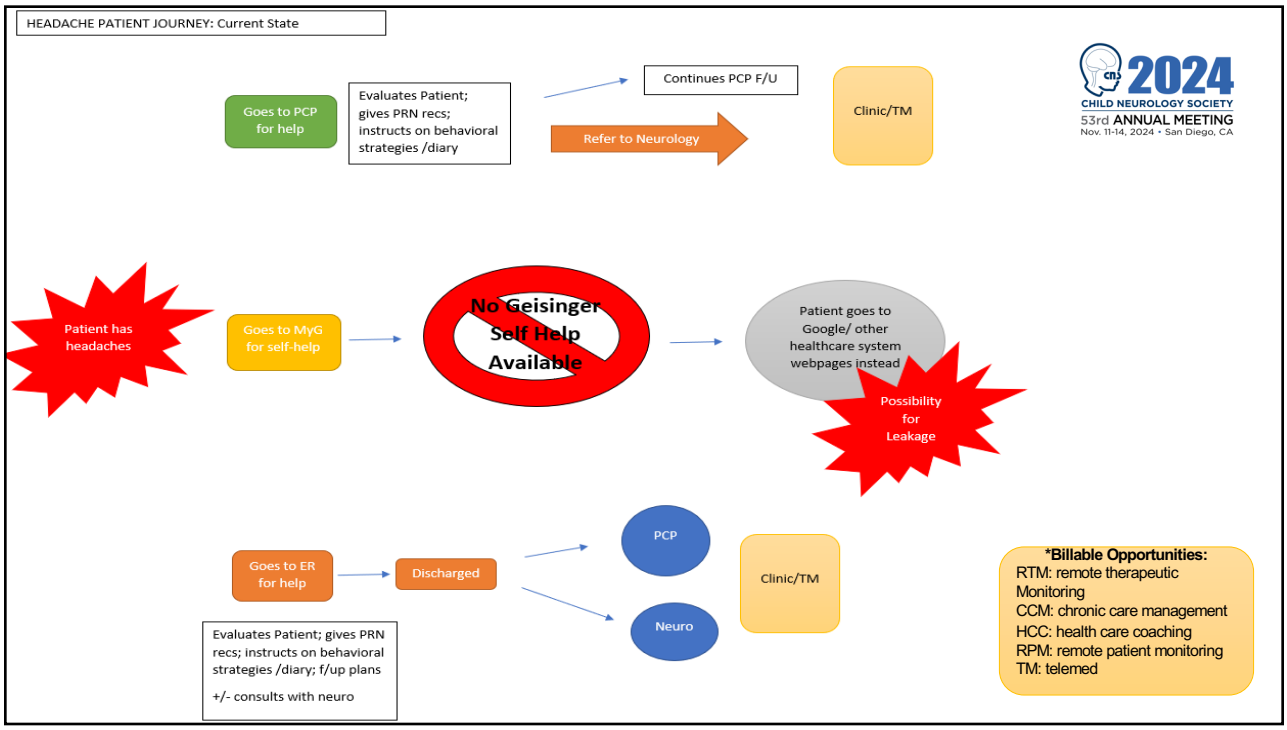
Continuously Changing Care

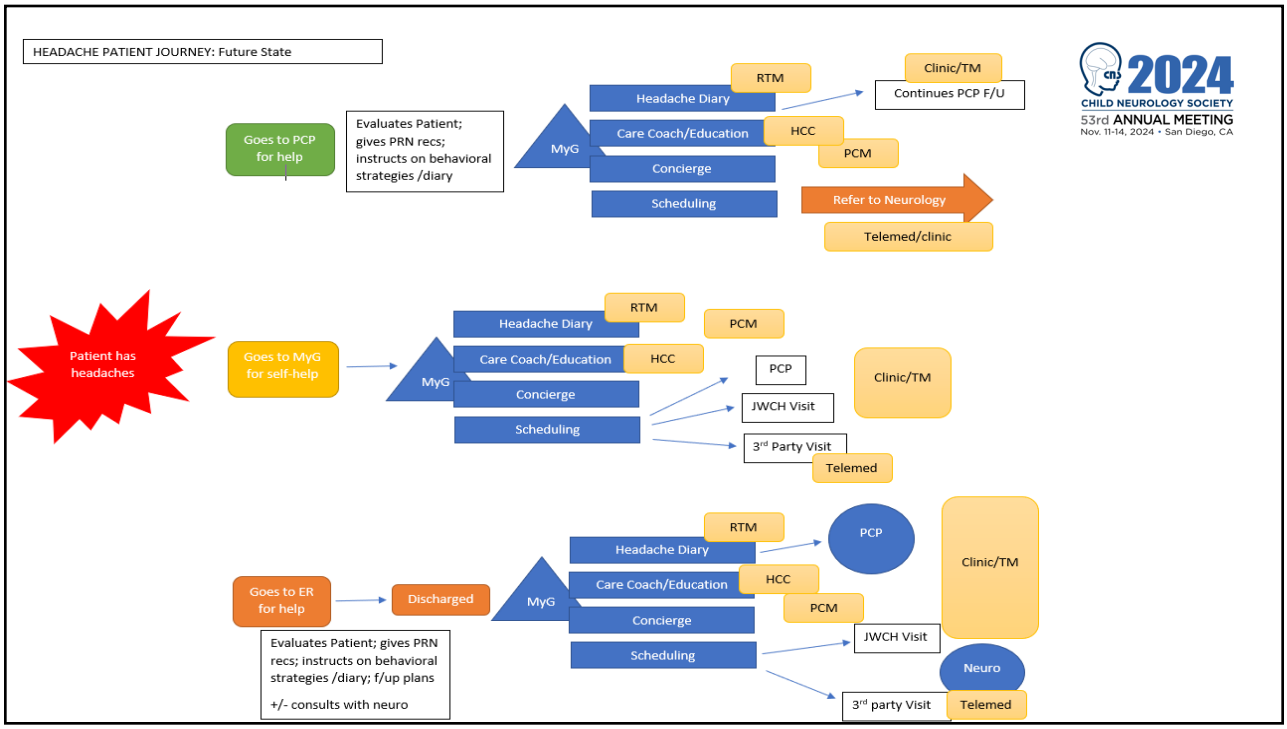
Approaching a Personalized Approach to Longitudinal Care Journeys

A Rapid Review of Possibilities

Headache Journey

Episodic Transactions to Continuous Care and Self-Efficacy Development


HEADACHE PATIENT JOURNEY: Current State
Goes to PCP for help
Evaluates Patient; gives PRN recs; instructs on behavioral strategies /diary
Continues PCP F/U
Refer to Neurology
Clinic/TM
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Patient has headaches
Goes to MyG for self-help
No Geisinger Self Help Available
Patient goes to Google/ other healthcare system webpages instead
Possibility for Leakage
Goes to ER for help
Discharged
PCP
Neuro
Clinic/TM
Evaluates Patient; gives PRN recs; instructs on behavioral strategies /diary; f/up plans
+/- consults with neuro
*Billable Opportunities:
RTM: remote therapeutic Monitoring
CCM: chronic care management
HCC: health care coaching
RPM: remote patient monitoring
TM: telemed

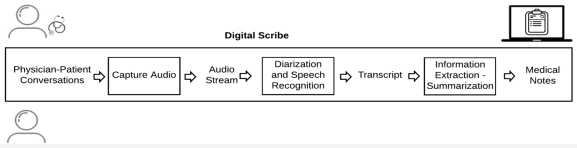

HEADACHE PATIENT JOURNEY: Future State
Goes to PCP for help
Evaluates Patient; gives PRN recs; instructs on behavioral strategies /diary
MyG
Headache Diary
Care Coach/Education
Concierge
Scheduling
RTM
HCC
PCM
Clinic/TM
Continues PCP F/U
Refer to Neurology
Telemed/clinic
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Goes to MyG for self-help
PCP
JWCH Visit
3rd Party Visit
Telemed
Clinic/TM
Goes to ER for help
Discharged
Neuro
Evaluates Patient; gives PRN recs; instructs on behavioral strategies /diary; f/up plans
+/- consults with neuro

Ambient Listening AI Scribe

The Doctor Will "Listen" To You Now

Current State AI Scribe

- Software listens to the patient-provider interaction, AI translates conversations into comprehensive chart notes
- Time savings and operational efficiency
- Improved billing and PA approvals
- Decrease in physician burnout and improved patient interactions
- Reduction of after-hours charting
- Cultural and communication improvements within medical teams



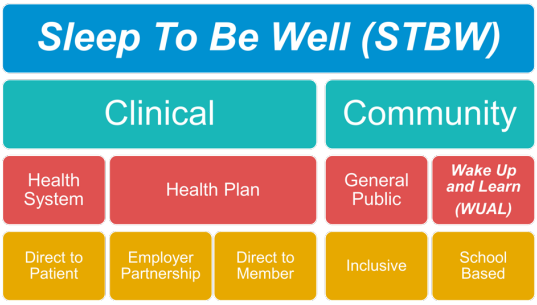
	AI Medical Dictation	AI Medical Transcription
Main Purpose	Converts spoken words into text, allowing physicians to dictate notes (speech-to-text)	Converts various forms of medical information (natural conversation, dictated notes, etc.) into structured, formatted medical notes and other docs
Main Benefit	Speeds up charting by removing the need to physically type notes	Speeds up charting by using artificial intelligence to automatically generate content for chart notes
Input Method	Intentional, non-natural speech; direct verbal output	Various input methods, including natural conversation between physician and patient, and intentional dictated speech

Future State AI Scribe

- Improved subspecialty documentation
- Place diagnosis codes and orders that were discussed during visit
- Suggest billing codes based on MDM
- Learns pattern recognition for diagnoses and treatment plans
  - Transdisciplinary impact
  - Improved recognition of rare disease
  - Prompted differential diagnosis consideration reminders
  - Pro-active reminders/delivery of education for side effects, or
- Predictive modeling
  - Improved recognition of high risk clinical patterns
  - Suggest care modifications based on personalized course
- Provide asynchronous communication support
  - MyChart communications
  - Behavioral nudges
  - New symptom navigation

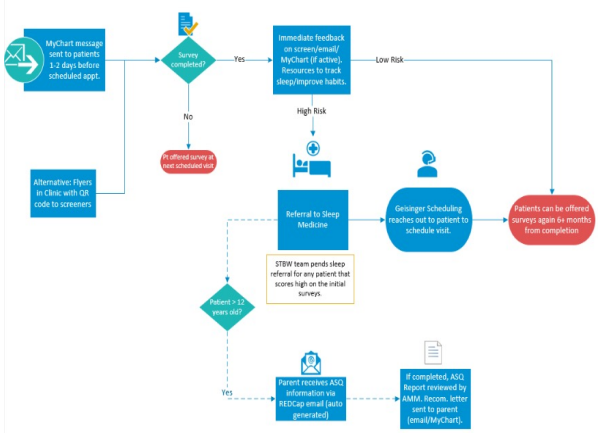
Sleep to Be Well in Child Neurology

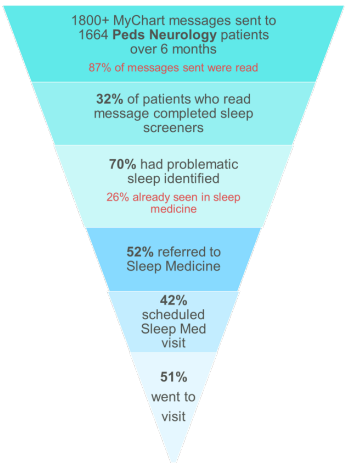
Using All 24 Hours to Provide Individualized Holistic Care



A Remote Command Center Approach:

Considering the Whole Person Across the Whole Day





Summary

- **AI will NOT replace you… *Doctors who USE AI WILL!***
- Start from the patient journey and identify care gaps & opportunities
- Consider the lens of the patient before the ease of your position
- Avoid unique point solutions
- Embrace multipurpose, transdisciplinary valued solutions
- Pilot like it is a research study. Learn. Revise. Re-pilot.
- Consider remote command center models and team-based practice


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