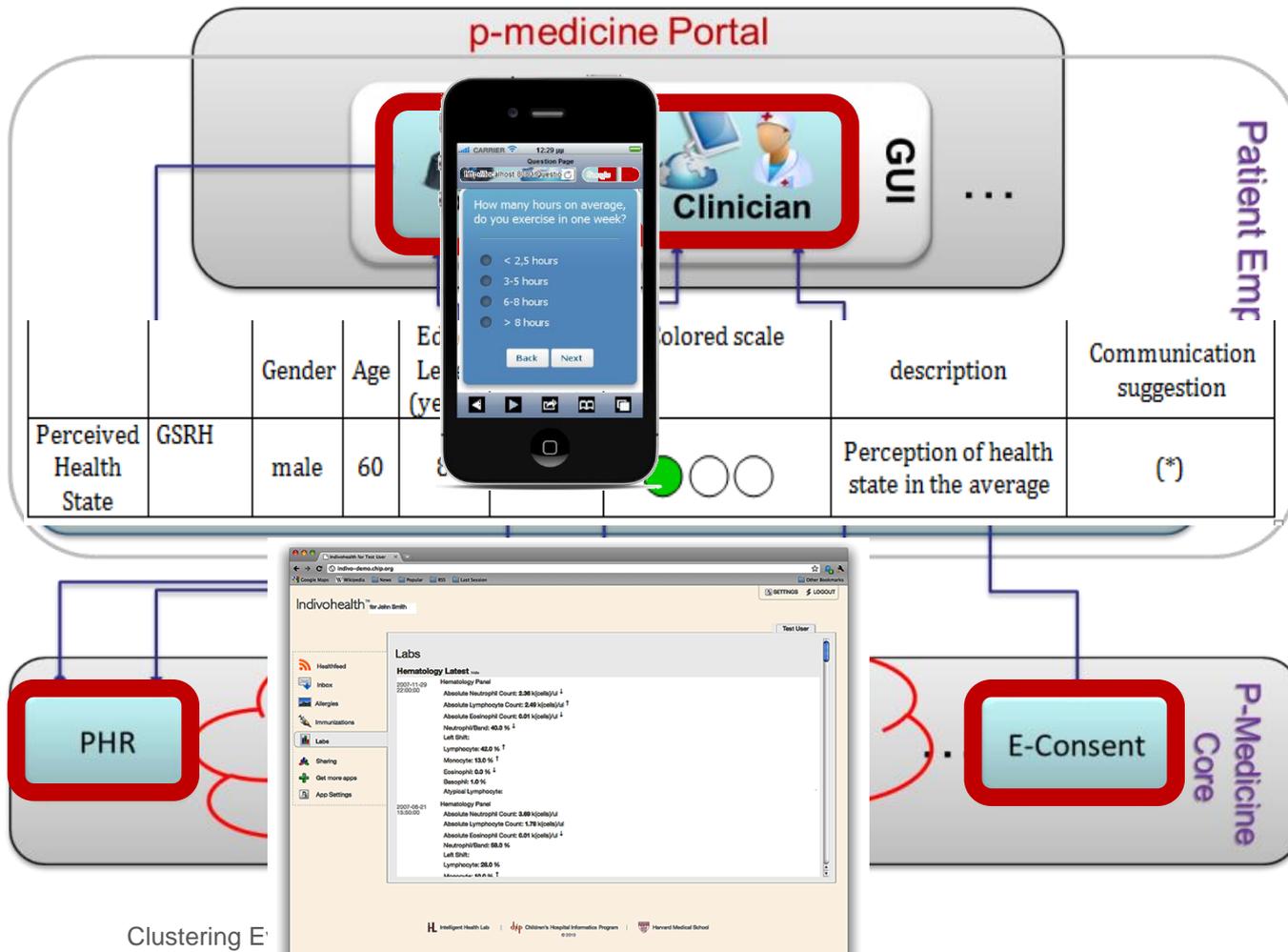


Informed, Shared Decision Making

training
 repository
 tools
 security
 p-medicine
 services
 decision
 data
 ACCT
 Paediatrics
 patients
 Oncology
 Cloud-Computing
 consultation



- Profile each patient
- PHR
- Questionnaire
- Patient Recommend.
- Inform, Explain, Adapt
- Consent
- Doctor Recommend.
- Adjust Verbal Comm.

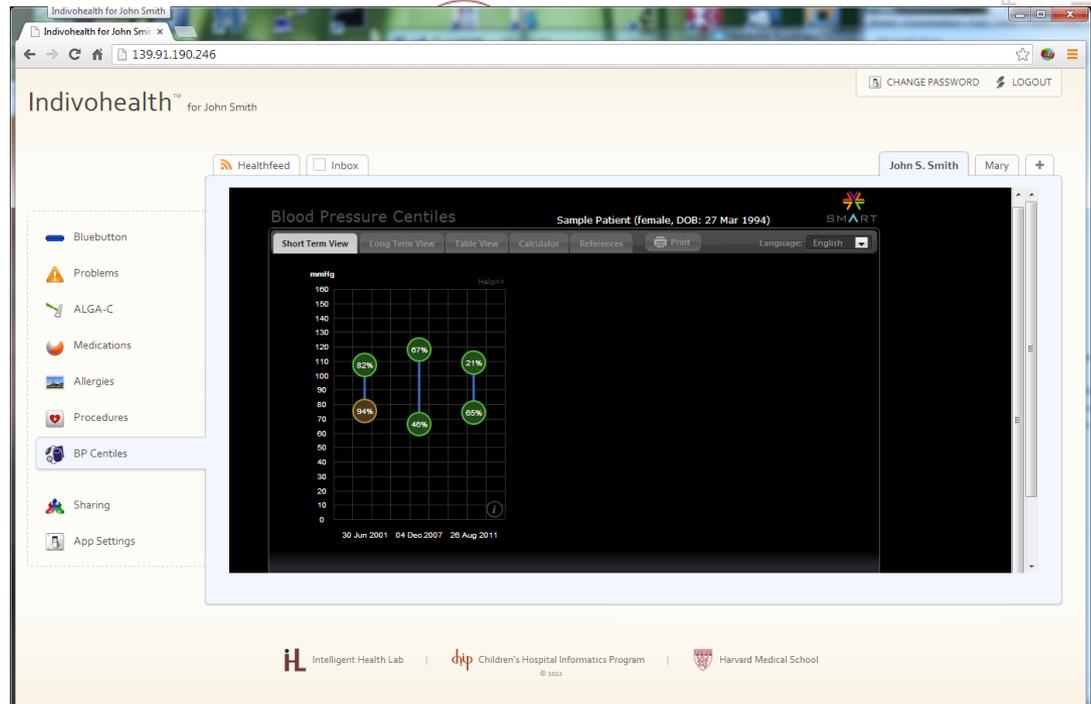
Clustering E-

IndivoX PHR

- Free, Open-Source, Web based PHR system
- Implements SMART-API
- Customizable, Modular
- Meets Meaningful Use criteria
- Standards
 - SnomedCT
 - RxNorm
 - LOINC

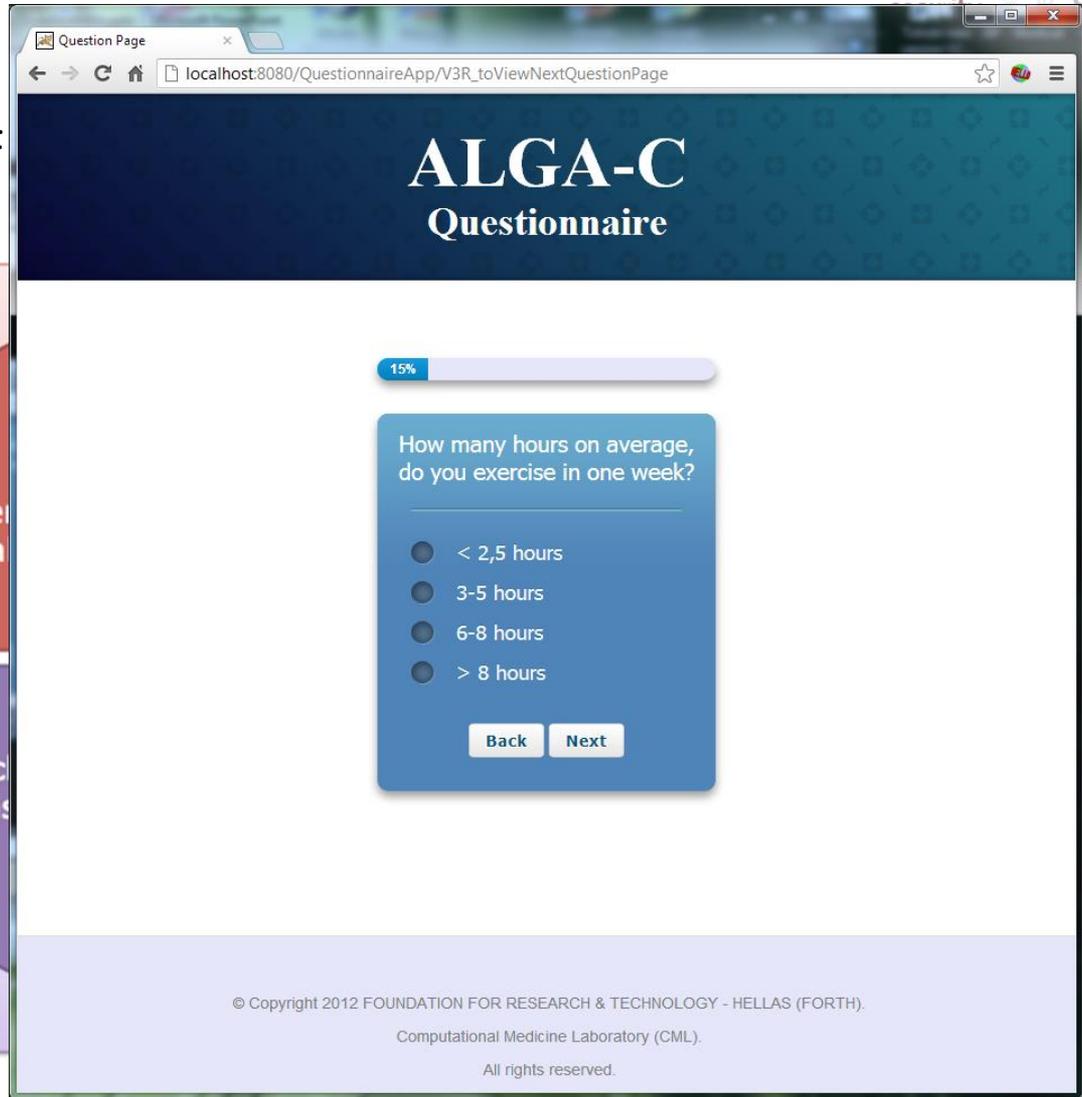
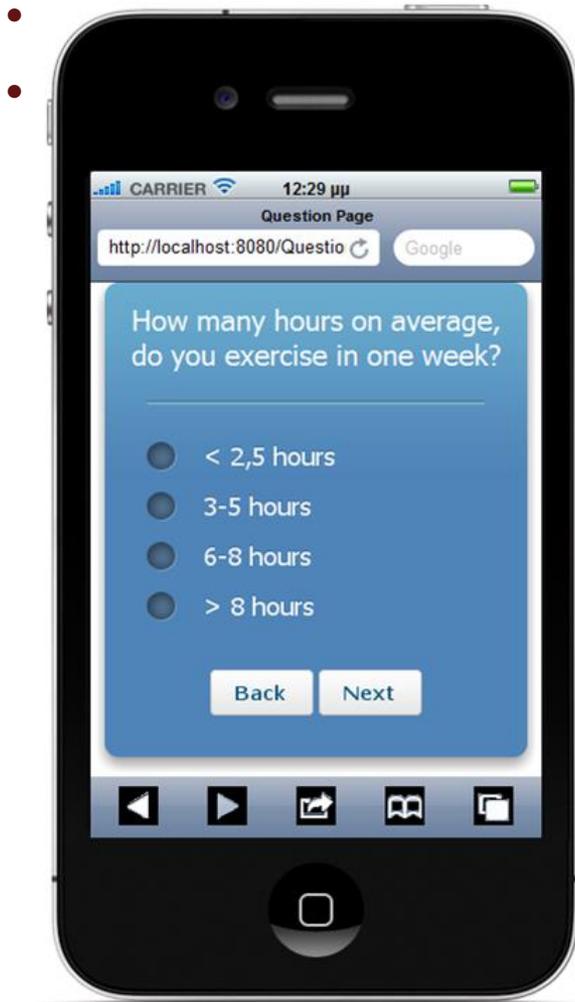


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Profiling Service – Alga - C

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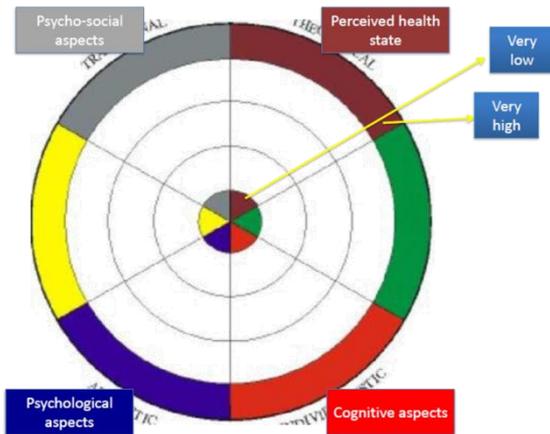


Recommendation Service

Visualize Patient Profile for Doctors

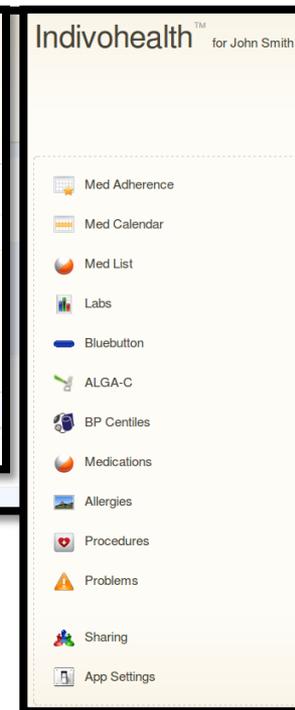
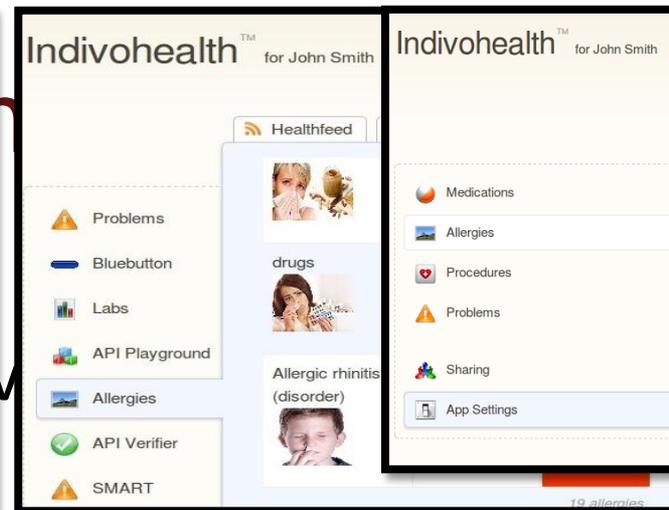
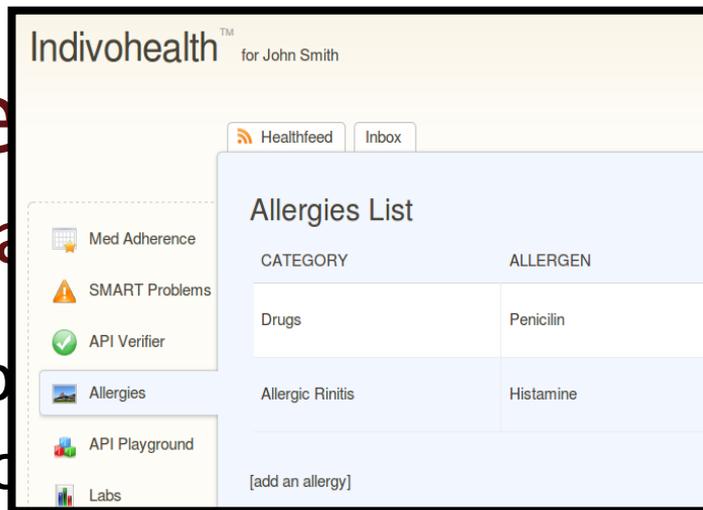


- **Target:** Adjust the content and level of verbal information to the patient's perceived needs (both informational and emotional) and their level of understanding
- **Method:** Visually identify patient profile
- Already initial tests with an oncology population (50)



		Gender	Age	Educ. Level (years)	z-score (mean=0, sd=±1)	Colored scale	description	Communication suggestion
Perceived Health State	GSRH	male	60	8	0.5	● ○ ○	Perception of health state in the average	(*)

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- **Adaptive Presentation:** Personalize the contents presented to the user
- **Adaptive Navigation:** Customize ways by which users complete their tasks in the application
- **Smart Recommendations:** Recommendations using individual profile, similar cases by other patients, inference about user needs and preferences.
- **Intelligent Alerts:** Recognize abnormalities and provide alerts, identify medical errors, hazards

clinician personalized
search ncc
med
info

Recommendation Service

Trial Match

- Efficient **Recruitment** of eligible patients for clinical trials.
- Patient Data & Clinical Trial eligibility criteria are already stored at the **DWN**, annotated with **HDOT** ontology.
- A **matcher** identifies eligible patients for Clinical trials



Conclusions

- Adaptive Presentation & Navigation is currently under implementation.
- Remains to be tested and evaluated using real patients
- Hopefully our platform will act as a decision support infrastructure, supporting the
 - Communication
 - Interaction
 - Information deliveryprocess between doctors and patients



