

Importance of informal care partner participation in interventions for people living with Parkinson's disease

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for Parkinson's an initiative of Poise Project

BACKGROUND & OBJECTIVE

- Alexander technique (AT) is a cognitive embodiment approach focusing on attention, inhibition, and body schema as a means of improving patient coordination, functional performance, and confidence during daily life.1,2 We previously reported benefits for people living with Parkinson's disease (PWP) at post-course and
- at 6 month follow up after adaptive AT group courses delivered both in person and online.^{3,4} We included care partners (CPs) in the courses to study the impact of their participation on the dyadic relationship and on PWP symptom management.
- **DESIGN & INTERVENTIO**
- 4 in-person courses and 3 online courses for North and South Carolina participants met for 90-105 minutes twice a week for 8-9 weeks



AT principles were embedded in daily activities: walking, talking, sit-to-stand and floor-to-stand transitions, IADLs

Coursework included functional anatomy and selfmanagement skills taught via verbal and manual instruction, demonstration, anatomical models and images, and partnered activities

PARTICIPANTS

35 PWP/CP dyads total (34 married; 1 friend) · 6 PWP without CP total

Table only includes participants who completed the courses						
Demographics	PWP	СР				
Age	67 ± 8	66 ± 7.5				
Sex	17M 12F	10M 18F				
Race	White (27)	White (27)				
(Ethnicity:	Black (1)	Black (1)				
Non Hispanic)	Asian (1)					
	Retired (19)	Retired (15)				
	Working (1)	Working (12)				
Employment	Unemployed (1)	Unemployed (1)				
	Disabled (7)					
	Not reported (1)					
Hoehn & Yahr	Stages 1-3	N/A				
	5.3 ± 4	N/A				
Years Diagnosed	Range: 1-6 (18)					
	7-10 (6)					
]	11-13 (4)					
	\$15,000 \$49,99					
Household	\$50,000 \$99,999 (16)					
Income	\$100,000 \$199	,999 (25)				
	\$200,000 \$399,999 (1)					
	Not Reported	(3)				

OUTCOME MEASURES



Functional reach, one-leg stance, TUG, 7-item Physical Performance Test, symptom-management self-report, anonymous course evaluations, and head-neck angles were previously reported.3,4 This report focuses on course attendance and completion, 6-month follow up data results, evaluations, and semi-structured interviews



Dyad 17

- Stallibrass, C., Frank, C., & Wentworth, K. (2005). Retention of skills learnt in Alexander technique lessons: 28 people with idiopathic Parkinson's disease. Journal of Bodywork and Movement Therapies, 9(2), 150-157

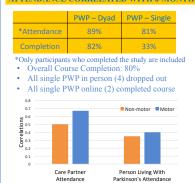
- Factation 3 succase. Journal of Docywork and Provention Treatings. (20), 150-157. Glover, L., et al. (2018). "I never thought I could do that...": Findings from an Alexander Technique pilot group for older people with a fear of falling. *European Journal of Integrative Medical (17, 79-85.* Gross, M., et al. (2020). Poised for Parkinson's' Retention of Benefits from Alexander Technique Group Course for People Living with Parkinson's Disease. Archives of Physical Medicine and Rehabilitation, 12e149 Gross, M., et al. (2022). Adapting an in-person cognitive embodiment course to online delivery for people living with Parkinson's disease and their care partners. *Movement Disorders Clinical Practice*.

Dyad	# CP Attende d	# PWP Attended	NM — PWP	NM — CP	M — PWP	М — СР
Dyad 1	18	18	4	-2	8	-1
Dyad 2	17	17	6	3	13	7
Dyad 3	16	17	-1	-3	13	-7
Dyad 4	16	16	2	-2	3	-2
Dyad 5	16	16	4	N/A	1	0
Dyad 6	16	16	1	5	2	4
Dyad 7	15	18	4	0	13	8
Dyad 8	14	14	-1	2	-5	12
Dyad 9	14	16	5	0	10	-3
Dyad 10	13	12	1	-1	2	-4
Dyad 11	13	15	0	N/A	7	0
Dyad 12	12	15	3	-4	3	-4
Dyad 13	12	12	-1	-5	-3	-7
Dyad 14	11	13	1	2	8	-1
Dyad 15	11	12	4	1	12	6
Dyad 16	9	14	-2	-2	-5	-1
Dyad 17	5	14	2	0	0	6
Dyad 18	4	15	-5	6	-17	11
Dyad 19	4	13	1	-2	-8	8

CARE PARTNER ATTENDANCE CORRELATES WITH 6 MONTH FOLLOW UP IMPROVEMENT

Positive values show reported improvement at 6 months Negative values show reported worsening at 6 months Dark Teal = Online courses. Light Teal = In-person courses Only participants that completed 6-month follow-up were included

ATTENDANCE CORRELATED WITH 6-MONTH SYMPTON MANAGEMENT IMPROVEMENT



SEMI-STRUCTURED INTERVIEWS

At 6-month follow up, most dyads reported better

communication, patience, and compassion for each

other, as well as a greater understanding of the impact

living with Parkinson's had on both of their daily lives.

Dvad

Dyad 8

Dyad 9

RESILTS

· Dyads are arranged in descending order according to how many classes the CP attended in the table to the left.

- The difference between pre-course and 6-month follow-up scores was totaled based on PWP and CP responses to symptom management surveys using a Likert scale.
- · Non-motor issues (NM) of confidence. independence, emotional self-control, anxiety, and pain were selected due to their impact on dyadic relationships.
- · Motor issues (M) included bradykinesia, tremor, rigidity, shuffling gait, balance, upright posture, vocal volume, fine motor skills, handwritring, and rolling over.
- · Data indicates long-term retention of benefits for PWP at 6 months is associated with how many times the CP attended the course
- A stronger correlation was found for CP attendance than for PWP attendance



motor Symptom nagemen. Mar ^b R=0.50 • Attendance of Care Partner Symptom Management notor R=0.35 lo 13 11 Attendance of Person Living with Parkinson's

RESULTS – POST COURSE EVALUATION FORM

Post course, both PWP and CPs expressed improvement in their relationship on 0-10 Likert scale. Higher score means greater statement agreement.

Anonymous Evaluation Form Results		CP Avg.				
The class was enjoyable.	7.8	8.4				
I feel better prepared for the daily demands of living with Parkinson's/being a care partner.	8.1	8.7				
I feel my care receiver is better prepared for the daily demands of living with PD.	N/A	8.4				
*I feel my partner is better prepared for the present and future daily challenges of being my care partner.	8.4	N/A				
*I feel my partner has a better understanding of my experiences and challenges while living with PD.		6.2				
*I feel I have a better understanding of my partner's experiences and challenges while living with PD.		8.0				
*I feel we have a new shared vocabulary to meet the present and future challenges of living with PD.		8.7				
*only 7 Dyads were asked these questions						
CONCLUSIONS						
Including care partners in interventions for people						

living with Parkinson's disease can improve course attendance, course completion, longterm symptom management and foster better dyadic relationships

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