

***ePRO Data for Risk Screening with OpenClinica
and CDISC ODM***

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Project Goals

- Develop a screening protocol and technology platform to:

A) allow patients to complete a brief screening form while in the waiting room prior to their appointment

B) provide immediate feedback on health risks and conditions for clinicians to use in the patient visit.

Collaboration between UCONN Health Center, OpenClinica, LLC, and Dimagi, Inc.

Project Goals


- Pilot use of the electronic screening tool with culturally diverse groups in Connecticut.
- Evaluate impact on patient care. Key metrics include:
 - Increases in referrals for health risks and conditions included in the screening instrument
 - Patients can complete screening instrument in 15 minutes or less prior to their appointment
 - Screening results are viewed by physician before/during the patient visit


Project Goals - Technology


- Initially deploy via touch screen tablet, support other modes (web, SMS, IVR) in the future
- Support English and Spanish, and also audio versions of the instrument.
- Incorporate dynamic skip logic.
- Function as an easily configurable platform on which other instruments can be designed/deployed
- Support use of scores and raw data in research datasets.


Workflow


- Front desk initiates tablet session, scans ID barcode, enters patient initials, selects language, and hands off to patient
- Self-directed by patient
- No patient info stored on the device - all immediately forwarded to OpenClinica

Trouble falling or staying asleep, or sleeping too much 

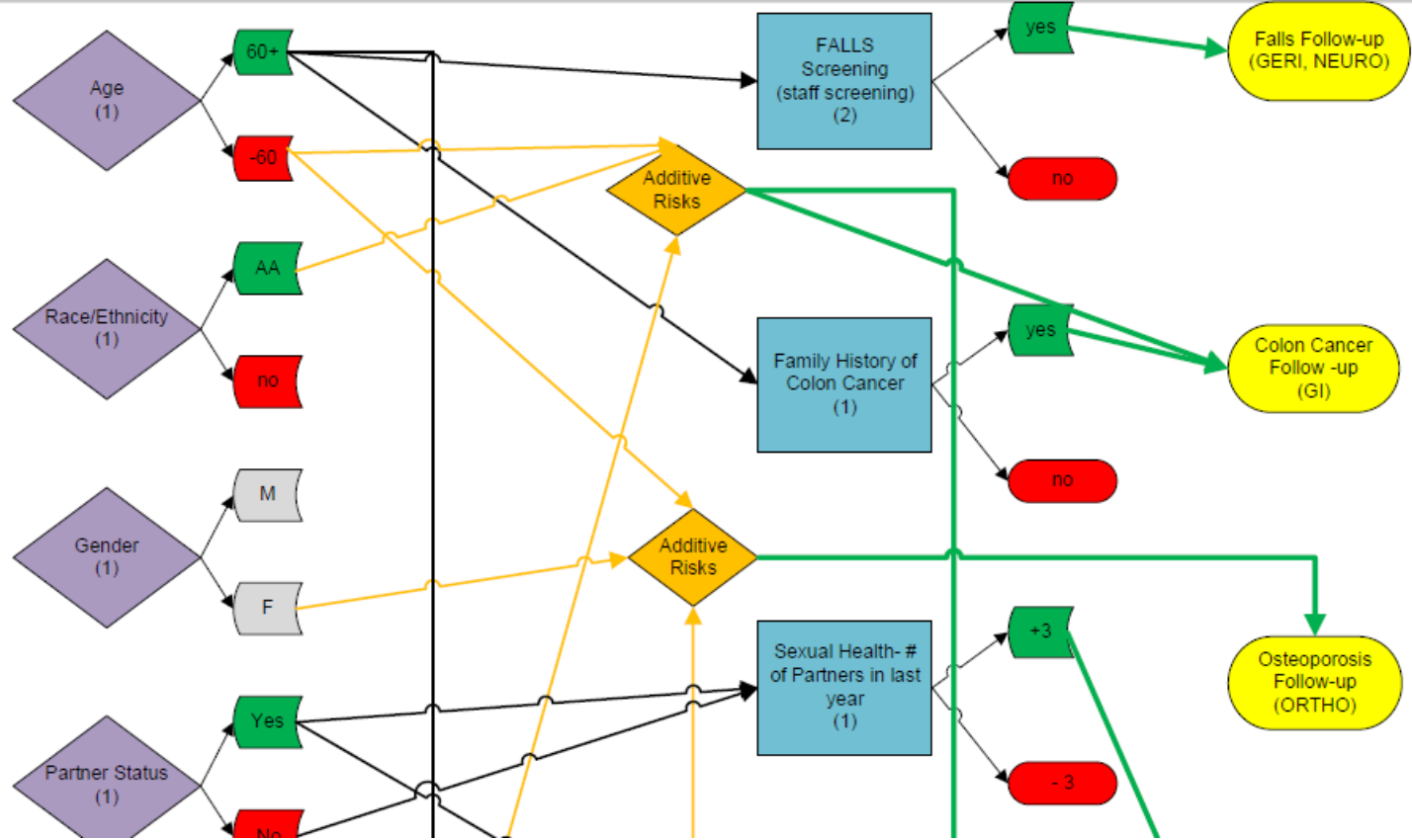
A. Not at all 

B. Several Days 

C. More than half the days 

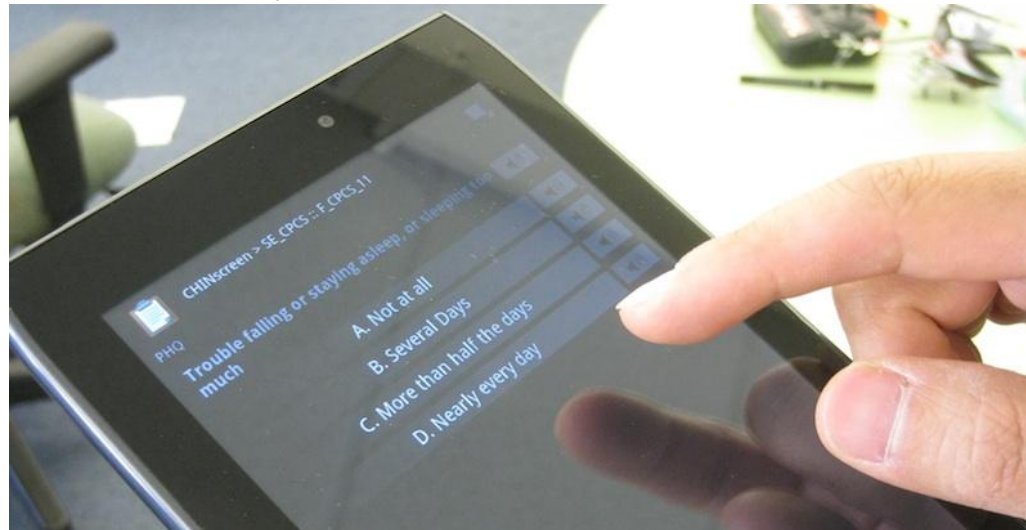
D. Nearly every day 

Workflow

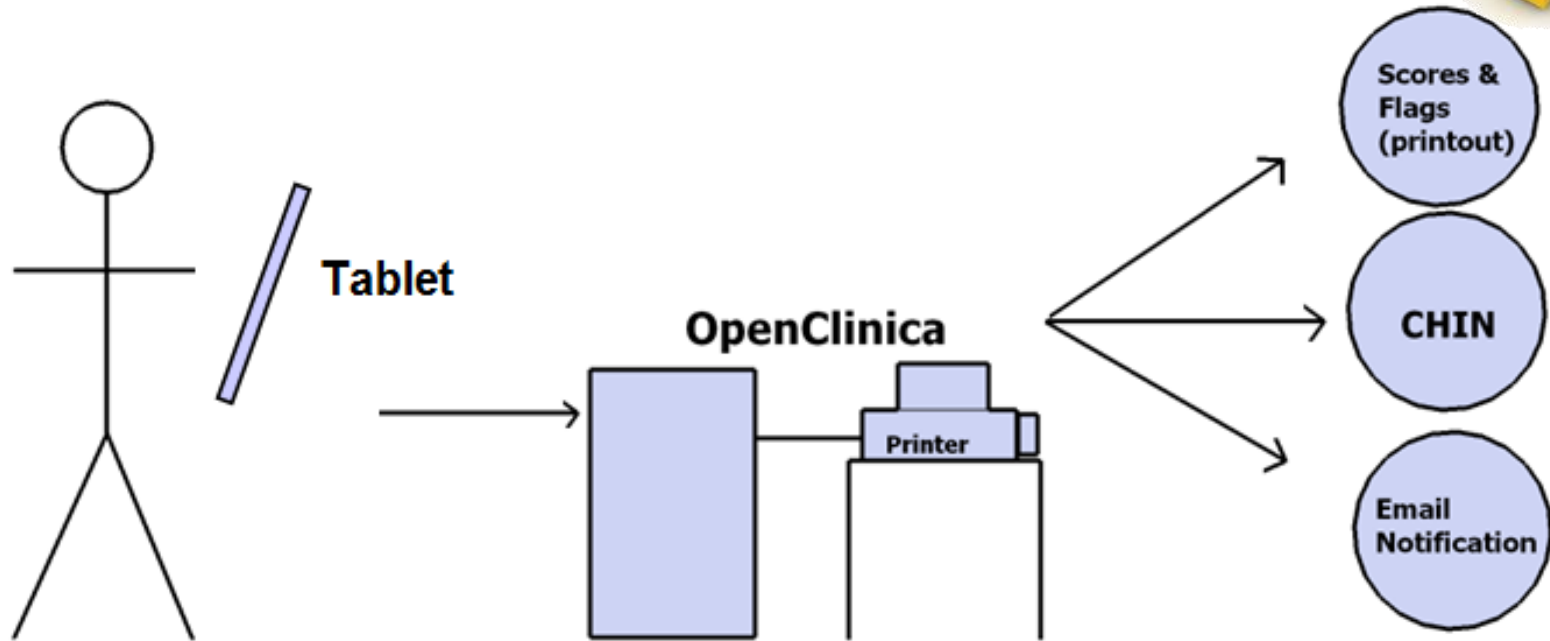


Architecture

- Tablet : comfortable and intuitive for patient use
- Adaptable to other formats (kiosk, web, phone)
- Compliance & safety: can be deactivated remotely



Architecture

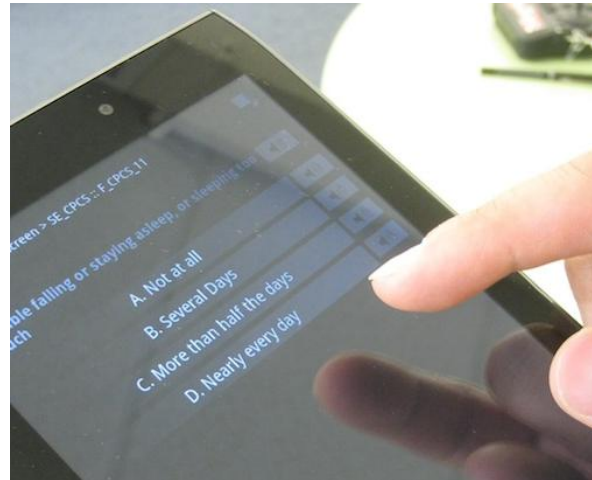


Highlights

- Use of pre-existing, widely-used open source components and libraries (OpenClinica, ODK) made this project feasible.
- Design once, deploy anywhere goal was met. Configurable for other forms without a programmer.
- Standards-based case report form definition (CDISC ODM) provided by EDC System, automatically converted to XForm for mobile client device. Not tied to specific software (in theory).

Thank you!

Questions?



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OpenClinica