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### FHIR <del>vs</del> + OpenEHR

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## #hello my name is...

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### **Evolution of health standards in Kainos**



standards based services



#### FHIR vs OpenEHR



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# FHIR vs openEHR

Today I attended an event on the NHS and openEHR, hosted by Salford Royal NHS Foundation Trust. It was a great event with lots of interesting and inspiring stories about how people are combining innovation and open standards to help enable the delivery of better care to patients. As someone who has been working with FHIR for a number years to help solve similar problems I was interested to learn more about openEHR, how people are using it and also how it aligns with FHIR.

#### https://medium.com/@alastairallen/fhir-vs-openehr-75a0a7c6e5a7

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### FHIR Use Cases



FHIR Scope

### Challenges







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FHIR Scope

### FHIR + OpenEHR (Exchange)



#### Pattern:

- Use FHIR API for exchanging summary data between systems e.g. Secondary Care to Primary Care
- Use OpenEHR API for writes to applications that need to capture a broad dataset



### FHIR + OpenEHR (Facade)



#### Pattern:

 Don't use OpenEHR (unless there is a need/desire to move database to OpenEHR)



### FHIR + OpenEHR (Persistence)



#### Pattern:

- Use FHIR API for READS
- Use OpenEHR API for WRITES





### **Use Case Summary**

#### **OpenEHR** optimized for:

- Storage of data in vendor neutral format
- Clinically designed models following "maximal dataset"
- Semantic querying of data through AQL

EHR

#### FHIR optimized for:

- Exchange of information between systems
- Common models following
  "80/20" rule
- Exposing data through industry adopted API's



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### Learns

- Translation and normalization of data between systems must be clinically led. Standards will not address this challenge
- Translation between FHIR and OpenEHR is improving but still limited. Maturity is needed for a FHIR+OpenEHR partnership to thrive

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• Education is important to get beyond the hype

### In summary

### FHIR and OpenEHR are **complimentary**, **not competitive**. Combine both to create an open, interoperable eco-system



Thank you



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