Horizon Scanning to Identify Health Care Innovations with High Potential for Disruption

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Background
— We use a transparent, systematic process to scan the health care landscape to identify potentially disruptive health care innovations expected to be available in U.S. clinical care settings within 3 years
— 5 key scanning areas: Alzheimer’s disease and other dementias, cancer, cardiovascular diseases, mental and behavioral health conditions, and rare diseases

Objectives
— Inform PCORI’s patient-centered outcomes research investments
— Create inventory of interventions and health care trends with potential to disrupt patient outcomes, health disparities, care delivery, infrastructure, access, and/or cost

Methods

1. Broad Scanning
   Information specialists identify leads for potential topics
   Analysts review leads to identify topics that meet disruption criteria

2. Leads Review
   Topics nominated, discussed, and voted on by team for inclusion
   Topics with late-phase data sent to stakeholders (patients, caregivers, clinicians, researchers, health system professionals) for comment
   Comments drive topic selection for High Disruption Report

3. Topic Nomination

4. Topic Development

5. Stakeholder Comment

6. High Disruption Report

Patient Engagement Throughout Project Life Cycle
For each topic report, we seek input from at least one patient (or patient representative) and caregiver, and we keep in touch with them to let them know how their inputs are being used.

Selected Patient Stakeholder Comment Themes
- "The 2.5-day length of treatment could be a challenge for women without respite support for their baby, other children, and other dependents…"
- "...A discussion about side effects may get lost in the discussion when survival is the main concern."
- "...Being a third-line treatment option means that the patients will have had to go through 2 prior treatment regimens...That may leave them unable to pay for a third."
- "This is a great opportunity for patients to advocate for themselves, as well as others. I would recommend this to anyone who has been touched by a disease. It really is a great way to be involved."
- "...Wonderful opportunity to preview new studies and represent your perspective as a member of the community."
- "...Provides look to the science to determine benefits but this does not always correlate with patient and caregiver needs. The scanning system could offer immediate feedback from patients…"
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Conclusions
- Since December 2018, we have engaged more than 145 stakeholders, including more than 30 patients and caregivers, who altogether have reviewed more than 50 topic reports
- Future efforts will include the use of social media to more fully engage patients and caregivers in the horizon scanning process