



Clinical Trial Matching for Patients and Providers

By Tarun Kumar

Agenda



About Cancer Insights.....



Trial matching workflow and challenges.....



Developing around standards.....



The team.....



Demo of Cancer Insights patient app.....



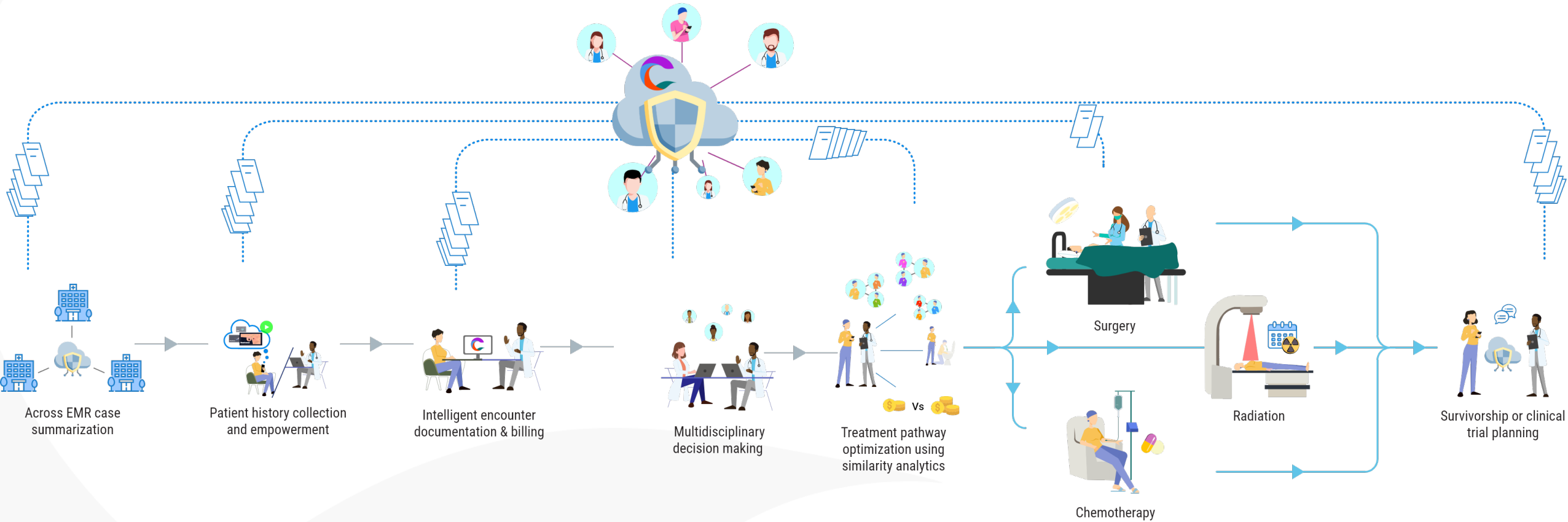
A Real-Time, Intelligent and Learning Health Platform for Oncology Decision Support

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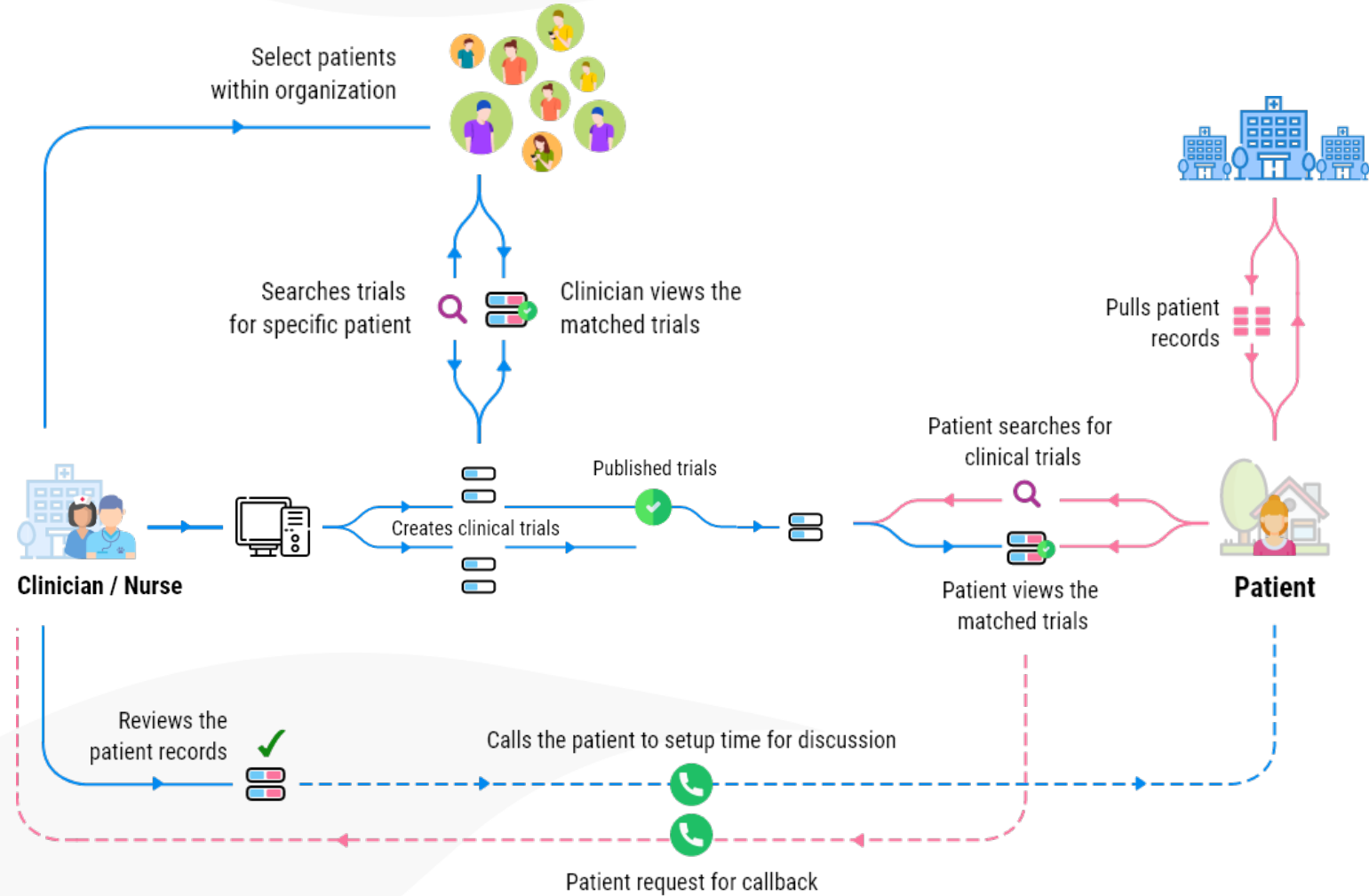
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About Cancer Insights





Clinical trial matching at Sites





Challenges in oncology and clinical trial matching

1

N² Problem

- Unstructured clinical trials criterions
- Unstructured and siloed medical records

2

Transparency of matching

- Most matching services do not provide insights into match/mismatch
- Being approximate right vs. exactly wrong / false positives vs. false negatives

3

Non-codified trial matching

- Unstructured trials are interpreted differently by each trial service
- Sparse usage of standards: ICD, CPT, SNOMED, LOINC

4

No available communication standards

- Lack of standardization of matching elements
- Lack of standards of matching results



Developing around standards

Exchange matching elements using common terminology

- Use mCode as the standard to send clinical elements extracted from medical records
- Codify all clinical elements to ICD/CPT/SNOMED/LOINC standard
- Each Clinical Trial Service sends back an HL7 research object

Adoption of oncology data model as a frontline system

- Codify data at the point of care
- Use clinical coding to drive better decision making

Transparent matching results

- Show matches / mismatches / unknowns for each inclusion / exclusion criterion
- Enable providers / patients to toggle inputs to evaluate modifiable / unmodifiable matching constraints



The team and collaboration updates



MITRE



Project Updates

- September 2020: Public call to share Phase 0 accomplishments and Phase 1 plans
 - Phase 0: demonstrate the ability of a trial matching service to receive an mCODE record, analyze the record to make trial matches, and present these matches back to the patient/provider
- The HL7 Biomedical Research and Regulation Group agreed to sponsor this project and approved the PSS
- January 2021: Phase I Launch
 - IRB Study: 10 patient study to validate that the optimized patient data can effectively filter clinical trials for patients

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