FLIPPING A PATIENT'S UNDERSTANDING OF THEIR CHRONIC PAIN-A CASE SERIES

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INTRODUCTION

- Chronic pain affects more than 1 in 5 adults in the United States.
- Psychologically Informed Physical Therapy is a multimodal rehabilitation approach to treat pain by using behavioral strategies from psychology.
- In a previous study utilizing a flipped learning model, patients with chronic low back pain demonstrated increased understanding of risk factors and physical activity, increasing self-efficacy to prevent further complications.

DISCUSSION

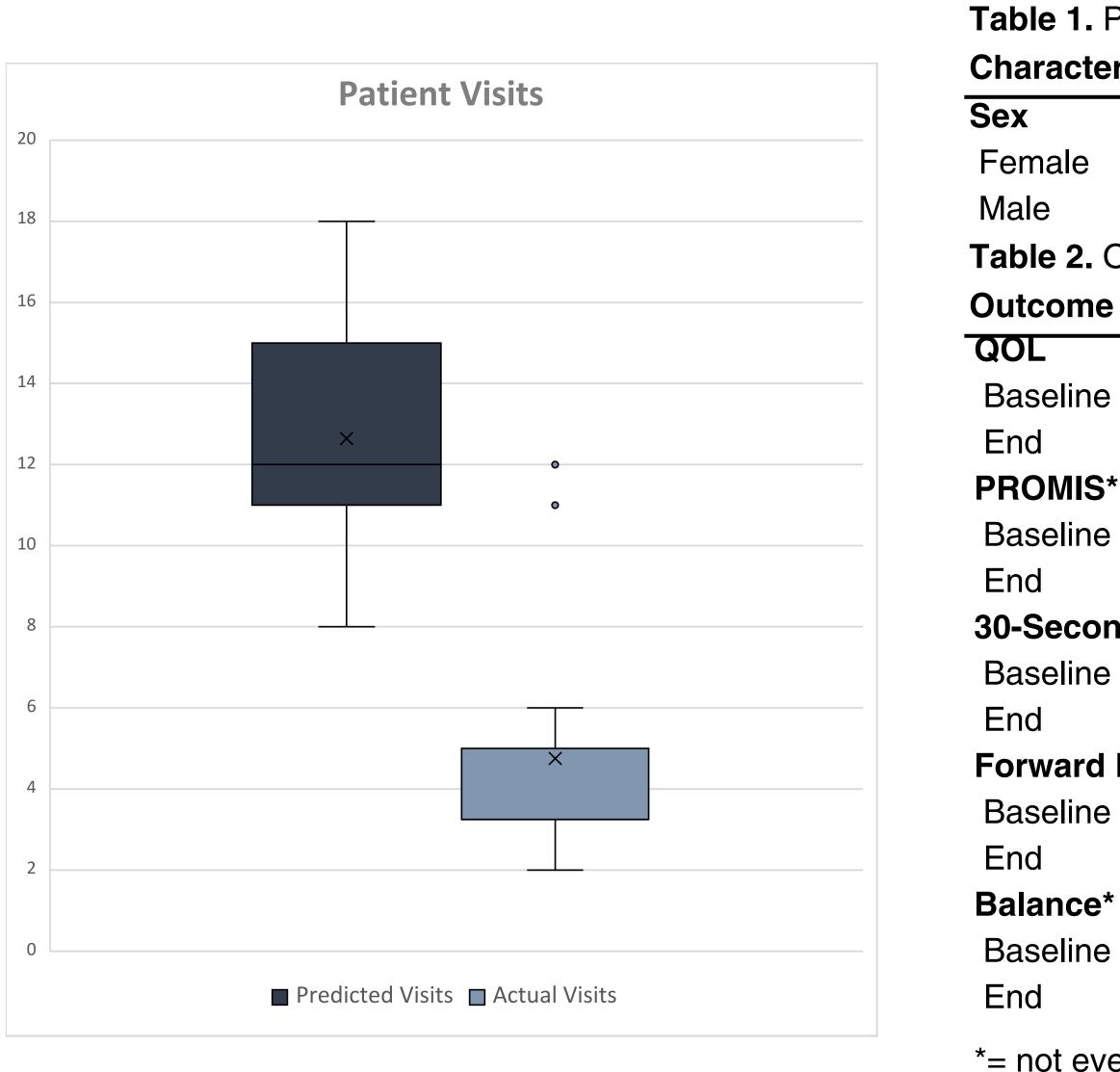
- The flipped learning pain education model resulted in a low number of visits and significant change in the PSFS.
- PTs may consider this approach when working with patients with chronic pain to impact the quality of their treatment.
- This method gives agency to the patient, empowering and engaging them in their own recovery.
- The burden of getting better is on the patient and the PT is the expert coach.
- Further research is needed on the flipped learning model's impact on reducing the number of PT visits compared to usual care.
- Future studies should determine the efficacy of the flipped learning model in comparison to usual care through randomized controlled trials among various populations of different ages and at specific pain regions.

MEASUREMENTS

- Age, categorized into 5-year intervals (e.g. 30-34 years)
- Sex
- Diagnosis
- Location of pain
- Number of physical therapy sessions
- Estimated number of physical therapy visits needed to improve function
- Pain 1-10 (Pre and post)
- PSFS scores (Pre and post)
- PROMIS Physical Function**
- 30-second Chair Stand**
- 4-stage balance test**
- Focus On Therapeutic Outcomes (FOTO)**
- Quality of life Scale 0-10**
- Trunk forward flexion with tape measure**

OBJECTIVE

- The purpose of this study is to describe how a flipped learning pain education model used in physical therapy influences the number of physical therapy visits needed to achieve an improvement in the Patient-Specific Functional Scale (PSFS).
 - The PSFS is patient-specific measure that
 can be used to objectively measure
 functional progress of self-selected goals
 on a scale of 0-10 based on limitations.



RESULTS Median age group: 60-64 years Most common location of pain Lower extremity (n=13) Low back (n=11) Baseline pain level* 7/10 VAS (minimum 1; maximum 10). Predicted number of visits* 12 (min 8; max 18) PT visits* 5 minimum, 12 maximum PSFS scores*: Initial visit: 2 (minimum 0; maximum 5.3), Last visit: 8.6 (minimum 2.3; maximum 10.0) (p<0.001).

 Data was not normally distributed, therefore the Wilcoxon signed-rank test was used to compare the PSFS values at baseline and discharge • The a st

METHODOLOGY

 Case series (retrospective chart review) of 28 patients with chronic pain were treated between January 2023-April 2024.

Inclusion:

- Chronic pain-related diagnosis
- Treating physical therapist was Sharna Prasad (PI)
- Treated using a flipped learning pain education
- model incorporating The Pain Management booklet by Matt Del Brocco
- Have a pre- and post-treatment PSFS score

• Exclusion:

• Spinal cord stimulator

Patient Characteristics		
eristic	n	%
	19	67.9
	9	32.1
Outcome Measures		
e Measures	Median	n
0	7	7
e	7 8	7 18
5*	•	
e	37.5	2
	48.5	7
ond Chair Stand*		
e	9	1
	12	6
Flexion*		
e	5	1
	2.5	16
*		
e	4	0
	3	19

*= not everyone has data for this outcome measure

CONCLUSION

• The flipped learning pain education model in PT led to a statistically significant increase in the PSFS scores over an average of 5 visits.

RESOURCES FOR PAIN MANAGEMENT



*= median value ** (Pre and post, if available)