Using Implementation Science to Improve Research and Practice in K-12 Schools

Center for Behavioral Education & Research

Lisa Sanetti, PhD Department of Educational Psychology

Evidence-based Practices







Time lag and knowledge gap from research to practice







Implementation Science

"...scientific study of methods to promote the systematic uptake of research findings and other evidence-based practices into routine practice...to improve the quality and effectiveness of...services"

(Eccles & Mittman, 2006, p.1)



Implementation Science





Theories, Models, Frameworks (Nilsen et al., 2015, p.3-4)





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Implementation Outcomes (Proctor et al., 2011)



*IOM Standards of Care

Implementation Measurement





Implementation Strategies & Tailoring

Strategy	Definitions
Access new funding plementation strategiese are thie methodistor techniques	
Alter incentive/allowance structures USed to enhance the ad	Work to incentivize the adoption and implementation of the clinical innovation Option, implementation, and Create fee structures where patients/consumers pay less for preferred treatments
Sustainability of clinical Assess for readiness and identify barriers and facilitators	(the clinical innovation) and more for less-preferred treatments Program Or Practice . (Proctor et al. 2013) 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
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
Build a coalition	Recruit and cultivate relationships with partners in the implementation effort
Capture and share local knowledge	Capture local knowledge from implementation sites on how implementers and clinicians made something work in their setting and then share it with other sites
Centralize technical assistance	Develop and use a centralized system to deliver technical assistance focused on implementation issues
Change accreditation or membership requirements	Strive to alter accreditation standards so that they require or encourage use of the clinical innovation. Work to alter membership organization requirements so that those who want to affiliate with the organization are encouraged or required to use the clinical innovation

Implementation Research Designs

Hybrid type I Test clinical intervention while gathering information on implementation Hybrid type II Test clinical intervention while studying implementation strategy Hybrid type III Test implementation strategy while gathering information on clinical intervention

Summary

- Implementation science has developed quite a robust literature since 2006
- Great deal of the research and approaches are applicable to education research, but are not being utilized widely.
- May be able to increase public health benefits of educational interventions by attending to implementation science research.