

Additional file 1: Initial and sustained implementation strategies, organized with the Expert Recommendations for Implementing Change (ERIC; Waltz et al 2019). Bolded sustainment strategies indicate those continued to present (2021).

Implementation Strategy	Initial Implementation Strategies (2015-2016)	Sustainment Strategies (2017-2019)
ERIC Cluster 1: Use evaluative and iterative strategies	Assess for readiness and identify barriers and facilitators	
	<ul style="list-style-type: none"> • Small group of stakeholders informally discussed their views 	<ul style="list-style-type: none"> • Stakeholder meetings with entire clinical team at one site and interview off-site champions and managers • Periodic assessment in monthly meetings with champions • Plan to continue gathering input from PDMD clinical champion meetings.
	Audit and provide feedback	
	<ul style="list-style-type: none"> • Two therapists compared performance 	<ul style="list-style-type: none"> • Provide one page document of feedback after initial three sessions with participant within 3-5 days. • Champions to perform three audits/year.
	Purposefully reexamine the implementation	
	<ul style="list-style-type: none"> • Informally with communication between two therapists 	<ul style="list-style-type: none"> • Facilitator &/or program manager attend to feedback at champion meetings allowed for dynamic changes while maintaining the fidelity of the program. • Utilization of Sustainability Assessment Tools with stakeholders to assess the program
	Develop implement tools for quality monitoring	
	<ul style="list-style-type: none"> • Two therapists compared documentation of physical activity • PAPT user survey • Clinical outcomes manually reviewed 	<ul style="list-style-type: none"> • PAPT user survey repeated • Clinical outcomes manually reviewed • Development of documentation for PA for easy clinician review .
	Develop and organize quality monitoring systems	
	<ul style="list-style-type: none"> • Two therapists develop survey for PAPT users 	<ul style="list-style-type: none"> • Survey updated for PAPT users by clinicians • Program managers plans to use organizational survey data
Develop a formal implementation blueprint		
<ul style="list-style-type: none"> • Care path developed 	<ul style="list-style-type: none"> • Continued care path • Grid created to aid in scaling to other disciplines & in the development of PAPT at additional sites. 	
Conduct local need assessment		
<ul style="list-style-type: none"> • Informal discussions with stakeholders 	<ul style="list-style-type: none"> • Focus group, interviews with stakeholders. • Multiple stakeholder groups meet regularly, some institutional processes already in place (e.g. regular PDMD 	

(continued)		champions meet, leadership meetings meetings)
ERIC Cluster 1: Use evaluative and iterative strategies	Obtain and use patients/consumers and family feedback.	
	<ul style="list-style-type: none"> • Interview performed with Year 1 PAPT users 	<ul style="list-style-type: none"> • Interviews performed with those PAPT users seen during Year 3
ERIC Category 2: Provide interactive assistance	Facilitation	
	<ul style="list-style-type: none"> • Two therapists worked together 	<ul style="list-style-type: none"> • Formal facilitator role created • Program manager to continue to engage this population, work with champions
	Provide Local Technical Assistance	
	<ul style="list-style-type: none"> • Informal 	<ul style="list-style-type: none"> • Informal
	Provide Clinical Supervision	
	<ul style="list-style-type: none"> • Limited supervision, mostly self- review 	<ul style="list-style-type: none"> • Chart audit on first three sessions • Periodic review or support when requested • Institutional mentorship programs to support clinicians
	Centralize Technical Assistance	
	<ul style="list-style-type: none"> • Informal 	<ul style="list-style-type: none"> • Informal
ERIC Cluster 3: Adapt and tailor to context	Tailor strategies	
	<ul style="list-style-type: none"> • Strategies tailored to some stakeholders 	<ul style="list-style-type: none"> • Tailor strategies to multiple stakeholders, multiple sites with input from a variety of stakeholders • Strategies to be updated by champions with input from program manager as needed.
	Promote adaptability	
	<ul style="list-style-type: none"> • With only two therapists, change could be discussed and implemented 	<ul style="list-style-type: none"> • Feedback taken with initial interviews, monthly meetings. • Regular communication allowed for a flexible time table based on clinic volumes • Utilized electronically shared resources • Review of patient outcomes, quality improvement interviews aid in process improvement.
	Use data experts	
	<ul style="list-style-type: none"> • Knowledge broker 	<ul style="list-style-type: none"> • Knowledge broker
ERIC Cluster 4: Develop stakeholder interrelationships	Identify and prepare champions	
	<ul style="list-style-type: none"> • Managers identified therapist 	<ul style="list-style-type: none"> • Leadership identify champions
	Organize clinician implementation team meetings	
	<ul style="list-style-type: none"> • Informal 	<ul style="list-style-type: none"> • Monthly meetings set • Champion meetings
	Recruit, designate, and train for leadership	
	<ul style="list-style-type: none"> • One PT identified by lead researcher & manager 	<ul style="list-style-type: none"> • Team of three attend Knowledge Translation summit, other attend PD-related course • Plans champion orientation, webinars, and journal club participation.
	Inform local opinion leaders	

(continued) ERIC Cluster 4: Develop stakeholder interrelationships	<ul style="list-style-type: none"> Interviews with key referrers, OP manager, therapist 	<ul style="list-style-type: none"> Interviews/focus groups before implementation, intermittent updates to team PAPT updates included in physician leader's monthly updates.
	Build a coalition	
	<ul style="list-style-type: none"> Attended meetings with referrers 	<ul style="list-style-type: none"> Engaged stakeholders of the entire OP team Network of champions at each site, engaged with leadership.
	Obtain formal commitments	
	<ul style="list-style-type: none"> Not applied 	<ul style="list-style-type: none"> Champion role commitment
	Identify early adopters	
	<ul style="list-style-type: none"> Manager identified one staff 	<ul style="list-style-type: none"> Managers and implementation identified champions Champions worked with managers to identify other therapists to be trained
	Conduct local consensus discussions	
	<ul style="list-style-type: none"> Discussions with referrers at collaborative meetings 	<ul style="list-style-type: none"> Focus groups with therapists, managers Quality Improvement interviews with PAPT users Monthly meetings with champions
	Capture and share local knowledge	
	<ul style="list-style-type: none"> Not applied 	<ul style="list-style-type: none"> Champions provide insight and contributions.
	Use an implementation advisor	
	<ul style="list-style-type: none"> Knowledge broker involved. 	<ul style="list-style-type: none"> Knowledge broker facilitates team attendance to Knowledge Translation Summit Support from knowledge translation mentors
Visit other sites		
<ul style="list-style-type: none"> Not applied 	<ul style="list-style-type: none"> Planned, but not accomplished by our immediate team. PD program manager visits to assess & support settings. 	
Develop an implementation glossary		
<ul style="list-style-type: none"> Not applied 	<ul style="list-style-type: none"> Informal, general protocol developed Dissemination toolbox 	
Develop academic partnerships		
<ul style="list-style-type: none"> Researcher from academic center collaborates with clinical team 	<ul style="list-style-type: none"> Collaboration with research & clinical team Team engaged with organization internal staff development. 	
ERIC Cluster 5: Train and evaluate stakeholders	Train and educate stakeholders	
	<ul style="list-style-type: none"> Referral development: Targeted academic medical center neurologists 	<ul style="list-style-type: none"> Referral Development: Developed new materials to target community neurologists Share materials and highlight key statements for marketing material in dissemination toolbox
	Provide ongoing consultation	

(continued) ERIC Cluster 5: Train and evaluate stakeholders	<ul style="list-style-type: none"> Two therapists discussed regularly 	<ul style="list-style-type: none"> Knowledge broker, facilitator available for questions, attended meetings regularly Champions meet regularly Access to mentoring
	Develop educational materials	
	<ul style="list-style-type: none"> Materials for PAPT Users: Shared decision making handout Materials for therapists: evaluation plan for therapist 	<ul style="list-style-type: none"> Materials for PAPT Users: shared decision making handout (updated every two years), progression handouts Material for therapists: presentation, training resources, webinar for therapist
	Make training dynamic	
	<ul style="list-style-type: none"> One co-treatment session 	<ul style="list-style-type: none"> Presentation converted to webinar Shadowing Questions for therapists
	Distribute educational materials	
	<ul style="list-style-type: none"> Two therapists shared materials 	<ul style="list-style-type: none"> Shared folder Tool box with important materials
	Use train-the-trainer strategies	
	<ul style="list-style-type: none"> Two therapists collaborated 	<ul style="list-style-type: none"> Trained champions train other staff at home site
	Conduct educational meetings	
	<ul style="list-style-type: none"> Informal 	<ul style="list-style-type: none"> Monthly PAPT meetings Planned champion meetings
	Conduct educational outreach visits	
	<ul style="list-style-type: none"> Not applied 	<ul style="list-style-type: none"> Presentations at affiliate hospital
Shadow other experts		
<ul style="list-style-type: none"> Two therapists co-treat 	<ul style="list-style-type: none"> Shadowing is part of the training Plan to continue to shadow with training, happening with OT & SLP teams 	
Work with educational institutions		
<ul style="list-style-type: none"> Affiliate medical center team 	<ul style="list-style-type: none"> Knowledge Translation Summit Internal staff development, clinical programs at organization and affiliate medical center. 	
ERIC Cluster 6: Support Clinicians	Facilitate relay of clinical data to providers	
	<ul style="list-style-type: none"> Clinicians assisted with quality improvement data collection 	<ul style="list-style-type: none"> Clinician champions worked on implementation materials, monthly meetings provided opportunity for information, clinicians presented data at national conference platform and poster Champions and leaders will now do this.
	Remind clinicians	
	<ul style="list-style-type: none"> Informal 	<ul style="list-style-type: none"> Monthly meetings provided an opportunity for champion discussion and reminders.
Develop resource sharing agreements		

(continued) ERIC Cluster 6: Support Clinicians	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Staff collaborated on resources (no formal agreements)
	Revise professional roles	
	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Manager role developed by the organization who acted as an advocate for the program.
ERIC Cluster 7: Engage consumers	Create new clinical teams	
	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Champion team, clinical teams
	Involve patients/consumers and family members	
	<ul style="list-style-type: none"> • Interviewed 2016 attendees for feedback 	<ul style="list-style-type: none"> • Interviewed 2018 PAPT users and shared quality improvement feedback with clinicians • Informal reflections from trained clinicians at monthly meetings.
	Intervene with patients/consumers to enhance uptake and adherence	
	<ul style="list-style-type: none"> • Evaluations & relationship with patients/consumers foster better adherence 	<ul style="list-style-type: none"> • Evaluations & relationship with patients/consumers
	Prepare patients/consumers to be active participants	
	<ul style="list-style-type: none"> • Strong relationship 	<ul style="list-style-type: none"> • Strong relationship
ERIC Cluster 8: Utilize Financial Structures	Increased demand	
	<ul style="list-style-type: none"> • Educate referrers 	<ul style="list-style-type: none"> • Marketing resources for individuals with PD, external referrers
	Fund and contract for the clinical innovation	
	<ul style="list-style-type: none"> • Internal department funds • Parkinson's Foundation Grant 	<ul style="list-style-type: none"> • Grant funding through Academy of Neurologic Physical Therapy. • General clinic specific organizational funds • Marketing department • Internal Academy
	Access new funding	
ERIC Cluster 9: Change Infrastructure	<ul style="list-style-type: none"> • Parkinson's Foundation Grant 	<ul style="list-style-type: none"> • Knowledge Translation Summit Grant
	Mandate change	
	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Applied with support from organizational leaders
	Change record systems	
	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Outcome Measure added: Mini-BESTest • In process: Physical Activity
ERIC Cluster 9: Change Infrastructure	Change service sites	
	<ul style="list-style-type: none"> • Not applied 	<ul style="list-style-type: none"> • Three additional locations added to increase reach

*PDMD: Parkinson's disease and Movement Disorders, PAPT: ProActive Physical Therapy, Parkinson's disease (PD)