

Specifying Implementation Strategies used by Seven Primary Care Regional Cooperatives: Real World Meets Theory

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Background: Implementation Support Strategies

- High quality health care relies on rapid dissemination and implementation of evidence into practice
 - Relies on strategies, which encapsulate the "how to"
- One of the highest priorities is to develop guidance for how to choose and tailor implementation strategies for context
 - Strategies must be described and operationalized
 - Frameworks and taxonomies have been developed to help with this



Proctor Implementation Specifications



ERIC Taxonomy



ESCALATES

Waltz TJ, Powell BJ, Matthieu MM, Damschroder LJ, Chinman MJ, Smith JL, et al. Use of concept mapping to characterize relationships among implementation strategies and assess their feasibility and importance: results from the Expert Recommendations for Implementing Change (ERIC) study. Implementation Science. 2015;10(109).

What's Needed to Move Field Forward

- Little is known about what kinds of ground-level strategies are being used in primary care extensions to help practices make rapid change
- Theoretical frameworks need to be tested and refined using empirical data
 - Some studies have applied ERIC framework and some have used specifications as outlined by Proctor and colleagues



Study Objectives

- 1. Identify implementation strategies used by seven regional cooperatives or extensions
- 2. Use data from these regional cooperatives to empirically test the <u>Expert Recommendations for Implementing Change (ERIC)</u> taxonomy <u>AND</u> guidelines for specifying and reporting implementation strategies recommended by Proctor and colleagues



Study Setting | ESCALATES



Study Setting | AHRQ EvidenceNOW Initiative

















Context Assessment



Integrated Framework | ERIC Taxonomy

Orig ESCALATES Topic	Action	Consensus Strategy	ERIC Cluster
	Monitor improvement over time	Audit and provide feedback	Use evaluative and iterative strategies
3. Audit and			
Feedback			_
	Report of ABCS data is	Audit and provide	Use evaluative and
	reviewed with practice members	feedback	iterative strategies
3. Audit and Feedback			



Consensus Building

Integrated Framework | ERIC Taxonomy + Specification Recommendations

Orig ESCALATES	Action	Consensus S						tification
	Monitor improvement over time	ategy	ERI	Targ	get (Terr Outcome	Justif	ication th
3. Audit and Feedback		vide	Use and	Clin	icialinical	Quan Documentation of AB	CS Pract	ices need to
	Report of ABCS data is reviewed with practice members	A. feedbac	iterative .	Facinta	m	audits (some	data	improve
3. Audit and Feedback						vendors; data may be available from HVH Evaluation Team depending on timing		
	Monitor improvement over time	Audit and provide feedback	Use evaluative and iterative strategies	Practice Facilitators	Clinicians and Clinica Team	Varies depending on Practice Varies by availability of report Facilitator's ability to get data during visits from EHR/IT system or EHR vendors; data may be available	rts; Delivery of ABCS	Practice need to see the data to motivate them t improve
3. Audit and Feedback						from HVH Evaluation Team depending on timing		
	Report of ABCS data is generated with practice members	Audit and provide feedback		Practice Facilitators	Clinicians and Clinica Team	Varies depending on Practice Varies by availability of report Facilitator's ability to get data during visits from EHR/IT system or EHR vendors; data may be available	rts; Delivery of ABCS	Practice need to see the data to motivate them to improve
3. Audit and Feedback						from HVH Evaluation Team depending on timing		
	Review ABCS data from dashboard or EHR	Audit and provide feedback		Practice Facilitators	Clinician and Clinical Team	Quarterly moving to monthly Reviewed at visit (Spring 2017) ABCS feedback Image: Compare the second secon	ABCS Improvement	Data drives change, and practices need to see the
						from EHR; dashboards updated monthly	Efficient use of dashboards Use of data for QI	data to motivate them to improve
3. Audit and Feedback							ABCS Documentation	
3. Audit and Feedback	Monitor improvement over time	Audit and provide feedback		Practice Facilitators	Clinician and Clinical Team	Quarterly moving to monthly Reviewed at visit (Spring 2017) ABCS feedback from EHR; dashboards updated	ABCS Improvement Efficient use of dashboards	Data drives change, and practices need to see the data to motivate them to

Cross Cooperative Data Matrix

	Name it (using ERIC+)			Key Specify It						
ESCALATES TOPIC	ERIC Cluster	ERIC Discrete Strategy	Define it (ERIC+)	Yes Actor	Specific Action(s)	Target	Temporality	Dose	Outcomes	Justification
Audit & Feedback, Faciltitation	Use evaluative and iterative strategies	Audit and Provide Feedback	Collect and summarize clinical performance data over a specified time period and use it to monitor, evaluate, and modify provider behavior	MW PF NC PF NYC PF NW PF; HIT-PF OK PF; HIT-PF SW PF; HIT-PF VA PF	Share ABCS data for feedback and monitor improvement over time. Most used ABCS data for A&F, however NW and OK included survey items and other sources of data for feedback.	Practices, but especially clinician and QI team	quarterly to more continuous use for those Cooperatives with dashboards/	during visit: time as needed	Improved ABCS measures	Practices need to see their own data to be motivated to change;
Learning Collaborative/Peer-to- Peer, Online Learning, Community Engagment,	Develop stakeholder interrelations	Promote Network Weaving	Identify and build relationships and networks to promote info sharing, collaborative problem solving, and a shared vision/goal related to implementing the innovation.	MW practices, NC facilitated by Cooperative practices, NYC facilitated by Cooperative NW OK SW practices, VA facilitated by Cooperative	Encourage networking between practices to build a clinical community for best practices; NYC and VA also have online sites for networking.	Attending practices	Varies by events	Varies by type of event; an hour to a full day.	Peer learning and support, knowledge of evidence- based guidelines and best practices	Increase engagement and learning through interaction with peerrs
		Community Resource Engagement		WIW practices, community orgs, facilitated by PF NC practices, community orgs, facilitated by PF NW practices, community orgs, facilitated by PF and extension agent practices, community orgs, facilitated by practices, SW community orgs, facilitated by extension agent VA VA	Build links between practices and health resources embedded in those communities; varies in formality from meetings with community organizations to referral programs.	Practices and community orgs	Varies	Varies could be mention to an hour meeting	Improved care delivery and referrals to resources patients can access	Use of local resources by practices and patients help improve ABCS and patient care



Strategies used by Cooperatives



Interdependence Among Strategies



Interdependence Among Strategies



Meta-Strategy | Practice Facilitation

	Table 3 ERIC discrete implementation strategy of	ompilation (n = 73)	Table 3 ERIC discrete implementation strategy compilation (n = 73) (Continued)			
	Strategy	Definitions	Develop academic patnerships	Partner with a university or academic unit for the purposes of shared training and		
	Access new funding	Access new or existing money to facilitate the implementation		bringing research skills to an implementation project		
	Alter incentive/allowance structures	Work to incentivize the adoption and implementation of the dinical innovation	Develop an implementation glossary	Develop and distribute a list of terms describing the innovation, implementation, and stakeholders in the organizational change.		
	Alter patient/consumer fees	Greate fee structures where patients/consumers pay less for preferred treatments (the clinical innovation) and more for less-preferred treatments	Develop and implement tools for quality monitoring	Develop, test, and introduce into quality-monitoring systems the right input—the		
	Assess for readiness and identify barriers and facilitators	Assess various aspects of an organization to determine its degree of readiness to implement, barriers that may impede implementation, and strengths that can be used in the implementation effort		patient/konsume outcomes and implementation outcomes) that are often specific to the innovation being implemented		
	Audit and provide feedback	Collect and summarize clinical performance data over a specified time period and give it to clinicians and administrators to monitor, evaluate, and modify provider behavior	Develop and organize quality monitoring systems	Develop and organize systems and procedures that monitor clinical processes and/or outcomes for the purpose of quality assurance and improvement		
	B-2 coalition	Recruit and cultivate relationships with partners in the implementation effort	Develop disincentives	Provide financial disincentives for failure to implement or use the dinical innovations		
	Capture and share local in owledge	Capture local knowledge from implementation sites on how implementers and diricians made something work in their setting and then share it with other sites	Develop educational materials	Develop and format manuals, toolitis, and other supporting materials in ways that make it easier for stakeholdes to learn about the innovation and for dinicians to learn how to deliver the dinical innovation		
	Centralize technical assistance	Develop and use a centralized system to deliver technical assistance focused on implementation issues	Develop resource sharing agreements	Develop partnenhips with organizations that have resources needed to implement the innovation		
	Charge secreditation or membership requirements	Strive to alter accreditation standards so that they are or encourage use of the dirical innovation. Work to alter one to explore organization requirements so that those who want to city, with the organization are encouraged or required to	Distribute educational materials	Distribute educational materials (including guidelines, manuals, and tooliits) in person, by mail, and/or electronically		
	Change liability laws	use the interation innovation Participate in liability reform efforts that make diricians more willing to deliver the	Fadiltate relay of clinical data to providers	Provide as close to real-time data as possible about key measures of process/outcome using integrated modes/dhannels of communication in a way that promotes use of the targeted innovation		
	Change elg. Sur structure and equipment	dinical innovation Evaluate current configurations and adapt, as needed, the relation of the advance and/or provinces for discussion the length of the	Fadiltation	A process of interactive problem solving and support that occurs in a context of a recognized need for improvement and a supportive interpersonal relationship		
	Change record systems	equiplieri (eg., charging interdention accommodifier blass — great information Charge records systems to allow better assessment of implementation or clinical	Fund and contract for the dinical innovation	Governments and other payers of services issue requests for proposals to deliver the innovation, use contracting processes to motivate providers to deliver the dirical innovation, and develop new funding formulas that make it more likely		
		outcomes		that providers will deliver the innovation		
	Conduct cyclical small tests of chance	Charge the loaten of classifier and an Uncesse access implement danges in a cyclical fashion using small tests of dange before taking charges system-wide. Eves of change benefit from systematic measurement and	Identify and prepare champions	Identify and prepare individuals who dedicate themselves to supporting, marketing and driving through an implementation, overcoming indifference or resistance that the intervention may provoke in an organization		
		results of the tests of change are studied for an grant or now to do better. This constructs stenaity over time, and refinement is added with each cycle	Identify early adopters	Identify early adopters at the local site to learn from their experiences with the practice innovation		
	Condent of contents recearings	Hold meetings targeted toward different stakeholder groups (e.g., provides, administrator, other constrations and and the starting patent consume, and some stateholders) to task them about the circlail innovation	inv ase demand	Attempt to influence the market for the clinical innovation to increase competition intensity and to increase the maturity of the market for the clinical innovation		
	Conduct educational outreach visits	Have a trained person meet with provides in their practice settings to educate providers about the dinical innovation with the intent of changing the provider's practice	Inform local opinion leaders	Inform provides: identified by colleagues as opinion leaders or "educationally influential" about the dinical innovation in the hopes that they will influence colleagues to adopt it		
	constant level consensus discussions	Include local provides and other stakeholders in discussions that address whether the chosen problem is important and whether the clinical innovation to address it	Intervene with patients/consumers to enhance uptake and adherence	Develop strategies with patients to encourage and problem solve around adherence		
	Conductineess - Association	Collect and analyze data related to a model for the innovation	Involve executive boards	Involve existing governing structures (e.g., boards of directors, medical staff boards of governance) in the implementation effort, induding the review of data on implementation processes		
	Conduct ongoing training	Plan for and conduct training in the clinical innovation in an ongoing way	Involve patients/consumers and family members	Engage or include patients/consumers and families in the implementation effort		
	Create a learning, Suborative	Facilitate in a formation of groups of provides or provider organizations and foster a collaboration learning formation of the closed	no- olling easier	Make it easier to bill for the clinical innovation		
	Create one dirical terms	imovation	Make training dynamic	Vary the information delivery methods to cater to different learning styles and work contexts, and shape the training in the innovation to be interactive		
	COME TRY GENCE WITH	shills to make it more surplated the clinical innovation is delivered (or is more successfully delivered)	Modate change	Have leadeship declare the priority of the innovation and their determination to have it implemented		
Due eties	Create or change credentialing and/or licensure standards	Create an organization that certifies dinicians in the innovation and exourage an	Model and simulate change	Model or simulate the change that will be implemented prior to implementation		
Practice		existing organization to do so. Change governmental professional certification so licensure requirements to include delivering the innovation. Work to alter continuing education requirements to shape professional practice toward the innovation	Obtain and use patients/consumers and family feedback	Develop strategies to increase patient/consumer and family feedback on the implementation effort		
Indefiee	Develop a formal implementation blueprint	Develop a formal implementation blueprint that includes all goals and strategies. The blueprint should include the following: 1) aim/purpose of the implementation;	Cottain formal commitments	Obtain written commitments from key partners that state what they will do to implement the innovation		
		2) scope of the charge (e.g., what organizational units are affected); 3) timeframe and milestones; and 4) appropriate performance/progress measures. Use and update this plan to guide the implementation effort over time	Organize clinidan implementation team meetings	Develop and support teams of clinicians who are implementing the innovation and give them protected time to reflect on the implementation effort, share lessons learned, and support one another's learning		
Eacilitation						
Facilialion						



Recommended Refinements to ERIC Taxonomy

- Refining definition and/or name for 8 strategies
 - Develop implementation tools for quality monitoring; develop and organize quality monitoring systems; audit and feedback; change record systems; fund, contract for clinical innovation; organize clinician implementation teams meetings; develop and distribute implementation toolkit; conduct ongoing training
- Adding 3 strategies
 - Community resource engagement, create online learning communities, redesign workflow



Conclusions & Future Directions

- Some Strategies are not mutually exclusive
 - Meta-strategies are comprised of discrete strategies
 - Discrete strategies may be sequenced or tailored
- Some ERIC terms did not completely describe EvidenceNOW implementation activities
 - Some definitions needed to be expanded



Conclusions & Future Directions

- Integration of ERIC taxonomy and Specification Recommendations
 - Valuable to harmonize language across multiple settings/studies
 - Useful for prospective planning and retrospective reporting

Refine theory with use empirical data creates more robust theory
Apply in large scale and diverse studies



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