



About Rady Children's



Fast Facts FY2023

Beds: 515

Revenue: \$1.5B

Capitated Lives: 250,000+

Employees: 6,000

Physicians: 800+ affiliated

400+ subspecialists

Nurses: 1,500+

Admissions: 17,000+

Surgeries: 17,000+

ED and UC Visits: 136,000+

Outpatient Specialty Visits: 280,000+

Outpatient PCP Visits: 470,000+

Region's provider of choice and safety net

Technology Investment Framework

Informational

Strategic

Transactional

Infrastructure

Telemedicine





Why it matters

No longer "leading edge", now a "must have"

Patient convenience

Lower cost care

Extends geographic expansion

Extends MD career options

Our Foundation

Zoom-Epic integration ~10% of outpatient volume



What we need

Peripheral device integration

Multi-State licensure

Continued payment parity

Continued training / optimization





Chatbots



Why it matters

Faster access / timely response

Personalization and timeliness leads to patient satisfaction

Lower costs



Our Foundation

Gastro transitions of care pilot from 2015

Oliva job applicant scheduling

Aisera Service Desk Co-Pilot

Epic



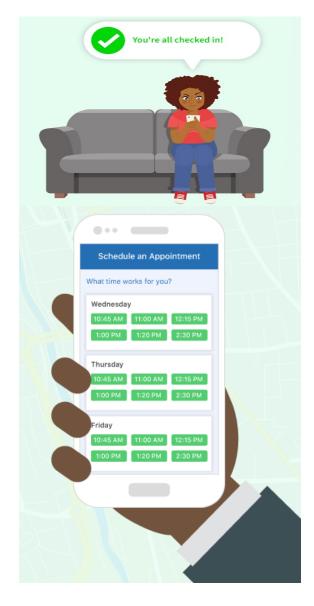
What we need

Clear use case(s)

Focused SME and IT resource(s)

Technology partner(s)

Governance



Other Robotic Process Automation (RPA)



Why it matters

Improved efficiency (high volume, clear inputs/outputs, well defined/steady processes)

Consistency (error reduction)

Focus work on higher cognitive tasks (job satisfaction / dissatisfaction?)



Our Foundation

Claim status checking and Retro-authorizations RPA (RCHSD / R Systems)

Data and interface job scheduling (RCHSD)

Genomics pipeline (RCHSD/RCIGM)



What we need

Governance
Standard toolset
Operational champion(s)
Prioritization
SME & IT resources

6 BENEFITS OF IMPLEMENTING RPA IN HEALTHCARE

PROCESSING COST

UlPath reports the success story of implementing RPA in a hospital that needed to increase operational control in order to improve patients' experience. Automating revenue cycle functions like claims or billing, for instance, resulted to other these control of the control

2 STRONGER BILLING CYCLE

Accounts payable and data digitization processes can be automated by means of RPA, thereby improving billing efficiency. By upgrading administrative processes, healthcare companies can significantly economize labour

3 HUMAN LABOUR COST

By passing on to robots manually-intensive tasks, healthcare professionals save time. They can use these additional time resources to produce higher-value work, b focusing on more fine-grained patient attrendance rather

4 INCREASED EMPLOYEE SATISFACTION

Craig Richardville, a pioneer of transitioning healthcare to digital industry, argues that a higher level of healthcare professionals' job satisfaction is directly linked not only with better care for the patients, but also with higher ROI

5 APPOINTMENT TURNOUT

Software robots can include several factors in patients' appointment requests: their medical histories, current diagnosis, location, insurance carrier, personal preference etc., and use them to set appointments that closely match what is most relevant for the outlients.

SUPERIOR HEALTHCARE

By saving time, eliminating the risk of human error, and by allowing the staff to focus on patients. The increased operational efficiency may also expand the applicability range of healthcare. The healthcare system could thus better obtained of memoraness.

RESULTS

MORE EFFECTIVE PATIENTS SCHEDULING

Software robots can streamline online scheduling: appointment requests, diagnosis, location, insuranc carrier, personal preferences, etc., can be gathered report, and forwarded to a referral management.

IMPROVEMENT OF THE CAR

RPA boosts data analytics and thus it makes continuous necord menitoring possible. Analysing comprehensive amounts of data increases the likelihood of more accurat diagnosis, which leads to better-tailored treatment.







Artificial Intelligence (AI) Predictive Modelling







Why it matters

Pattern recognition, enables faster insights, better care

Improved quality and safety

Improved productivity
/ focus on higher
cognitive tasks

Improved patient flow

Our Foundation

Sepsis algorithms

Mendelian Phenotype Search Engine (MPSE)

MIC Sickbay

IT infrastructure management

Juniper Mist

What we need

Leadership

SME, data science, data engineering and IT capacity

Expert partners



Artificial Intelligence (AI) Image Analysis





Why it matters

Technology advances

Quality improvement across disciplines

Efficiency gains for highly specialized, expensive SMEs

Our Foundation

Arterys

Cohesic

Merge

Siemens

3D Lab

Panopto

What we need

Clinical Champions

Investment in platforms

Technical resource bandwidth

Leadership to manage change / disruption



Artificial Intelligence (AI) Ambient Intelligence



Why it matters

Technology advances in speech recognition

Heightened Patient/Family expectations (pervasiveness of Alexa/Siri/Bixby/Google Assistant/Google Home)

Focus on patient, not keyboard
Reduce provider burnout
Gain efficiency, eliminate
scribes



Our Foundation

Basic speech recognition mModal/Nuance

Vendor space in consolidation





What we need

Learning pilots/bake-offs
Technical resource bandwidth
Clinical champions
Investment in platforms

Artificial Intelligence (AI) Generative AI









Why it matters

Documentation burden cited as contributor to provider burnout

Explosion of tools (many based on OpenAl's ChatGPT) show gains in accuracy and efficiency in text generation and summarization

Our Foundation

Microsoft 365

Microsoft Co-Pilot

Epic

Nebula

What we need

Learning pilots

Technical resource bandwidth

Clinical and non-clinical use cases

Investment in platforms

Internet of Medical Things (IoMT)







Why it matters

Lower cost setting
Increasing quality of consumer
devices

21st Century CURES



Our Foundation

Propeller Health (asthma)

Gluco Health (diabetes)

BardyDx, Cardionet, ZioPatch/iRythm (heart)

What we need

Governance / Strategy / Priorities

Leadership

Champion SMEs

CIS / Data / Integration / IT bandwidth

IoMT standards













We're piloting it

Optimizing, widespread use

2023

DIGITAL JOURNEY

Telemedicine

Chatbot

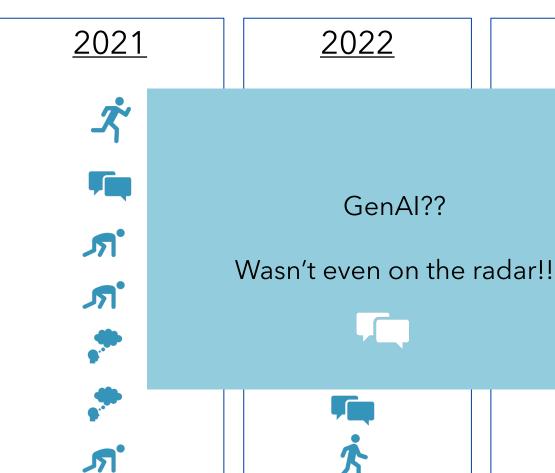
RPA

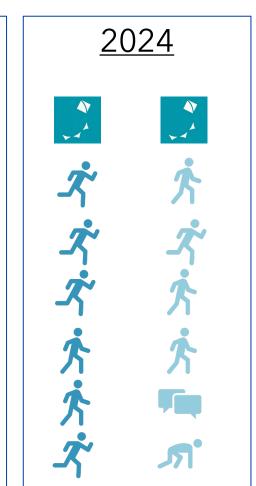
Predictive Modeling

Image Analysis

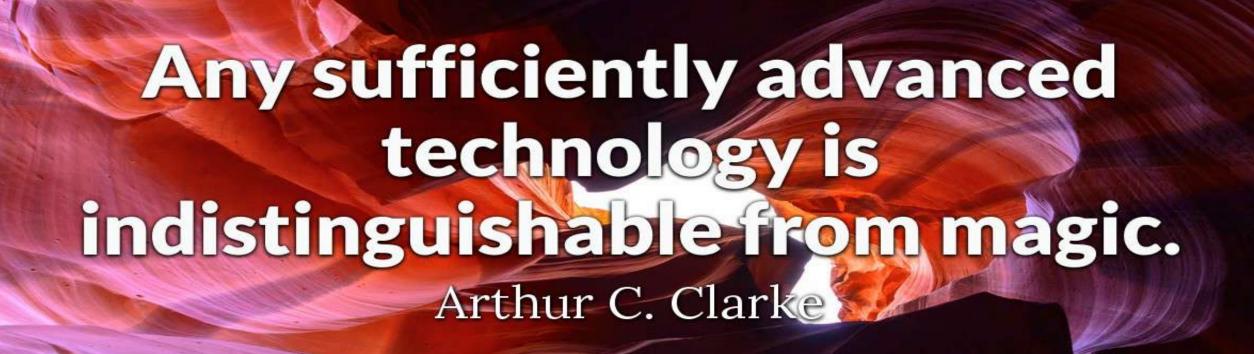
Ambient Intelligence

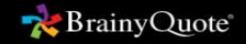
IoMT











Thank you!

