

Abstract 199

Guided Poster Tour: Group Four Saturday, 10 February 2024 13:00-14:30

Also presenting author will be at poster Friday, 9 February 2024, 13:00-14:30

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



Category: Allied Healthcare, Physical Therapy, Rehabilitation, Quality of Life / Caregiver Burden

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Objective:

We previously reported benefits, post-course and at 6 months, of in-<u>person</u> and online adapted Alexander technique (AT) based group courses for people living with Parkinson's (PWP). Now we focus on two aspects of dyadic relationship between PWPs and care partners (CPs): 1) how inclusion of informal CPs facilitates course attendance and retention; and 2) how couple participation enhances dyadic relationships.

Background:

AT is a cognitive embodiment approach. Once learned, AT principles are applied moment-to-moment during daily life. We included CPs in AT-based in-person and online group courses for PWP.

Methods:

Design: CPs joined in-person and online AT-based group courses for PWPs. 7 groups (4 In-person; 3 Online) met 90-105 minutes, 2X/week, over 8 or 9 weeks. Participants: 35 PWP/CP dyads (34 married; 1 friend), and 6 PWP without CP. Intervention: Courses met in community spaces or in-home via Zoom. Coursework included functional anatomy and self-management skills taught via verbal instruction, demonstration, anatomical models and images, and partnered activities. AT principles were embedded in everyday activities: walking, talking, sit-to-stand transitions, and IADLs. Review handouts were shared. Participants were not paid. 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. The present report focuses on course attendance and completion data, and semi-structured participant interviews.

Results:

Overall Attendance was 83%. When CP attended regularly, PWP also had better attendance. Overall Completion was 80%. Out of 35 dyads, 3 dropped out (2 due to illness), and 1 PWP with OCD dropped out, although her CP chose to complete the course. Thus, completion for PWPs with CPs was 89% while for 6 PWPs without CPs, 4 dropped out (33% completion rate). Interviews: Most dyad participants reported improved communication, enhanced patience, increased empathy, and greater understanding of the impacts PD had on each other's lives as a result of taking the course together.

Conclusions:

Including CPs in interventions for PWPs can improve outcomes, both in course attendance and completion, and also in improved dyadic relationships. 6 month follow-up data is being analyzed to assess impact on retention of benefits for PWPs who had highly motivated CP support.



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

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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.





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.

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

Table only includes participants who completed the cours

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





REFERENCES

- 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.
 [Glover, L., et al. (2018), "Inever thought I could do that...". Findings from an Alexander Technique pilot group for older people with a fear of falling. European Journal of Integrative Medicine, 17, 79-85.
 [Gross, M., et al. (2020), Poissed for Parkinson's "Retention of Benefits from Alexander Technique Group Course for People Living with Parkinson's Disease. Archives of Physical Medicine and Retabilitation, 12(e14).
 [Gross. M. et al. (2022). Adminis on in-neuron conditive embodiment course.]

- Disease. Archives of physical meaning an in-person cognitive embodiment course to online delivery for people living with Parkinson's disease and their care partners Movement Disorders Clinical Practice.

TARE PARTNER ATTENDANCE CORRELATES WITH 6 MONTH FOLLOW UP IMPROVEMENT

Dyad	# CP Attende d	# PWP Attended	NM — PWP	NM – CP	M — PWP	M — CP
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

NM = Non motor issues M = Motor issues 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

- 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.

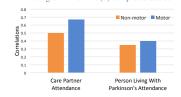


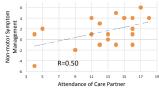
ATTENDANCE CORRELATED WITH 6-MONTH SYMPTON

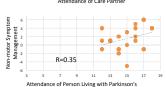
	PWP – Dyad	PWP – Single
*Attendance	89%	81%
Completion	82%	33%

*Only participants who completed the study are included

- Overall Course Completion: 80%
- All single PWP in person (4) dropped out All single PWP online (2) completed course







RESULTS - 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 8

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	PWP Avg.	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.		8.7
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.	8.4	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.	8.1	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.

FUNDING & ACKNOWLEDGEMENTS

Funding was provided by the Parkinson's Foundation and Mountain West CTR-1N. Malor Baye, Aubri Achabal, Stephanie Lazaro, Jared Grieb, Caden Benzinger, Claire Wallace, Kaite Blongren, and Pepper Brisses the block collect and analyze data. We thank Monica Norcia for helping develop the training materials, and Glem Batton, Lass First, James Painser, and Petrea Warneck for course delivery.