# An Assessment of Physical Therapy Students' Attitudes and Readiness to Manage Patients with Chronic Pain

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### Opportunity

- 30% of the US population is affected by chronic pain
- Healthcare costs of over \$635 billion/year.
- Healthcare professionals need to be equipped with pain management strategies, including Pain Neuroscience Education (PNE), to replace the overuse of medication.



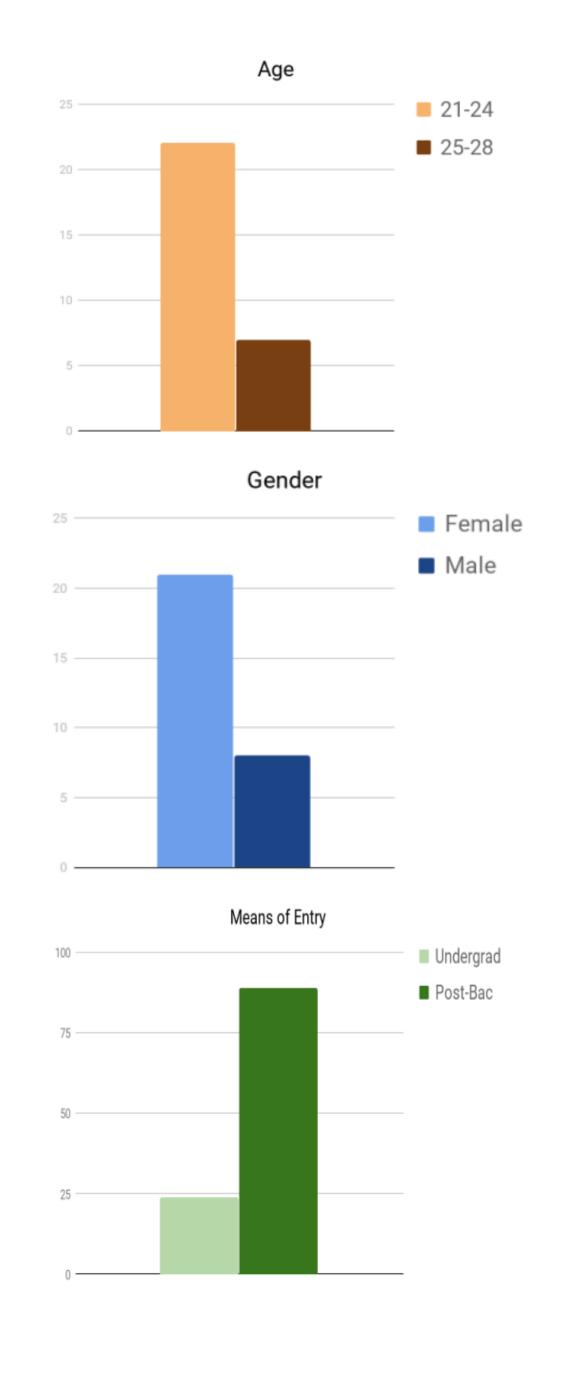
- This study evaluated readiness, attitudes, knowledge, and beliefs about the use of PNE for the treatment of chronic pain.
- Determine the need for curricular enhancements to prepare NUDPT students to utilize PNE to treat pain.



#### Approach

- Mixed methods
- Northeastern University Doctor of Physical Therapy (NUDPT) class of 2019 (n=99) surveyed
- The survey included material from:
  - HC-PAIRS to assess beliefs about the relationship between impairment and pain
  - NPQ to assess knowledge about the physiology and experience of pain
  - Open-ended questions to gather students' perceptions about their readiness to utilize PNE
- Five PNE experts and two NUDPT alumni reviewed the survey to ensure readability and accuracy. A response rate of 30% (n=29) was achieved.

#### Results



Attitudes and Beliefs about Chronic Pain			
Clinical Exposure to Chronic Pain	N (%)	<b>HC-PAIRS Scores</b>	
<25%	27% (n=6)	52.3(+/-) 7.1	
>25%	73% (n=16)	52.5(+/-) 7.9	
There was no significant difference in HC-PAIRS mean scores between			

There was no significant difference in HC-PAIRS mean scores between respondents who had more overall experience and exposure to patients with chronic pain compared to those who had less experience.

Readiness to Manage Patients with Chronic Pain				
Question	N (%)			
Felt prepared to manage chronic pain	62% (n=18)			
Felt prepared to utilize PNE	26% (n=6)			
Felt comfortable using PNE	52% (n=11)			

Knowledge of Chronic Pain			
Clinical Exposure to chronic pain	N (%)	NPQ Scores	
<25%	28% (n=7)	81.2% (+/-) 7.3	
>25%	72% (n=18)	67.7% (+/-) 10.8	

There was a significant difference in mean NPQ scores between respondents who had more overall experience and exposure to patients with chronic pain compared to those who had less experience. p=.006.

## Impact

- The unique feature about this research is: This research explored PT students' attitudes, knowledge, and readiness to treat chronic pain
- Problem solved: Revealed the need for curricular enhancements to improve students' knowledge and readiness to treat chronic pain
- Value: PNE is a highly effective adjunct for PT management of pain and may reduce patients' reliance on opioids.
- Looking ahead: This study will be expanded to evaluate PT programs nationwide to ensure students are adequately prepared to treat patients with chronic pain.

