

Optimizing Patient Histories in PM&R General Clinic with Intake Forms

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Background

Key HPI Components:

1. Onset
2. Location
3. Radiation
4. Duration of sx
5. Timing of sx
6. Character/quality
7. Aggravating factors
8. Alleviating factors
9. Severity
10. Previous treatments
11. Associated signs and symptoms.

- HPI is foundational in making the correct diagnosis
- Obtaining a thorough history can be time consuming
- Intake forms provide patients with time in the waiting room to express their chief complaint and related history
- Chart review of HPIs in the month prior to study revealed every note had at least one missing key component

Objectives

- Optimize history efficiency and thoroughness
- Reduce waste
 - Correct diagnosis
 - Correct treatment
 - Patient time and physician time
- Improve equity
 - Standardize history process

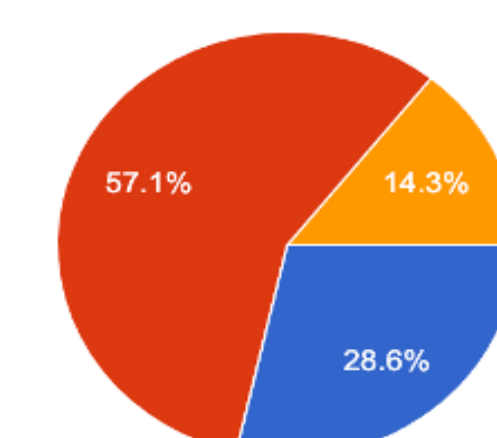
Materials and Methods

- Data gathered from January 2023- March 2023
- Inclusion: New patients, chief complaint of localized pain seen in Wednesday general PM&R clinic
- Each month separated into two periods
 - Period A: First and Second Wednesday
 - 30 Patients seen in period A
- Period B: Third and Fourth Period
 - 26 patients seen in period B
- Completeness of documented histories
 - $\bar{X}$ Included HPI key components/note
 - $\bar{X}$ Missing HPI key components/note
- Resident Perception Via Survey

Results

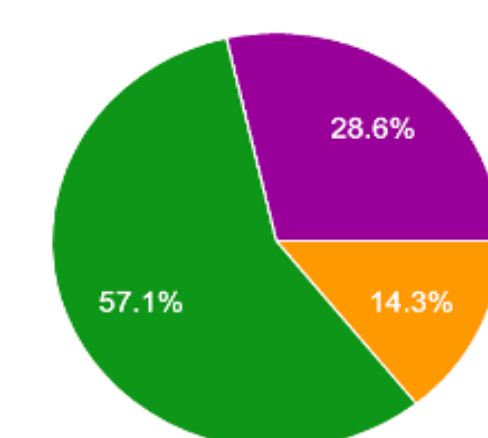
“Obtaining a history regarding pain is time consuming”

Without an intake form (Period A)



$\bar{X} = 4.12$

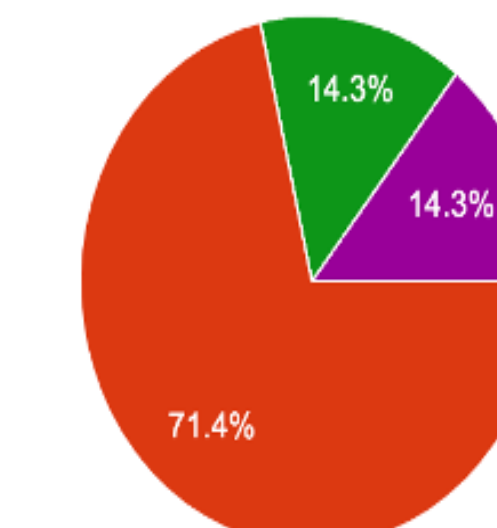
With an intake form (Period B)



$\bar{X} = 1.857$
 $P = .0000461$

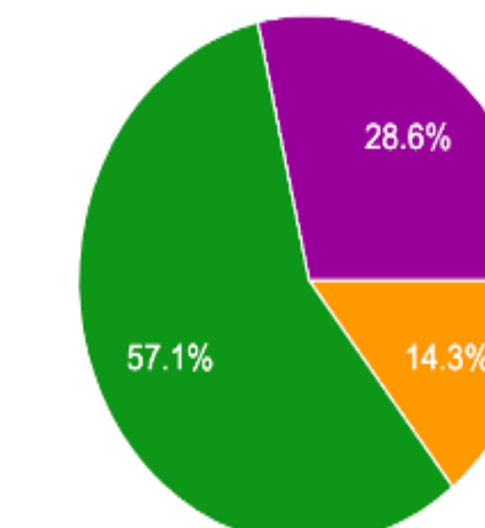
“Sometimes my history doesn’t include 1 or more of the [Key Components]”

Without an intake form (Period A)



$\bar{X} = 3.285$

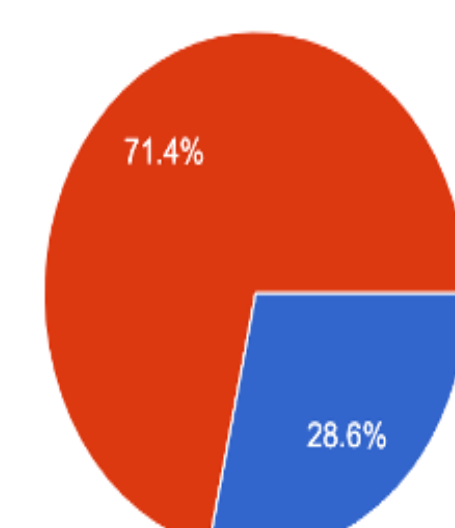
With an intake form (Period B)



$\bar{X} = 1.714$
 $P = .01489$

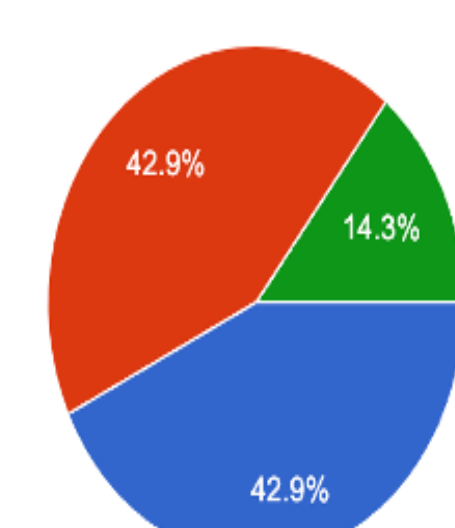
“HPI Intake forms expedite the history process”

Period A



$\bar{X} = 4.286$

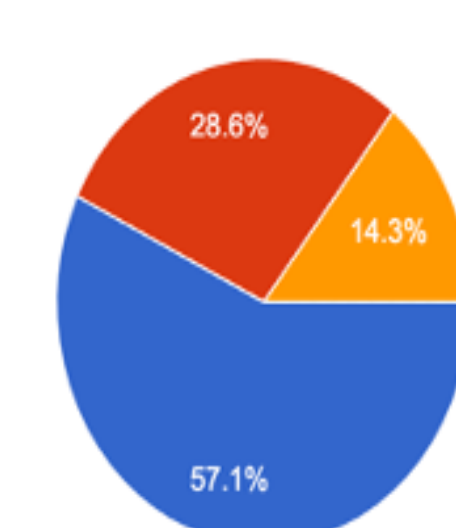
Period B



$\bar{X} = 4.286$
 $P = 1$

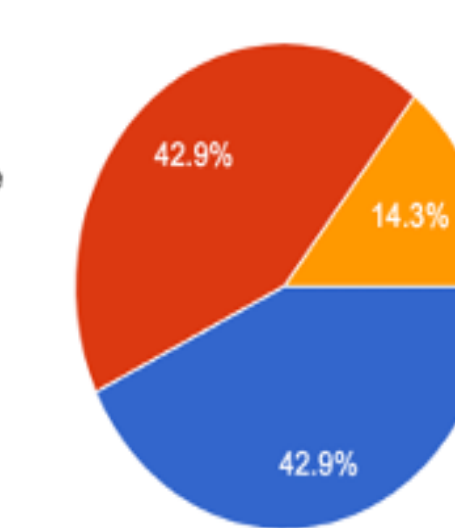
“HPI Intake forms help me write my notes”

Without an intake form (Period A)



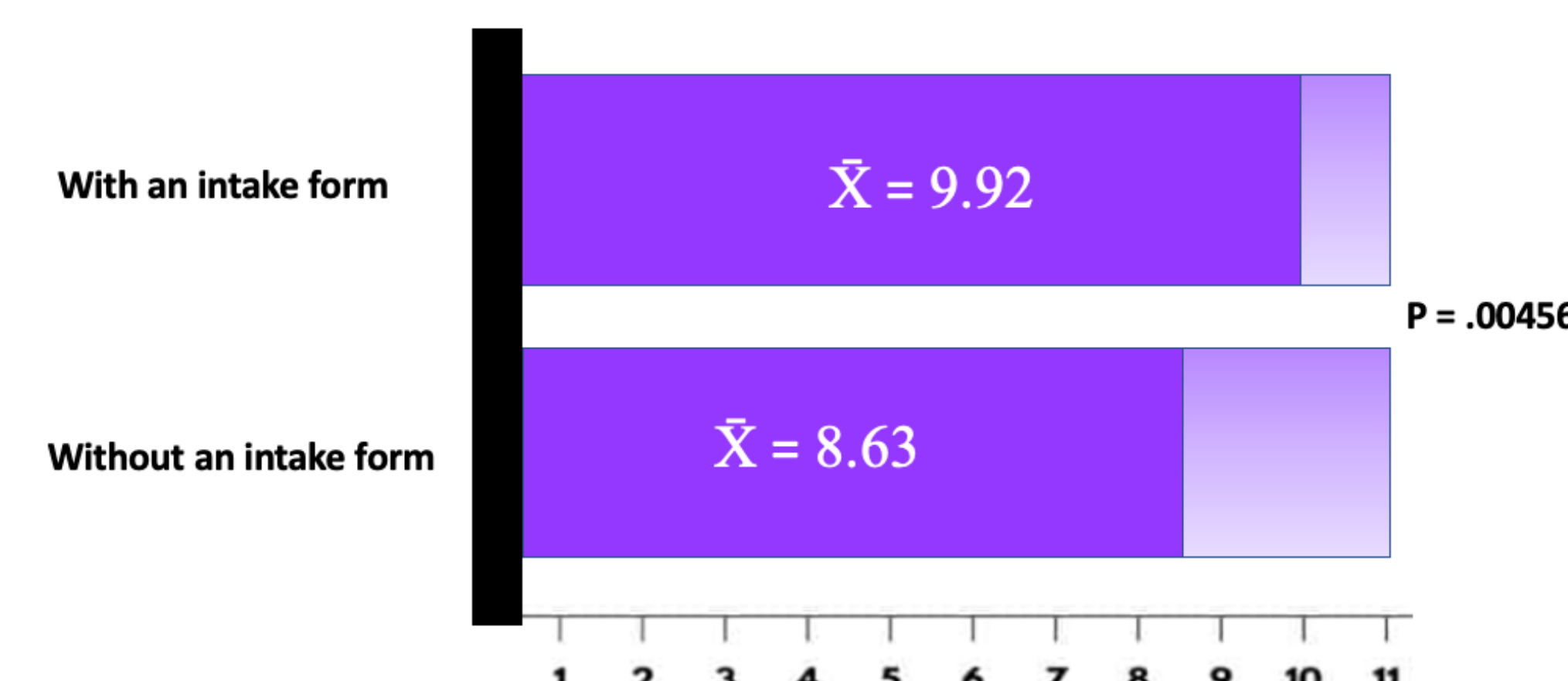
$\bar{X} = 4.429$

With an intake form (Period B)



$\bar{X} = 4.286$
 $P = 0.735$

Average Number of Included Key HPI Components



Scan to view intake form

Conclusion

- PM&R Intake overall positive impact on UMC’s PM&R general clinic
- Notes in Period B had significantly more key HPI components
- Residents overall had a positive perception of the intake form and its utility
 - History taking without an intake form was time consuming
- Intake forms made history taking more efficient
- Intake forms helped with writing notes

References

1. Braddom , R. (2021). Braddom's Physical Medicine and Rehabilitation, Sixth Edition (D. Cifu & B. Eapen, Eds.) (6th ed.). Philadelphia, PA : Elsevier, c.2021.
2. Richmond, C., Jordan , S., Bischof, G., & Sauer, E. (2014). Effects of Solution-Focused Versus Problem-Focused Intake Questions on Pre-treatment Change. Journal of Systemic Therapies. <https://doi.org/10.1521/jsyt.2014.33.1.33>
3. Wilkinson, J., & Elmieh, N. (2019). EXMINING THE EFFECTS OF INTRODUCING AN INFORMATION INTAKE FORM ON DOCTOR-PATIENT COMMUNICATION AND APPOINTMENT EFFICIENCY: A PILOT STUDY.