# Evaluation and Treatment of a Patient Diagnosed with Adhesive Capsulitis Classified as a Derangement Using the McKenzie Method: A Case Report



Ashley Bowser, B.S., DPT student
Brian T. Swanson, PT, DSc, OCS, FAAOMPT
UNE Department of Physical Therapy

#### **Unique & Innovative**

The McKenzie Method of mechanical diagnosis and therapy (MDT) is supported in the literature as a valid and reliable approach to spine injuries.<sup>3, 5</sup> It can also be applied to the peripheral joints, but has not been explored through research to the same extent. A previous case series detailed the use of MDT in the shoulder; however, the application of MDT in the treatment of adhesive capsulitis has not been previously reported in the literature.<sup>1</sup>

#### Purpose

The purpose of this report is to demonstrate the assessment, intervention, and clinical outcomes of a patient diagnosed with adhesive capsulitis, who was classified as having a shoulder derangement using MDT methodology.

#### **Foundation**

### MDT Method

problem

- Bases treatment on patient response to movement via symptom provocation and alleviation<sup>5</sup>
- Sub-classifies conditions based on tissue response to mechanical loading with specific, repeated motions identified during testing<sup>5</sup>
- Sub-classifications: trauma/inflammatory, postural, dysfunction, derangement, chronic pain state<sup>5</sup>

## clinical orthopedic testing anatomical structure. Adhesive capsulities

- Questionable reliability/validity of specialized orthopedic testing making identification of anatomical structure challenging<sup>2, 4</sup>
- Adhesive capsulitis is very challenging to diagnose; patients are commonly misdiagnosed as having this condition<sup>6</sup>

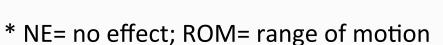
• MDT is an alternative way to evaluate and treat without identifying the exact anatomical structure.

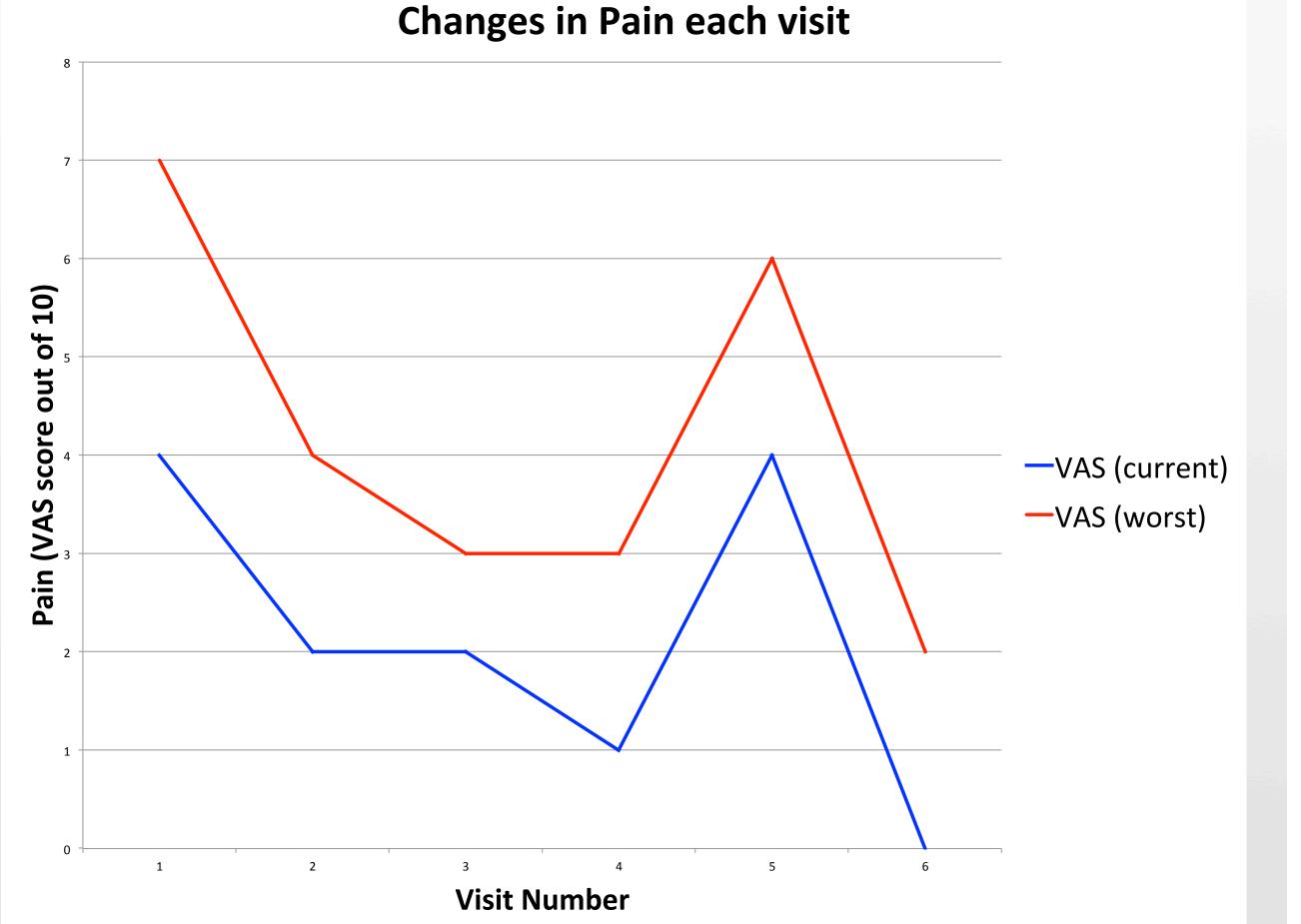
#### **Description**

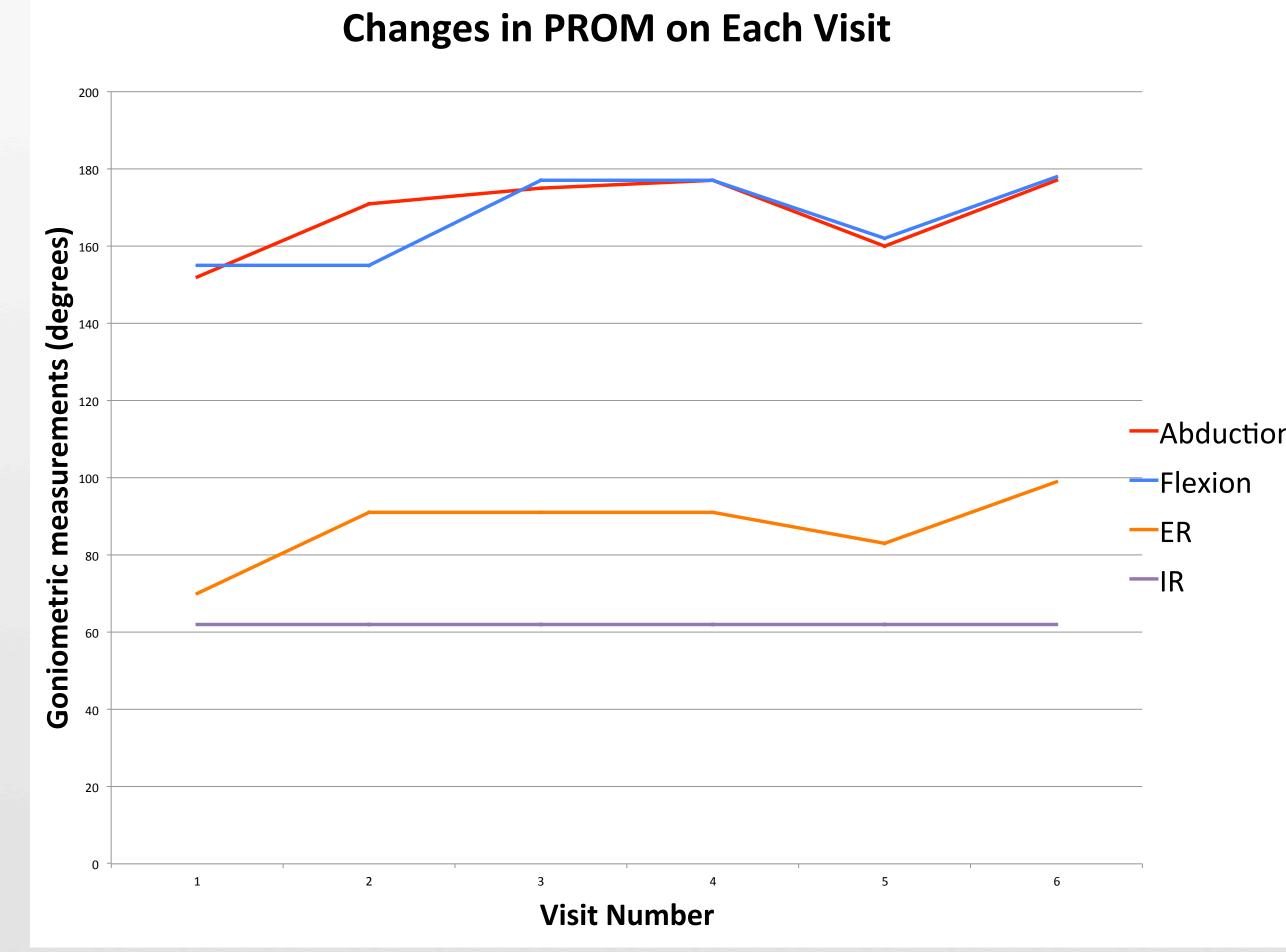
- 52-year-old female
- 4-week insidious onset left shoulder pain
- Medical diagnosis: adhesive capsulitis
- Decreased work/ADL capabilities: 55/80 Upper Extremity Functional Scale (UEFI)
- Pain: 4-7/10 visual analog scale (VAS)
- Decreased A/PROM: 152° abduction, 155° flexion, 70° ER
- Rapid change in symptoms (pain decreased to 1/10, ROM increased) following repeated shoulder extension/scapular retraction
- MDT classification: derangement

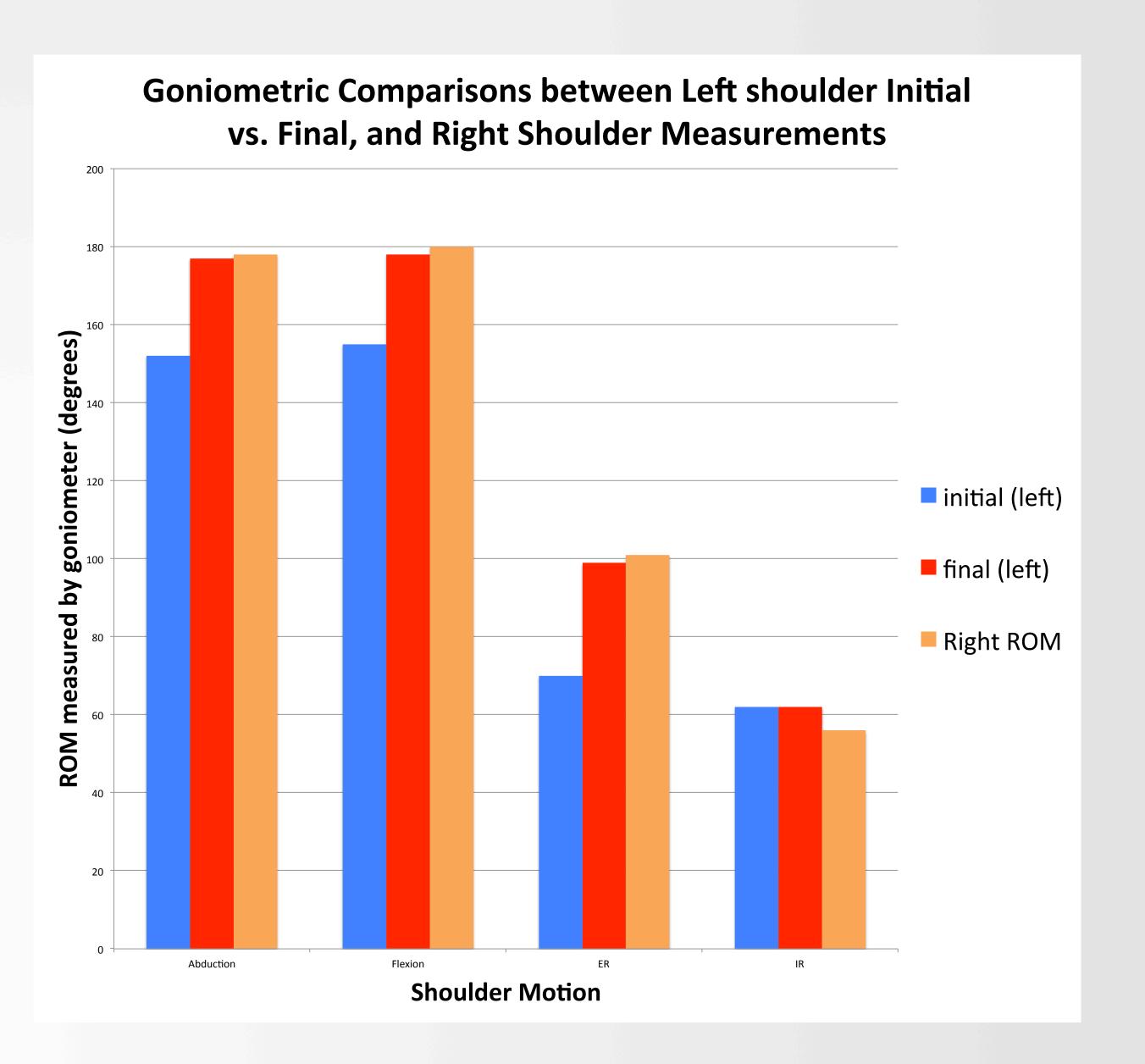
#### **Observations**

Repeated Motion Testing	Initial Evaluation Results	Final Evaluation Results
Scapular Retractions	During: pain ♥, ROM ♠	Full ROM, 0/10 pain
	After: ROM/pain better (1/10)	
Shoulder Flexion	During: NE pain, ROM 🛧	Not tested
	After: NE pain/ROM	
Shoulder ER	During: pain $\spadesuit$ , NE ROM	Not tested
	After: ROM/pain worse	
Shoulder Extension	During: pain♥, ROM ♠	Full ROM, 0/10 pain
	After: Better ROM/pain (1/10)	
Mechanical Diagnosis Hypothesis		Confirmed/Rejected
Derangement Syndrome		Improvements in ROM/pain, functional status with repeated scapular retractions/shoulder extension confirm hypothesis









#### Conclusions

The patient demonstrated symptomatic improvement and restoration of functional abilities following evaluation and treatment using MDT methodology. The use of MDT techniques can be effective in the treatment of extremity pathology.

#### Funding source: none

#### Acknowledgements

This author acknowledges Taylor Dickerson, DPT, Cert. MDT for assistance with case report conceptualization, supervision, and assistance.

#### **Contact Information**

A Bowser, BS, is a DPT student at the University of New England, 716 Stevens Ave. Portland, ME 04103

abowser@une.edu

#### References

