

Digital Quality Summit

Charles Jaffe, MD, PhD
CEO, Health Level 7

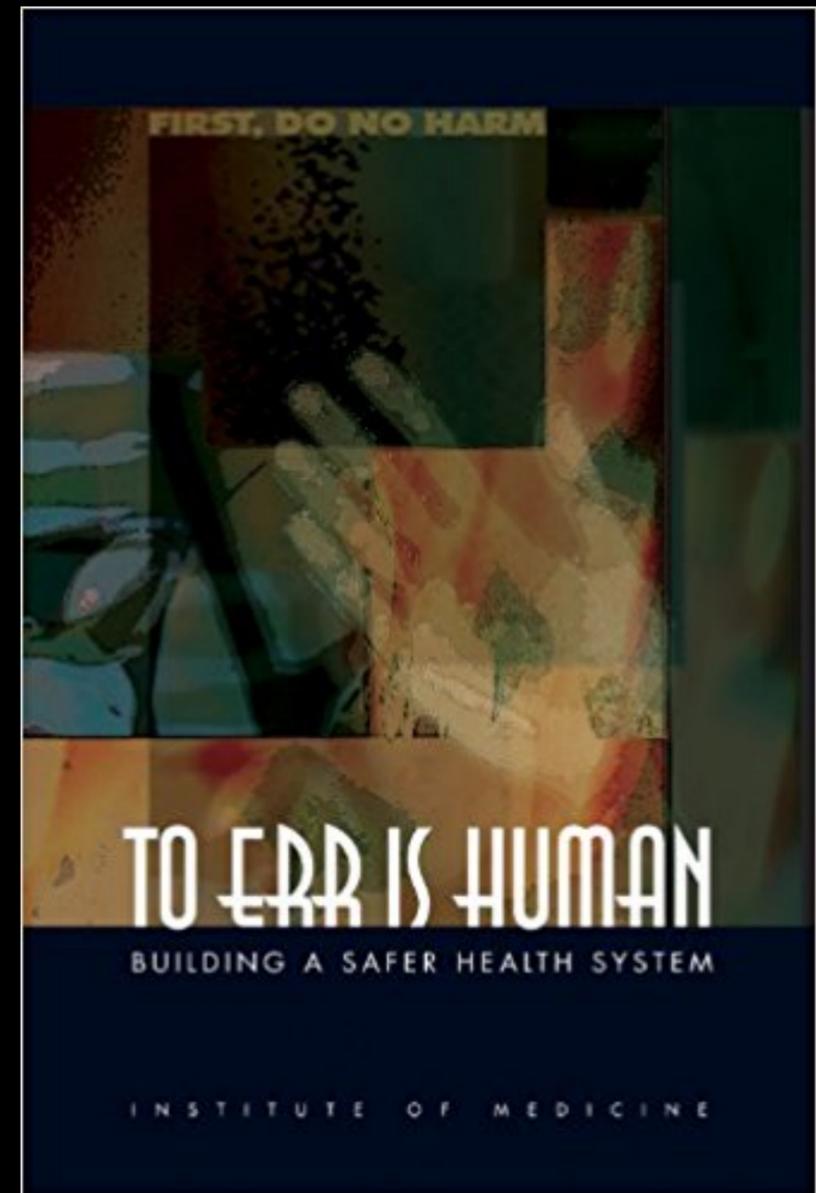
Washington
15 November, 2018



Quality care has always seemed
so difficult to achieve?

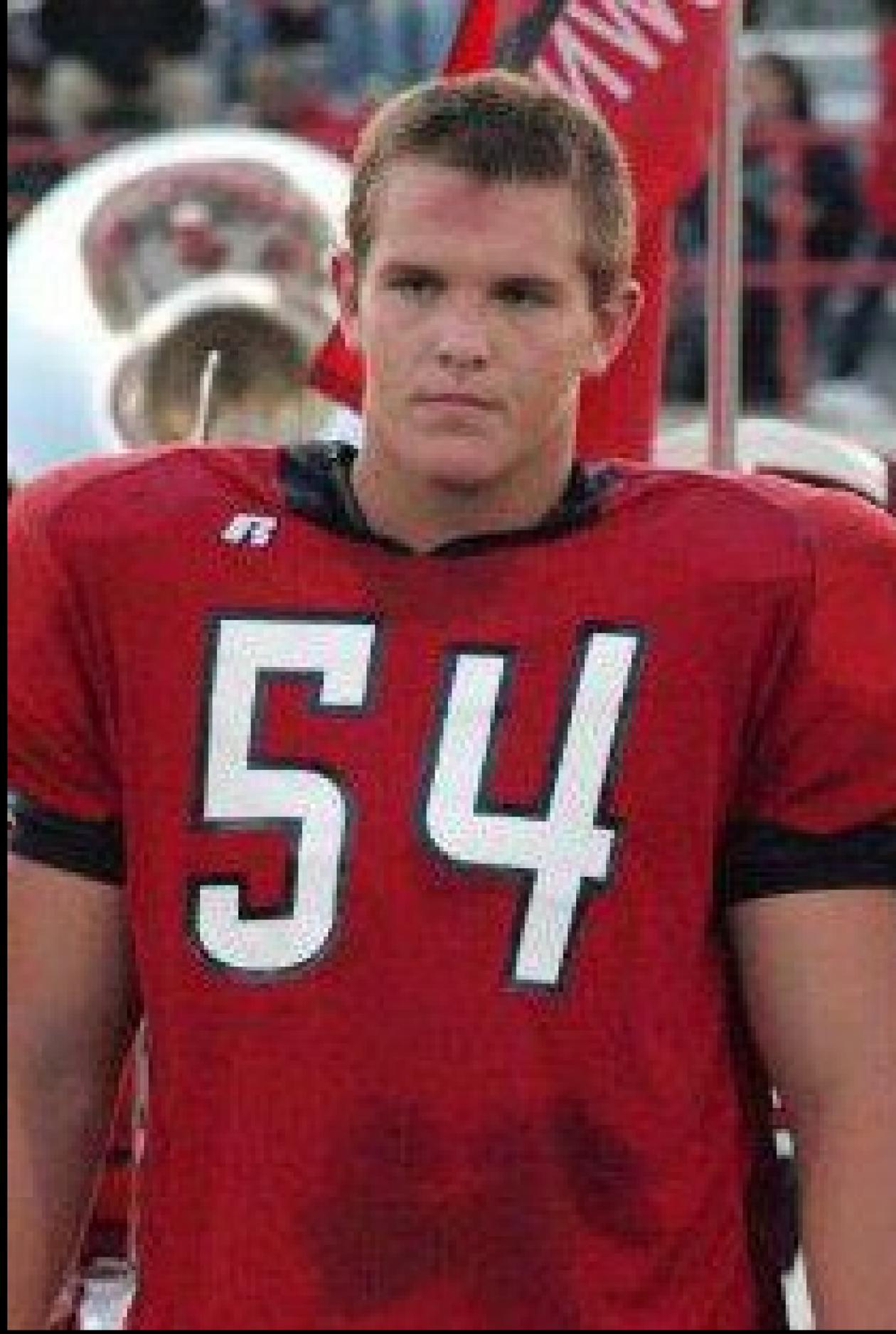


Two decades ago
the Institute of Medicine published
To Err is Human



...and we really haven't gotten better since.

This is Jack's story



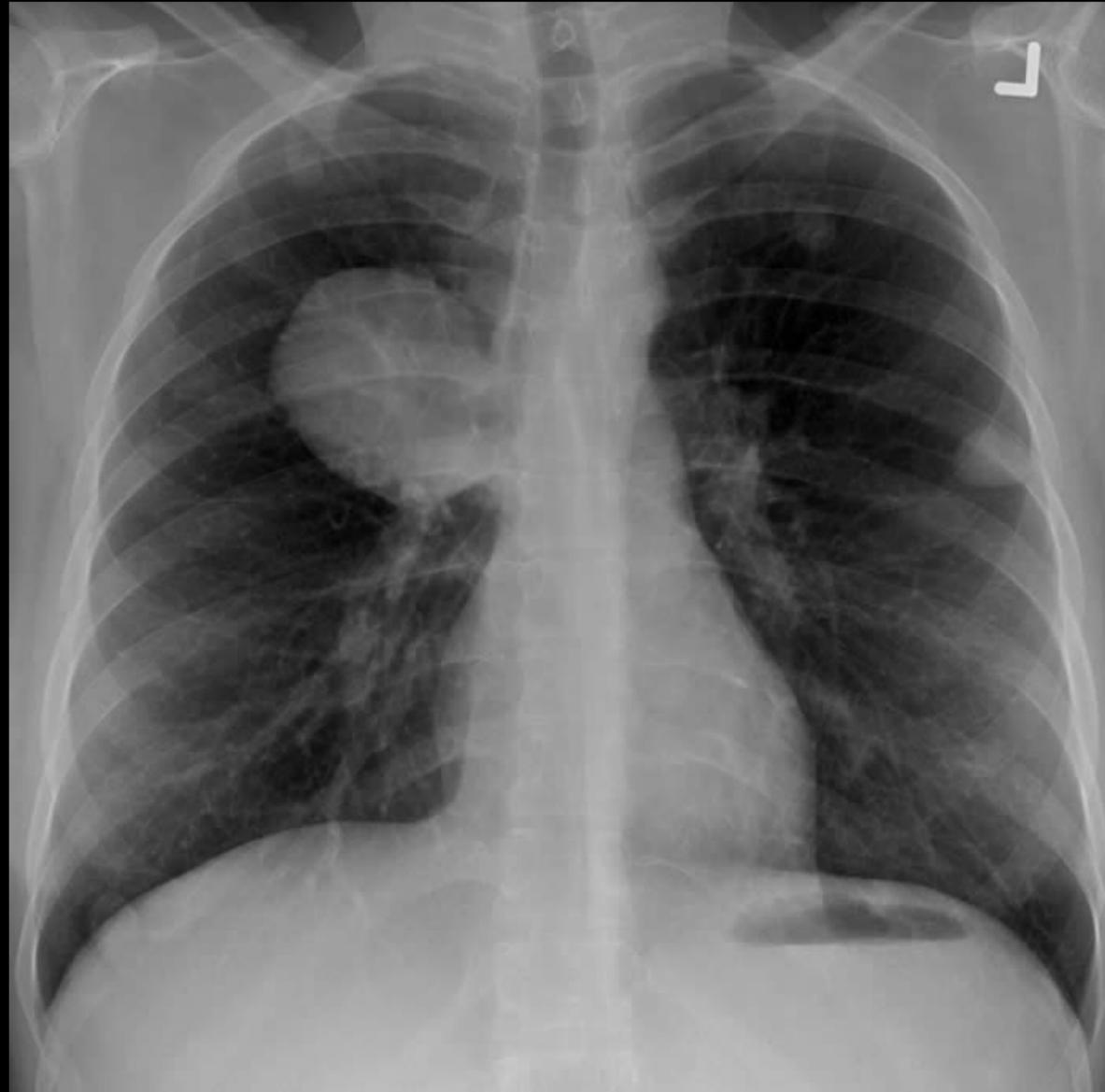
This is Jack

Honor student
Football hero
College-bound

Jack complained
to his Family Doctor
about knee pain.

This is what
Jack's knee
looked like,
but his doctor
never saw the
report.





This is Jack's chest x-ray
after I first saw him.

The Pathology Report said
metastatic osteosarcoma

Medical Errors
are third leading
cause of death in the
United States

There should be
no more stories
like Jack's

Quality care has always seemed
so difficult to achieve?

Now there's something
we can do about it.



“We can’t solve problems with the same kind of thinking when we created them.”

Albert Einstein



Fast Healthcare Interoperability Resources



My coach said
that I kick
like a girl.

I told him that if
he tried harder,
he could too.

Mia Hamm

HL7 FHIR took more
than a good idea



Argonaut Project



A private-sector initiative established in 2014 to accelerate FHIR implementation.

Now utilized around the world for international data exchange



Apple iOS 11.3 & beyond supports EHR data



based upon the Argonaut Project
Implementation Guide



*HL7 FHIR is more than
technology.*

*HL7 FHIR is about
Community.*



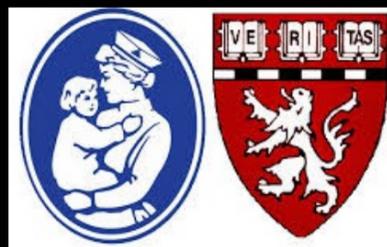
“The plural of anecdote is
not data.”

Chris Chute, MD
Johns Hopkins

Bulk Data on FHIR

The technology & policy for exchanging records from an unlimited number of patients or study subjects

supporting data analytics for population health, value-based care, clinical trial design and pharmaco-vigilance.



It's all about asking the right question

I asked the Librarian if she had a book about Pavlov's dog & Schrödinger's cat.

She said that it rang a bell, but she wasn't sure if it were there or not.



CDS Hooks

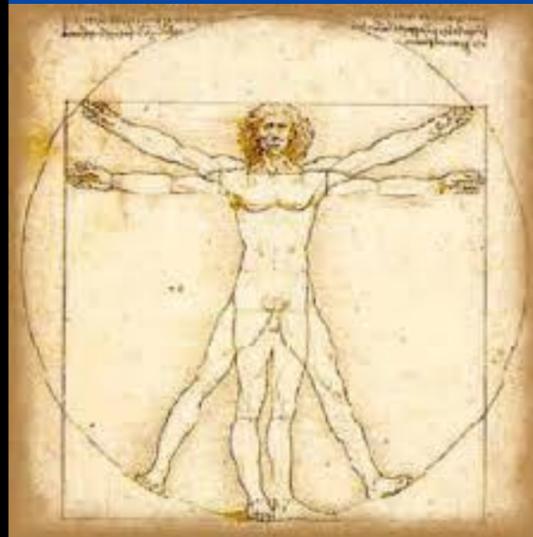
A vendor-agnostic remote Clinical Decision Support platform that helps to solve the problem of workflow integration

CDS HOOKS



Da Vinci Project

Advancing “Value-Based Care”
by leveraging FHIR for
the capture of granular clinical data
from patient records
to improve quality, to reduce costs,
and to enhance care management.



<http://www.hl7.org/about/davinci/index.cfm?ref=common>



ONC P2 FHIR Task Force Project

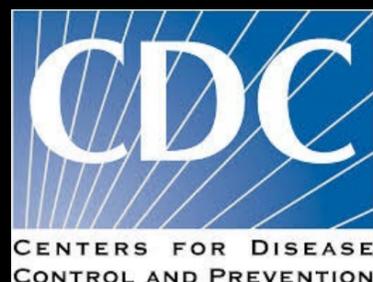
A group of payers, standards developers,
and healthcare organizations collaborating
on the development of a FHIR API to
reduce variability in industry implementation



Value-based Care
will be our legacy

Health Agency Collaboration

US Federal agencies including
FDA, CDC, NIH, DoD, VAH, and others
actively collaborate on
FHIR implementation programs



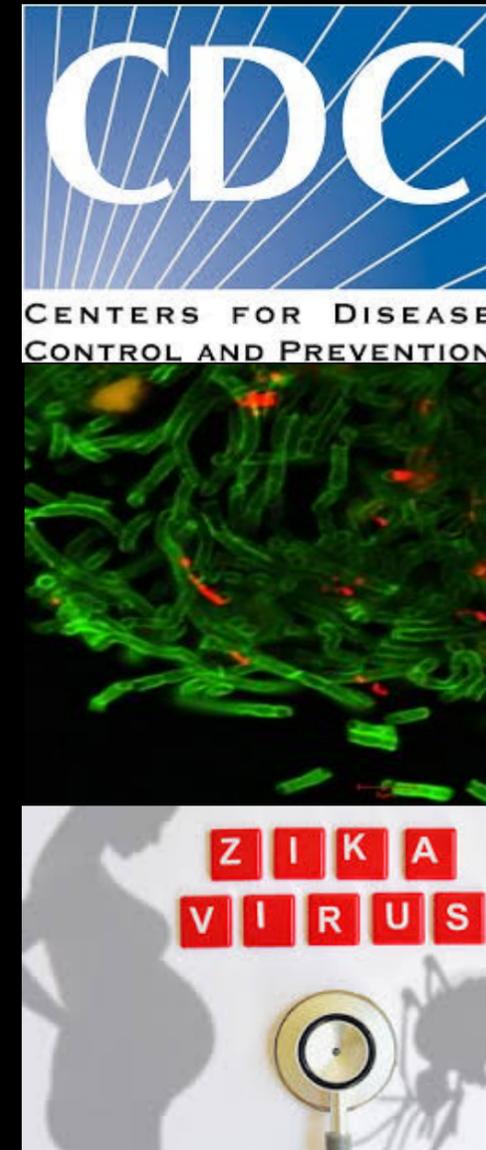


VA Lighthouse Gateway Project

FHIR API gateway platform
supporting mobile and web Apps
for both providers and patients



CDC is leveraging FHIR for
Morbidity & Mortality reporting*



* Death on FHIR

The FDA is collecting data from
the EHRs to capture
Real-World Data
for drug safety and effectiveness.





Sync4Science

Sync4Genes

& DIGITizE

use FHIR to enable Genomic Data for
Precision Medicine,
Translational Science,
& Clinical Decision Support



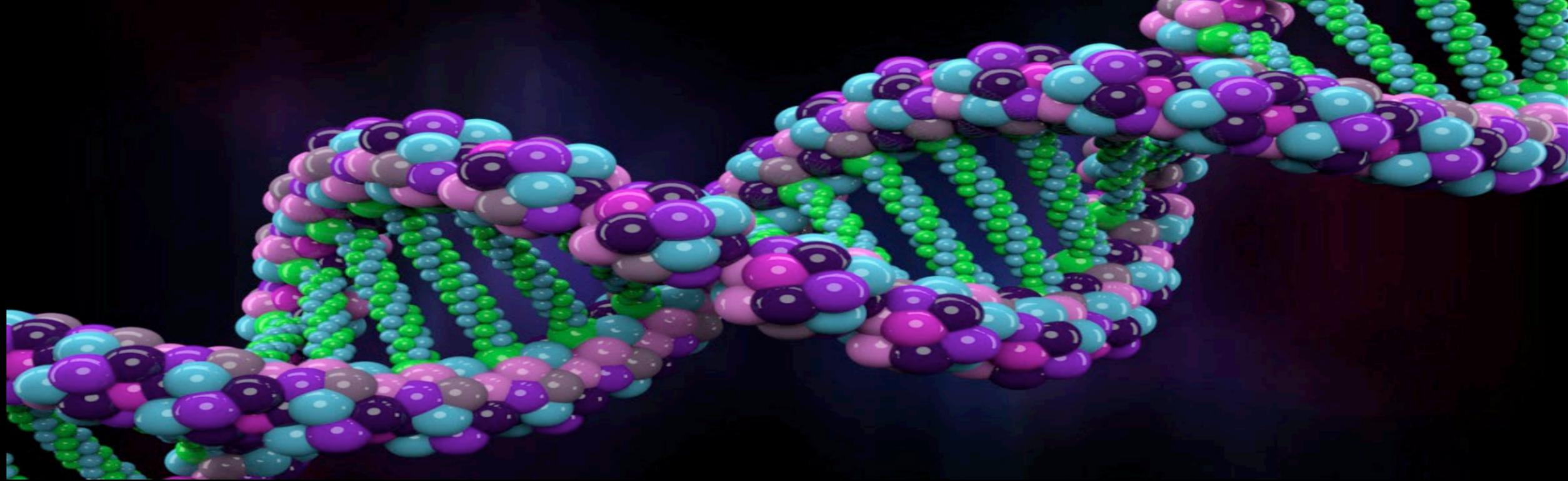
Translational Science: CTSA

The CTSA community is leveraging FHIR to create a learning health system between pre-clinical science and patient care.



The growing FHIR Community in the Non-Government Sector





Consortium for Agile Genomics

partnership with
Global Alliance for Genomics & Health



Global Alliance
for Genomics & Health
Collaborate. Innovate. Accelerate.



HL7[®] FHIR[®]

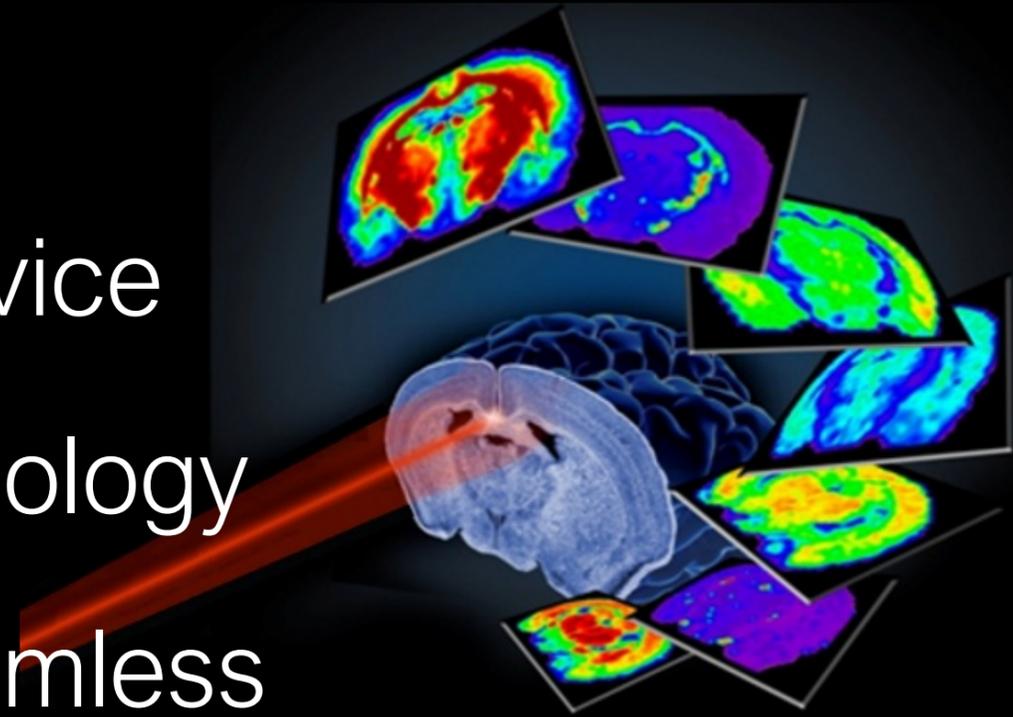
International BioPharma
is leveraging HL7 FHIR
for real-world evidence for
clinical trials,
post-marketing bio-surveillance,
and genomics integration.



TransCelerate
BIOPHARMA INC.

Devices on FHIR

A collaboration of device
manufacturers & technology
vendors ensuring a seamless
exchange of data between
clinical devices and
health information systems



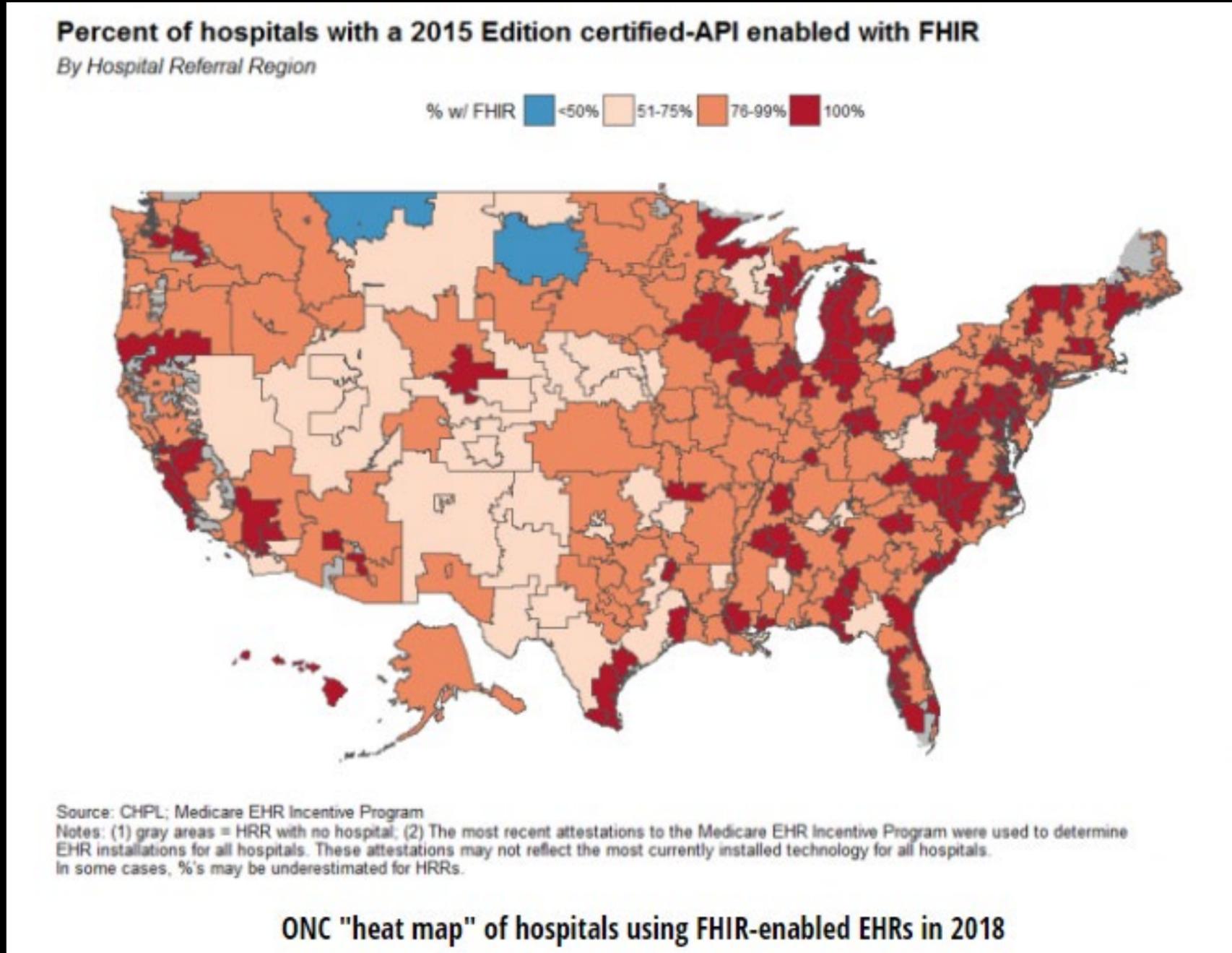
Tech Giants Announce Collaboration on FHIR API for Healthcare Cloud Interoperability



August 13, Washington



ONC FHIR Heat Map

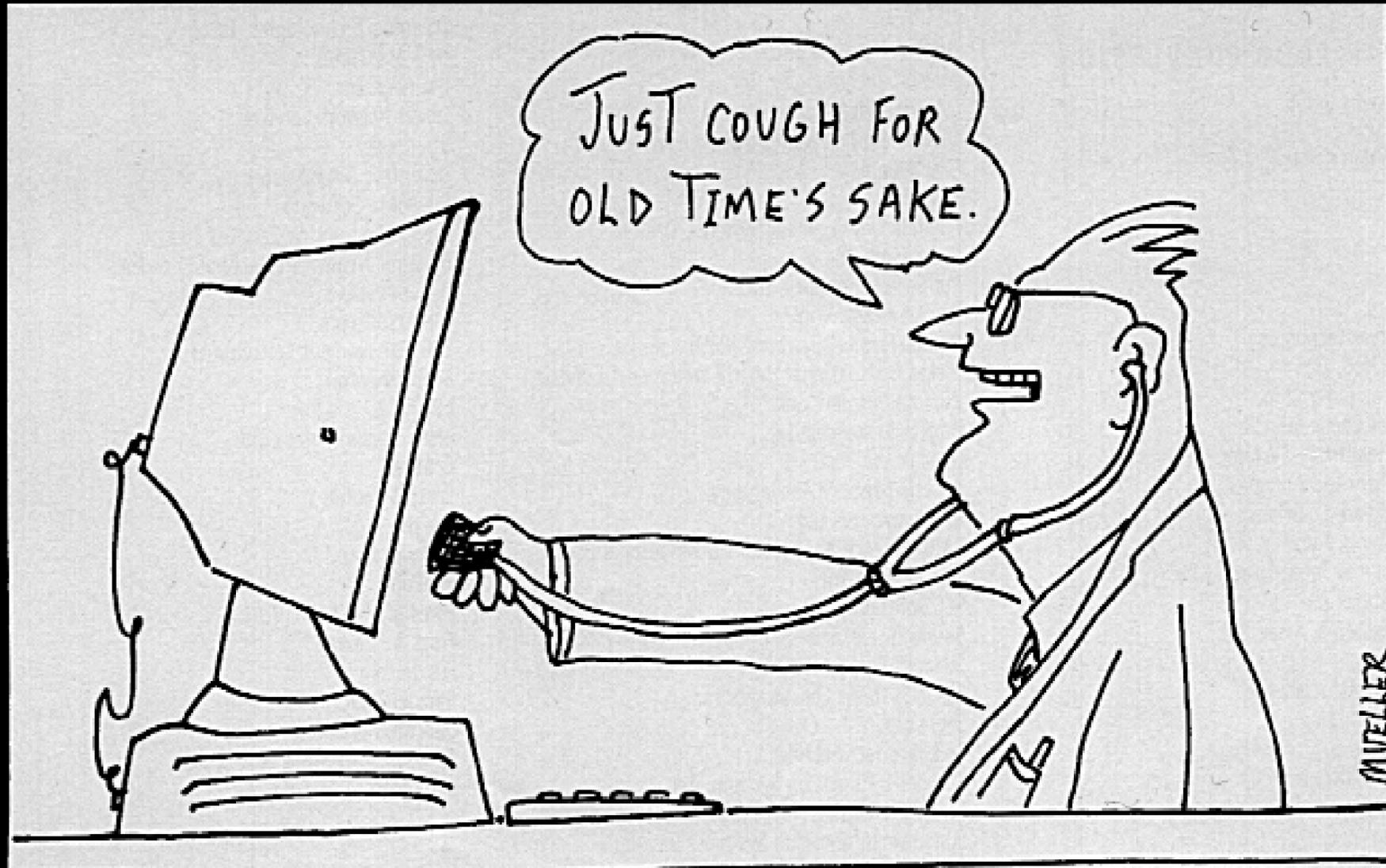


Perhaps the only solution to the spiraling cost of health care is to take better care of our patients.

Ed Hammond, PhD



Thanks



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