



Democratizing data in Academic Health Centers

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Where it Started



**Evaluation of PCR-based
MRSA screening program**



40,000 patients avoiding
unnecessary nasal and rectal
swabs per year



\$1.5M saved per year





“If only I had data”

THE PARADOX OF HEALTHCARE DATA

MASSIVE AMOUNTS GENERATED



30%

Of all data generated is for health

ALMOST ALL IS UNUSED



<5%

Of Health data is used in making decisions



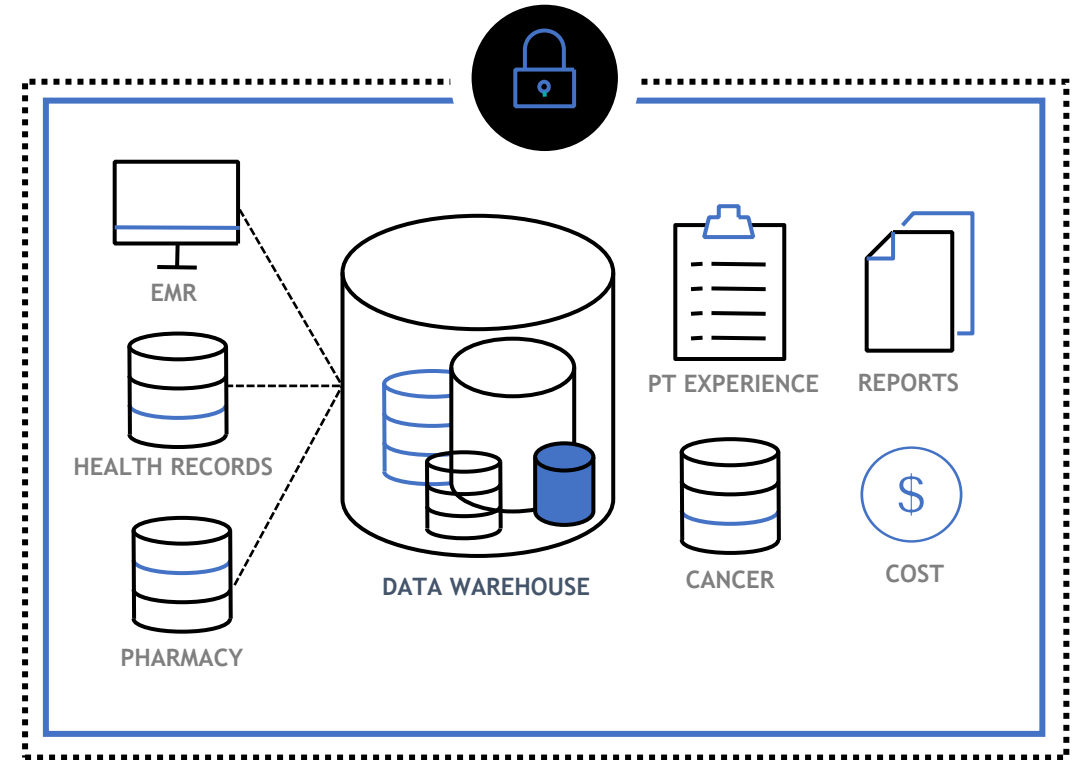
30%

Of leaders state their data are insufficiently accurate to base decisions

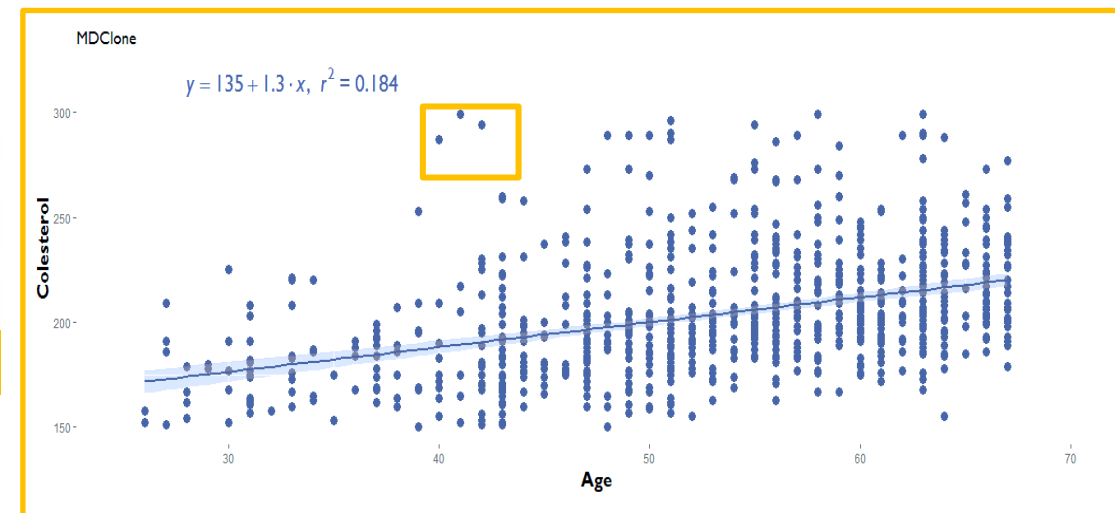
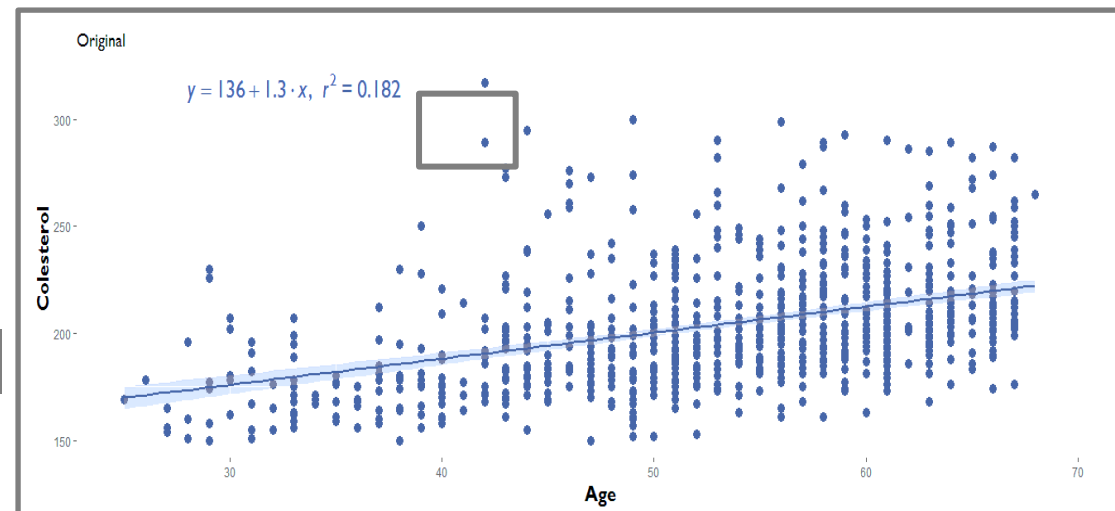


Healthcare Data Challenges

- Competing demands
- Lack of technical knowledge
- Privacy
- No budget
- Clinician resistance
- Executive resistance
- Inaccuracy of data
- Inability to obtain results in real time



Protect Patient Privacy



Patients cannot be reidentified:
No one-to-one correspondence.



Synthetic data maintain the variables of
interest and their inter-variable correlations.



No need to remove elements from
data (as with deidentified data).

MDCLONE

ADAMS Platform

Clinician-friendly interface requires no coding or database knowledge



Data is validated and organized in the way that care happens



Can iterate on study design and view data in real-time

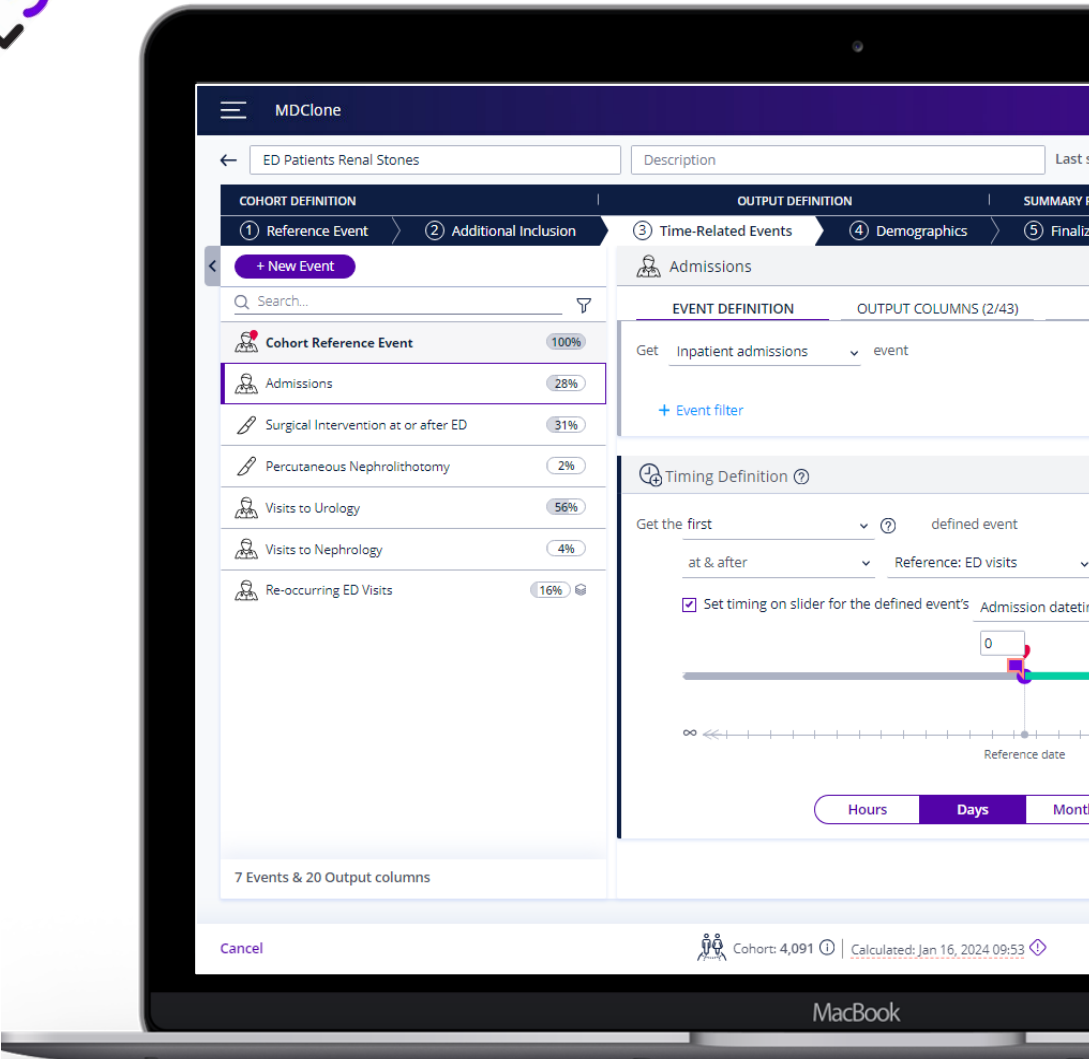


Can share data with collaborators while maintaining patient privacy



Traditional
Methods

MDCLONE



About MDCLONE

- Founded in 2016 in Beer Sheba, Israel
- 2021 & 2022 Recipient of Best Healthcare Big Data Platform by the MedTech Breakthrough Awards
- Clinical and administrative leaders using MDClone across Canada, US and Israel
- 200+ Employees across Canada, US, Israel and UK
- Recognized in Newsweek's 2024 World's Best Digital Health Companies

Centre universitaire
de santé McGill



McGill University
Health Centre



AT THE FOREFRONT
**UChicago
Medicine**

*Integrated Health
and Social Services
University Network
for West-Central Montreal*

Québec



**Intermountain
Health**



**VHA INNOVATION
Ecosystem**



Washington University in St. Louis
SCHOOL OF MEDICINE

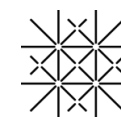
Institute for Informatics (I²)



The Ottawa
Hospital | L'Hôpital
d'Ottawa



HOSPITAL ISRAELITA
ALBERT EINSTEIN



Universität
Basel



SHEBA
Tel HaShomer
City of Health



Leumit



**HADASSAH
UNIVERSITY
MEDICAL
CENTER**



MEUHEDET
BEING HEALTHY STAYING HEALTHY



RAMBAM
Health Care Campus

Work on MDClone Demo

2025-05-09 20:16 UTC

Recorded by

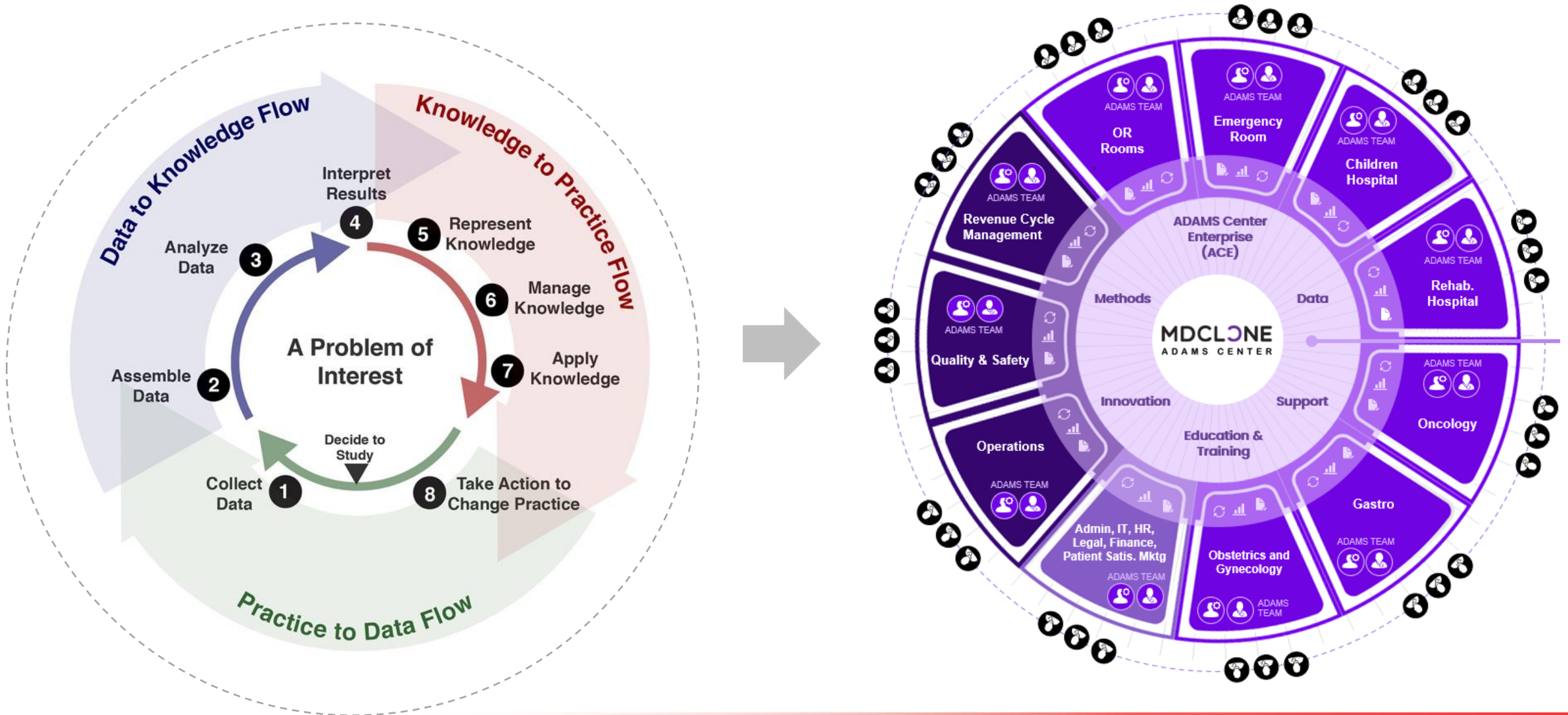
Malini Krishnamurti

Organized by

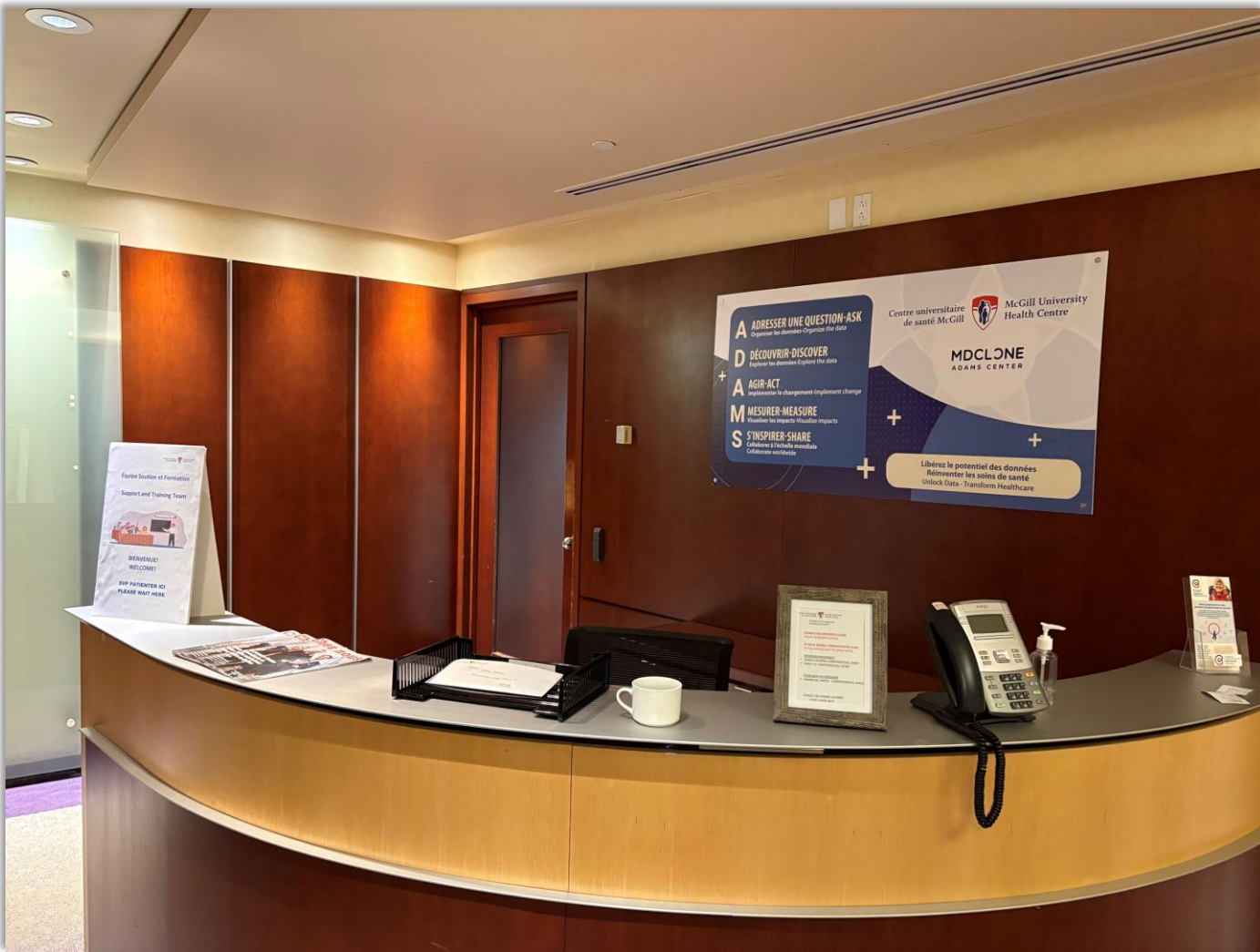
Malini Krishnamurti



Learning Health System



Learning Health System Live!



ADAMS CENTER LIVE FOR 3+ YEARS



500+
Active MDClone Users

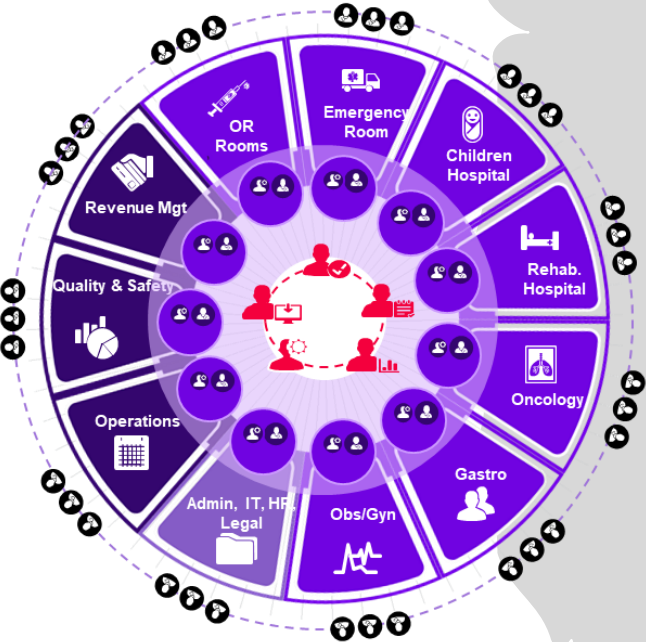
25+
Service Lines

51
Publications

"ADAMS Center profoundly changes an organization's culture. The ability for any health system to achieve excellence is rooted in what we're seeing."

(Prof. Yitshak Kreiss, CEO, Sheba Medical Center)

SELF-SERVICE DATA STRATEGY



Salt Lake City, Utah



QUALITY IMPROVEMENT

Value-based
Kidney Care



Formulary Change
Post Surgery

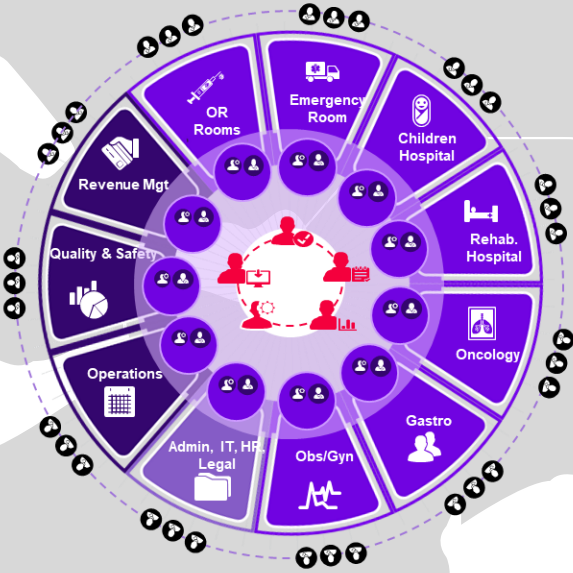


Pulmonary
Embolism
Response Team



50+ Service Lines **23M+** In Grants Awarded

**BUILD CENTRAL HUB FOR
LEARNING HEALTH SYSTEM INITIATIVES**



Chicago, Illinois



AT THE FOREFRONT
UChicago
Medicine

PROMOTE ONE UCHICAGO VISION



UChicago



UChicago Medicine

140+

Project Ideas

10

Years of Data

Medication Reconciliation
Lab Stewardship
OR Throughput

EXTERNAL ACCESS TO SYNTHETIC PATIENT DATA

CRADA

Cooperative Research and
Development Agreements



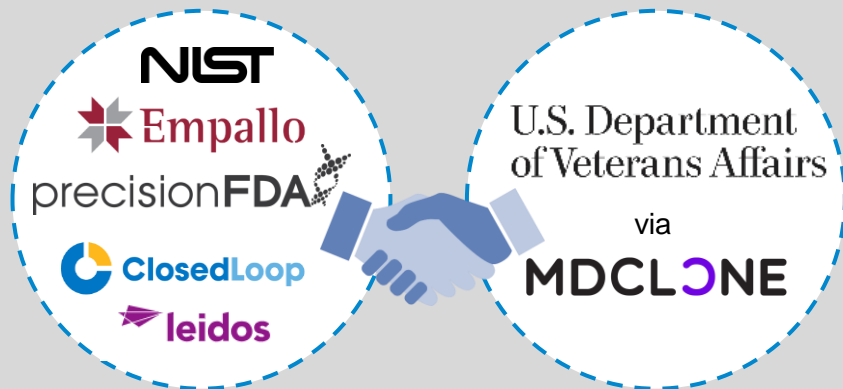
Washington, D.C

VA



U.S. Department
of Veterans Affairs

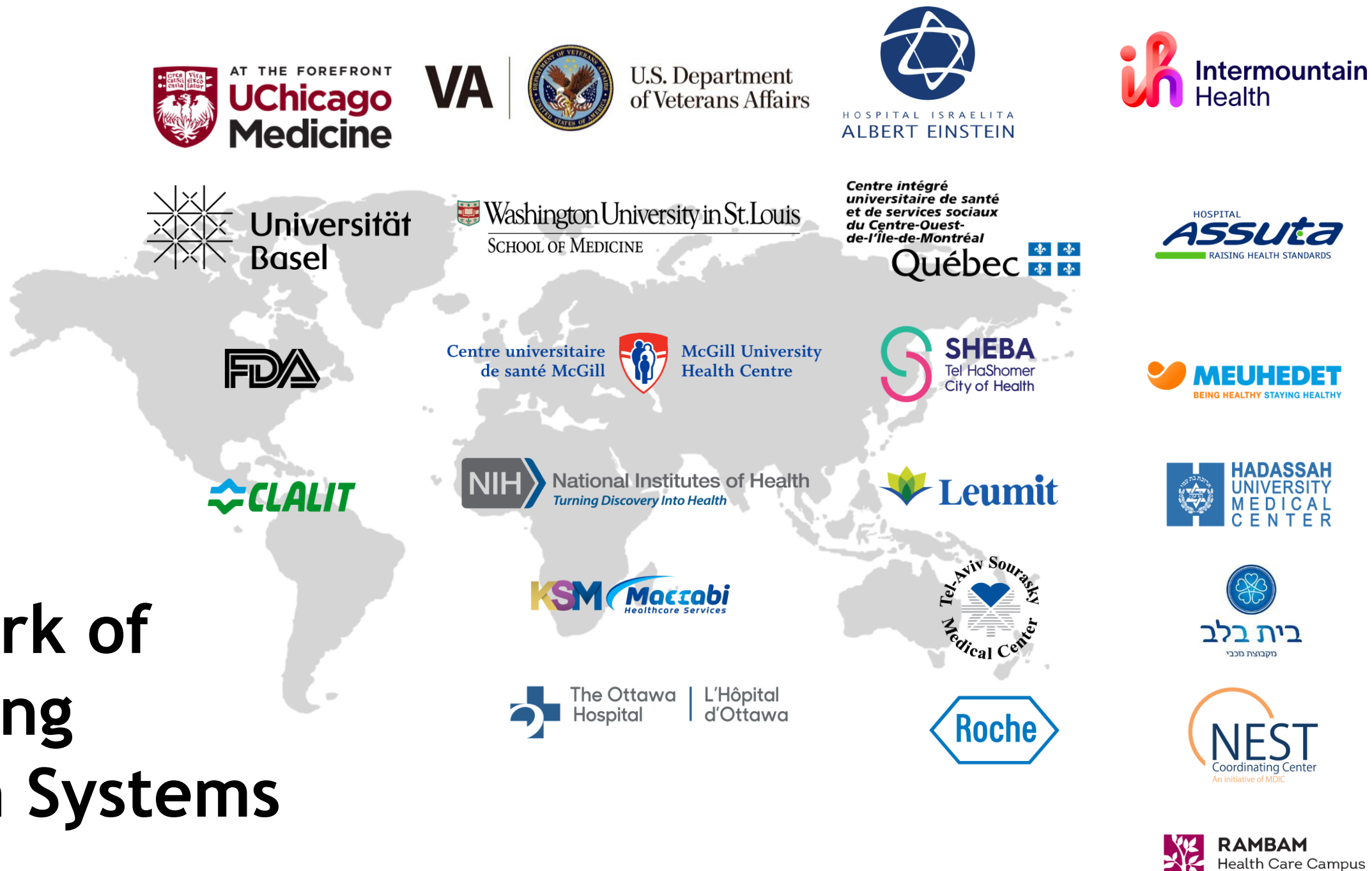
Open Innovation



USING SYNTHETIC DATA TO BUILD AI/ML MODELS

- Clinical Trial Matcher
- Predict Dementia Progression from MCI
- Target Pre-diabetics eligible for diet counseling
- Suicide Prevention
- Predict Heart Failure Outcomes
- Predict Risk of Self-Harm

Network of Learning Health Systems





Thank you!