Rapid Cycle Research for Quality Improvement

June 30, 2014

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Dirty secrets of rapid research

Preparation	**Committed team** **Market, Market, Market**	**Influential change leader** **Iterative cycling of people**	**Help the senior leaders** **It is a family disease**
Problem Exploration	**Senior leader advocacy** **Nominal Group Technique**	**Simple aim,** **Walk-through**	**Firm short deadline** **What's it like**
Get Knowledge	**Essential ingredients**	**The best from outside**	**Why, Why, Why**
Solution Development	**Keep simple** **Minimal training**	**Make staff lives better** **Ideal systems**	**Improve customer lives** **What could go wrong**
Solution Adaptation	**Seek/celebrate criticism** **Involve skeptics**	**Strengths/modifications** **Get reactions early on**	**Work w opinion Leaders** **Outside experts endorse**
Testing	**Very few measures**	**Rapid testing/adaption**	**RE-AIM**
Implementation	**Monitor regularly**	**Sustainability leader**	**Customer feedback**

Comparison of standard & rapid cycle research

Research stage	Standard Research	Fast Research
General topic selection	Someone's idea seeking CEO buy in	Select area that helps senior leaders sleep. Iterative sequencing of personnel.
Problem identification	Literature review to see what research is being called for.	Walkthroughs: personally experience Critical Incident: what is it like to be you Nominal group: Key barriers & assets Have a very clear and simple aim
Investigators	Researchers	Executive sponsor. Influential personally responsible leader. Sites invited to apply to participate
Time line	As long as the money holds out	90 days firm, ending w key event or action
Idea generation	Extension of existing research in the field.	Seek similar processes outside the field. Find best of breed. What makes them so good. Blue sky thinking by creative people.
Early review	None	Feedback, early and often Strengths & modifications w leaders What would it take for you to use, if it works.
Measurement and data	Lots of measures Use existing data to approximately measure Validated measures	Pick one (2 at most) measures Tailored to precisely measure key outcome Pilot test the measures
Testing	Long term test with lots of patients	One day test; 3 patients; 1 site; modify; report 2 day test; 6 patients; 2 sites; modify; report One month test; 40 patients; all sites; decide *Maybe recruit from internet*
Communication	At the end	Continuous w leaders, staff, pts, other PBRNs
Publication	Summative results at end (original research)	Barriers/assets (editorial & web site) Idea generation results (tell the Story) Test results (shorter Clinical Correspondence)
Dissemination	Hope someone will decide to use results	Leadership has been on board to use. Share w PBRN sites and other PBRNs

Schedule of Rapid Cycle Research

Day	Wk 1			Wk 2			Wk 3			Wk 4			Wk 5			Wk 6			Wk 7			Wk 8			Wk 9			Wk 10			Wk 11			Wk 12		
Pick topic; Due date; Invite apply	▮	▮	▮																																	
Select leader; helper; team		▮	▮																																	
Schedule walk-thru, NGT			▮																																	
Communicate & coordinate				▮			▮			▮			▮			▮			▮			▮			▮			▮			▮			▮		
Do walk-thru; NGT; Set early review				▮	▮	▮																														
Select Aim; Measure. Set Blue sky						▮																														
ID: similar; best; why so good							▮	▮	▮																											
Blue sky w real alternative										▮	▮	▮																								
Early review w OK to go ahead													▮																							
Adapt idea & measure from review														▮	▮																					
Prepare & schedule testing															▮		▮	▮																		
Test 1 & modify																			▮	▮																
Test 2 & modify																						▮	▮													
Test 3																									▮	▮	▮	▮	▮	▮	▮	▮				
Prepare data																									▮	▮	▮	▮	▮	▮	▮	▮				
Analyze and decide																																▮	▮			
Plan & write report							▮	▮	▮									▮	▮														▮	▮		
Decide next steps w PBRN sites																																	Week 13 ⇒		

AHRQ PCMH Resource Center: Evaluation Tools

Evaluation Tools Include:

► Expanding the Toolbox: Methods to Study and Refine Patient-Centered Medical Home Models

► Contextual Factors: The Importance of Considering and Reporting on Context in Research on the Patient-Centered Medical Home

► Efficient Orthogonal Designs

► Formative Evaluation

► Mixed Methods

… and many more!

For more information and additional tools, visit: http://pcmh.ahrq.gov

Learning Group: Next Steps

Are you interested in participating our learning group on Evaluation Research and Quality Improvement?

- Give us your contact information by completing the PBRN Resource Center handout today

PBRN Resource Center Contact Information:

► PBRN@abtassoc.com

► Toll-Free Phone Line: 1-855-239-2259