

PMCOE in a Box Questionnaire 1: Vision for Clinical Care Improvement

As a prospective PMCOE, it is vital for your team to develop a vision of what a successful future with precision medicine looks like. This questionnaire was designed to help guide brainstorming and out of the box thinking in relation to precision medicine. This questionnaire will also serve as a success metric to drive work in the near-term. Work should be able to be tied back to this vision during each step in the formation of the PMCOE.

Proposed PMCOE Name:

1.	What are your department's top challenges for your tree	reatment of patients?	What are the
hu	rdles in increasing patient survival or quality of life? V	What is the best way	to transform
cli	nical care in your field?		

2. What subset of your patients has the worst trajectory?



3. Outside of the PMCOE clinic, how would the new PMCOE advance the standard of care on a national level, using evidence based decision making?

(For example, the MS PMCOE and Johns Hopkins HealthCare partnered with RadNet, the largest nationwide imaging company in the United States. Through collaboration, RadNet is changing their MS imaging protocol to match the MS PMCOE standard. RadNet is also working to deliver de-identified MS images to Johns Hopkins. This collaboration provides improved patient care, lower healthcare costs, and advances the science of medicine.)



Table 1. inHealth Value Matrix

Reputation/ Leadership	Increased Efficiency/ Lower Barriers to Research, Analytics, Synergy	New Grants Using inHealth Resources	New Philanthropy
 Invitations to present at National/International Meetings Invitations to present to government (Hill, State Governments) International prizes Press Papers in premier journals Leading symposia at JH Rankings (e.g. US News) 	 Use of a shared data source by other researchers Use of an analytic method by other researchers Use of analytic software by other researchers Size of research staff activities (less staff, or less manual work, in FTEs) Collaborations with other researchers Delivery of beta version of PMAP Number of active PMAP users Number of data sets delivered through CCDA and PMAP Number of papers published using JH patient data Number of research proposals submitted using JH patient data Number of curated cohort databases used by JH researchers Redcap databases created by CTSA Clinical cohort databases ingested into PMAP 	Number of extramural grants Dollar value of extramural grants	 Direct support for PMCoE or faculty Direct support for inHealth
Improved Efficiency of Care/Improved Reimbursement	Value to Health System and Payers	Value to Pharma	Value to Tech Industry
 Shifting appropriate care out of hospital (inhospital vs nonhospital revenue) Avoiding unnecessary care based on measurement rather than human judgement Out of state patients <value added="" financial="" for="" in="" model="" pmcoe=""></value> 	 Services/Consulting provided to JH, external payers, other health systems based on inHealth analytic methods Average cost of care per patient at JH (esp for EHP, US Family Health Plan, and Priority Partners) Average cost of care per patient at other payers/health systems using inHealth tools, with equal or better health outcomes <other by="" defined="" pmcoes="" propositions="" specific="" value=""></other> 	 Dollar value of collaborations and research support Use of inHealth tools for new trials Use of inHealth tools in Trial Innovation Centers Services/Consulting to Pharma, CROs, etc. to implement inHealth measurements and analytic methods Patients on: New pathways that define subgroups New tools (e.g. to identify trial populations) 	 Existence of a collaboration Applicability of JH findings to general population E.g. Leadership in multicenter consortium for Prostate tool Applicability of JH tools to industry



4. What other opportunities could the new PMCOE pursue to maximize the value of the PMCOEs efforts? (The value matrix in Table 1 helps to brainstorm possible options for capturing value)
5. How would the new PMCOE improve data collection to accelerate these efforts?



6. How would you measure the impact of a precision medicine intervention at Johns Hopkins and internationally?
7. What is the current state of operations and what is the desired state of operations in the PMCOE? (Patient flow, data flow, operational staffing, communication, etc.)



8. How would you describe these efforts to a potential philanthropic donor in under 60 seconds? (Elevator Pitch)
9. Please identify who will fill the following roles:
Director (with responsibility for meeting metrics/goals)
Faculty/Scientific Lead
Data Manager
Data Science – inHealth Resource
Health Economics – inHealth Resource
Health System Business Analysis – inHealth Resource
Project Management – inHealth Resource