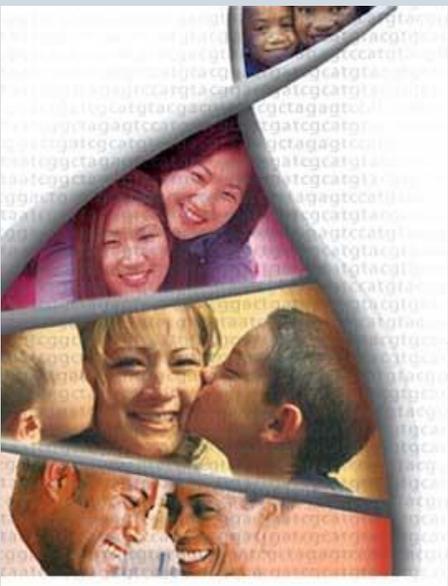# EHR Integration – successes, challenges, and EHR industry participation

GRANT M. WOOD

INTERMOUNTAIN HEALTHCARE CLINICAL GENETICS INSTITUTE
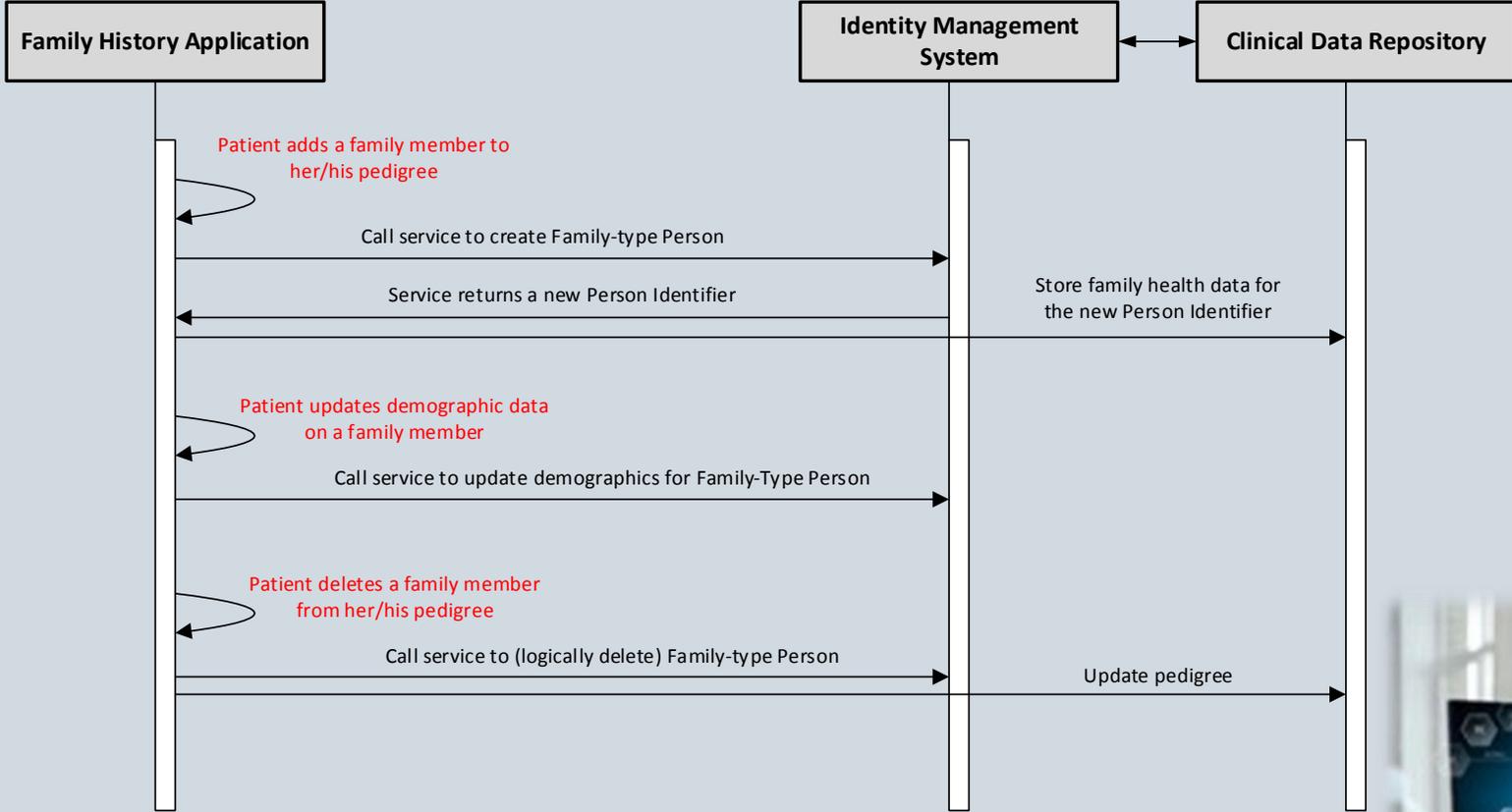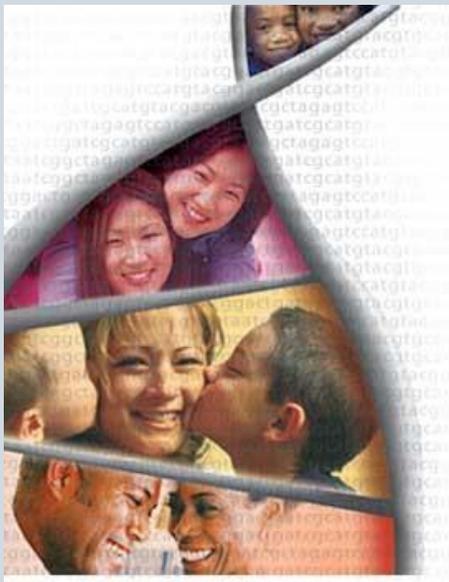
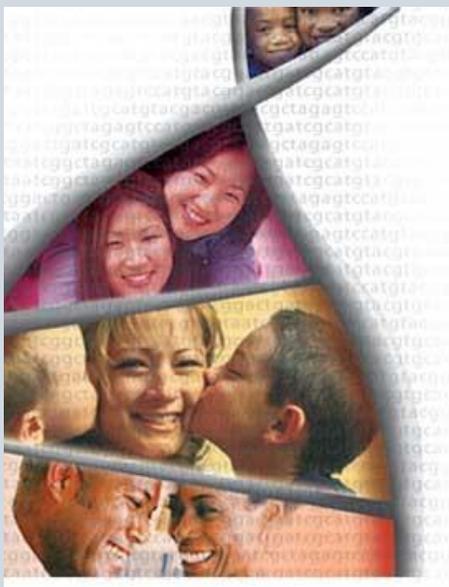# FHH Data Model in EHR

The FHH conceptual data model in the EHR consists of four categories:

1) demographics,
2) pedigree,
3) disease history,
4) and lifestyle.
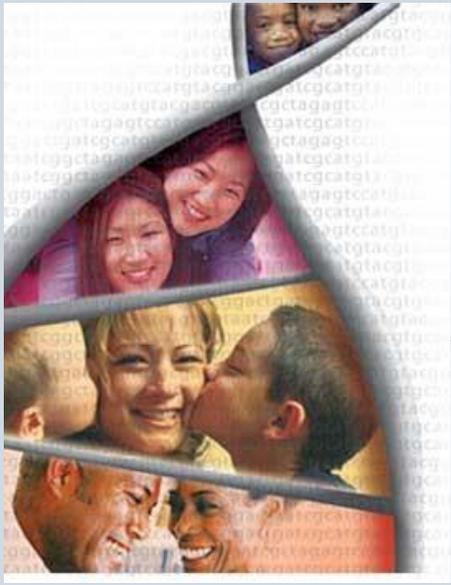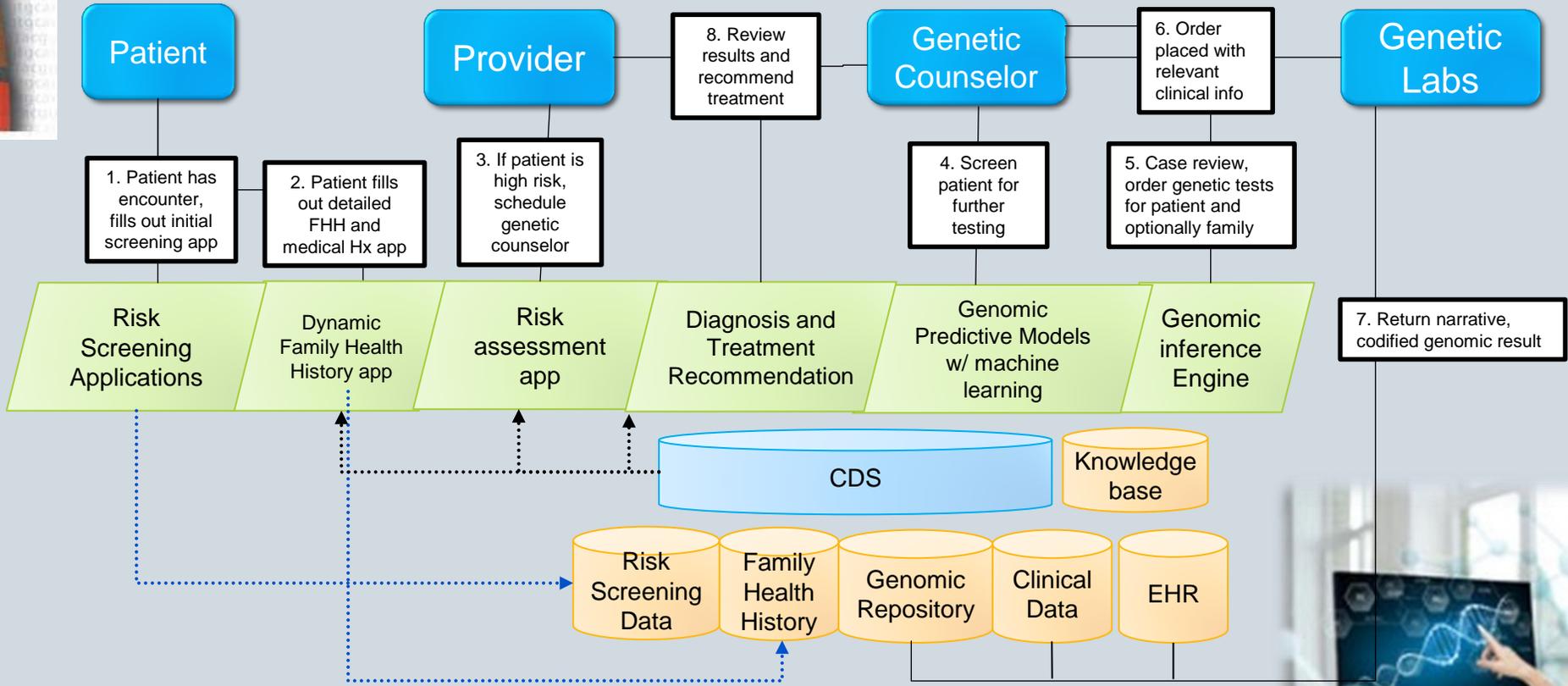
FHH Data Model in EHR
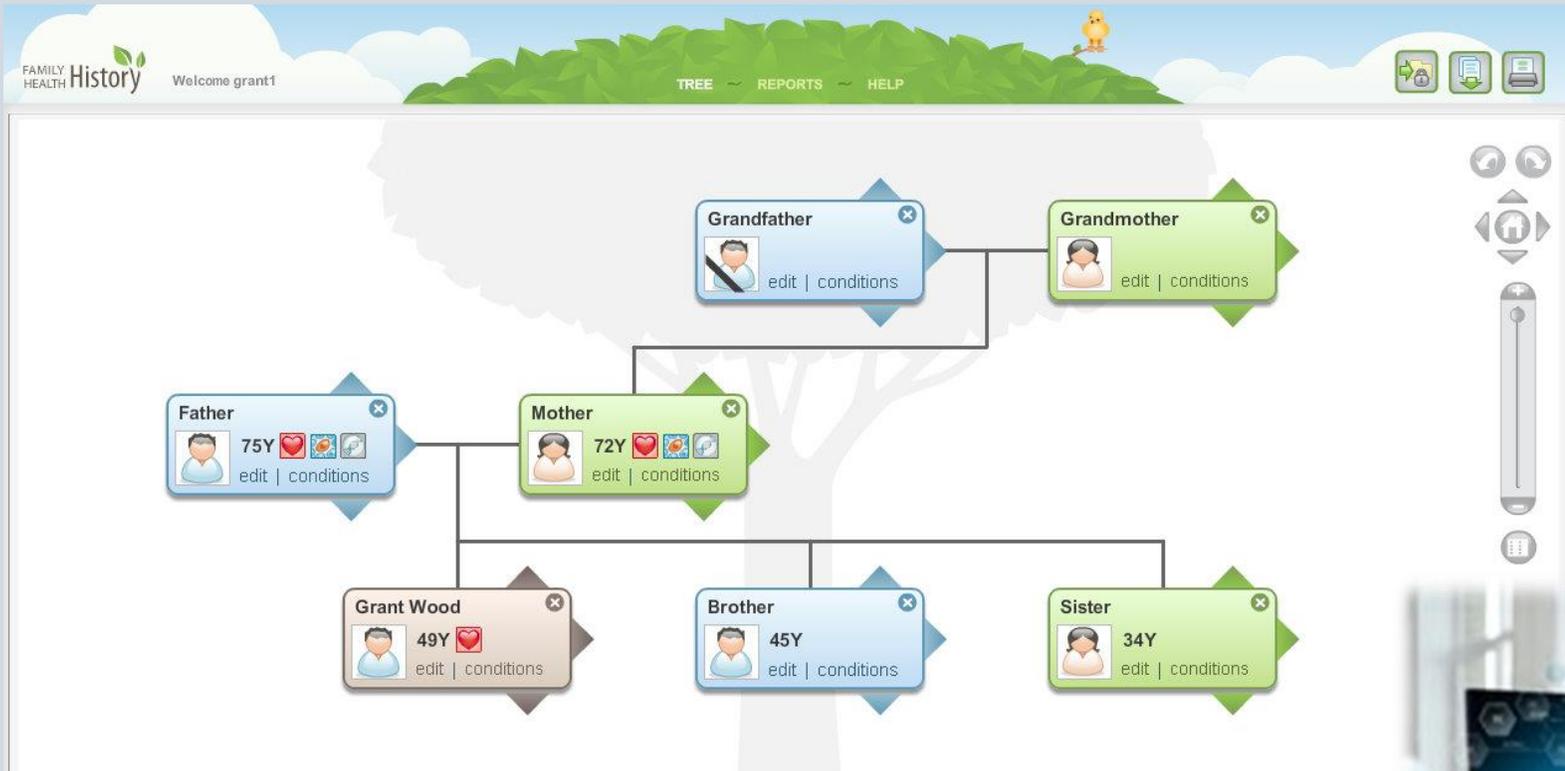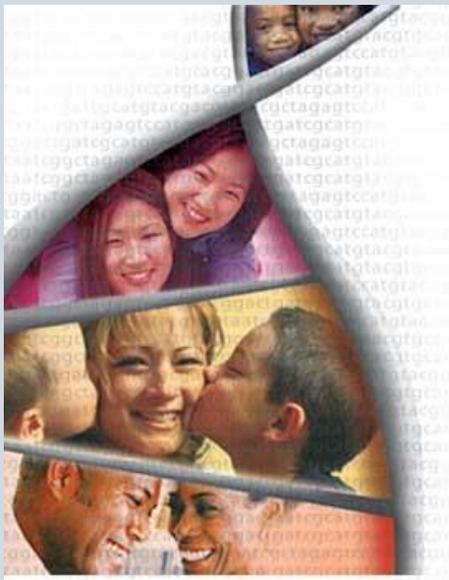
FHH Data Model in EHR (check list)

- Create, update, delete, query services for identities of family members
- Linking of family members
- Integration of problems/conditions into the pedigree
- Reconciliation of conflicting data
- Link to external FHH repository, genomics repository, web-based risk services
- Clinical risk report in EHR
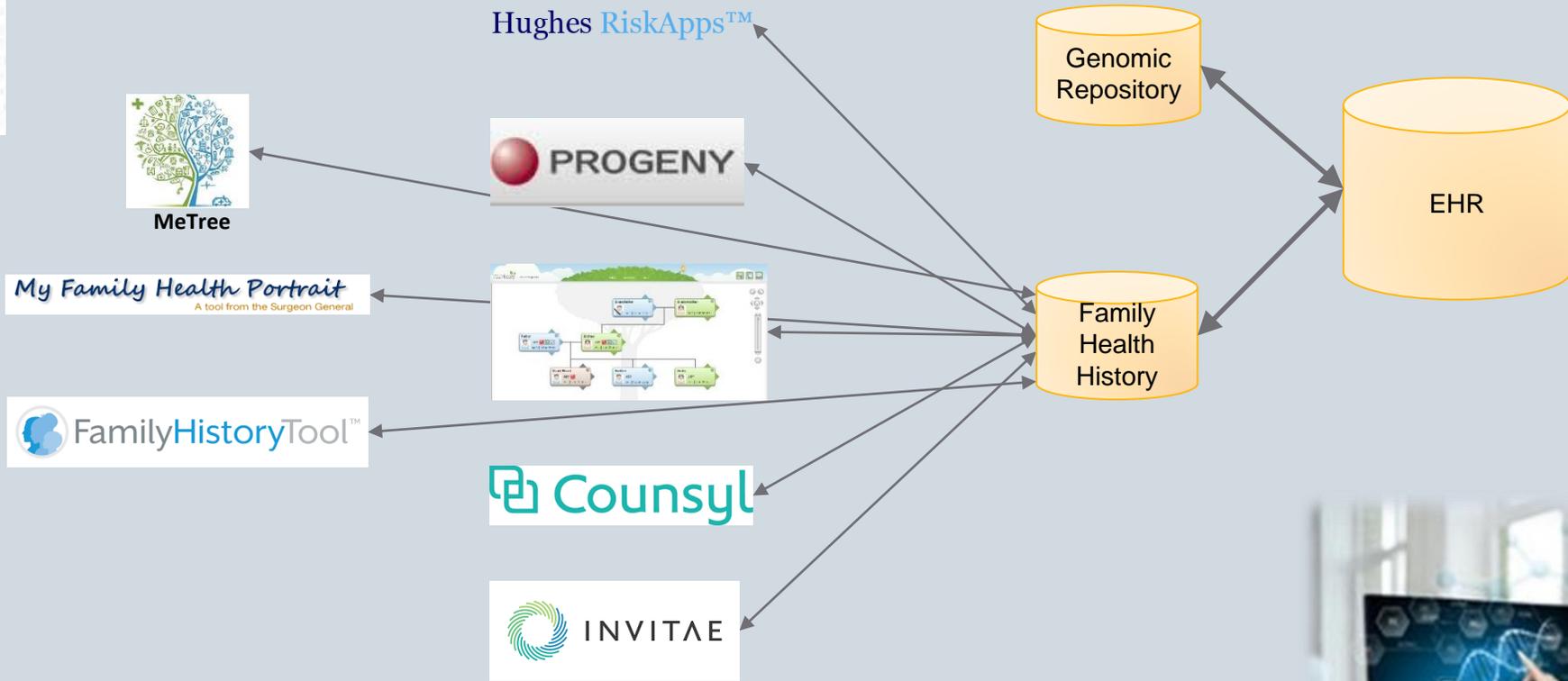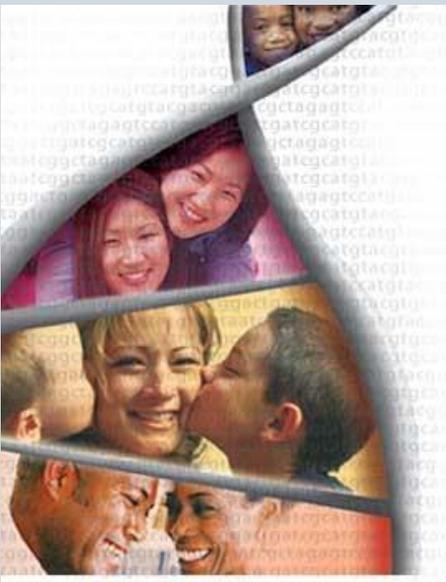- Clinical decision support
- Consent management system

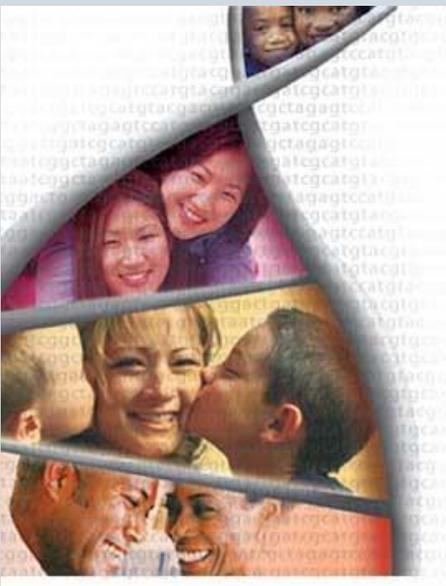FHH Part of Complete Genetic Profile

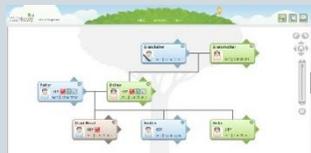# Patient-Entered FHH Tools Should Link to EHR (patient portal, 3ʳᵈ party)

Patient-Entered FHH Tools Should Link to EHR (patient portal, 3rd party)

FHH FHIR to EHR Pilot - Including Risk Services

1) Intermountain FHH tool creates FHIR message

2) FHH FHIR message sent to web-based risk service

3) (Intermediate step - FHIR translated to V3 for risk service processing)

4) Steps #1 - #3 reversed sending results back in FHIR format to Intermountain FHH tool

5) Intermountain FHH tool sends pedigree and risk data to Cerner using FHIR