The Importance of Early Diagnosis in Parsonage-Turner Syndrome Bloomfield, A., Nasir, A., Vazquez-Galliano, J.

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Background		
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Parsonage-Turner Syndrome

- (PTS) is a rare disorder; incidence 1.64 cases per 100,000¹
- Initial symptoms include abrupt and severe unilateral shoulder pain that is nonpositional in nature
- Weakness replaces pain within days-to-weeks
- Also referred to as idiopathic brachial plexopathy or neuralgic amyotrophy

Case Description

- 62-year-old male presents to ED with three days left shoulder pain without inciting events
- Imaging of shoulder and cervical spine unremarkable
- Discharged from ED with oral steroids and referred to neurosurgery (NSx)

Case (continued)

- Evaluated after several weeks by NSx; diagnosed with cervical spine stenosis, referred to PM&R
- Evaluated after one month by PM&R; pain symptoms replaced by weakness, decreased ROM, and severe wasting of deltoid and supraspinatus muscles
- Diagnostic U/S of left shoulder unremarkable; sent for EMG

Discussion

- PTS often goes misdiagnosed at initial evaluation, either in the ED or by PCP
- This patient's diagnosis was overlooked by both the ED and an additional specialist
- Diagnosis was made over two months after initial presentation

Discussion (continued)

- At the time of diagnosis symptoms had progressed significantly and included severely decreased ROM and severe muscle wasting
- Prolonged course of physical and occupational therapy were required
- Full ROM has been fully achieved after three months of therapy

EMG Findings

EMG Summary Table Spontaneous MUAP Recruitment Nerve Roots PSW Fasc CRD PPP Muscle Fib Amp Dur. Pattern Comments L. Deltoid Axillary C5-Normal Normal None None Normal Increased C6 C5-Musculocutaneous None None L. Biceps None None Normal Norma Normal Increased brachii C6 Radial C6-L. Triceps None None None None Normal Normal Normal Normal C8 brachii L. Flexor carpi Median C6-None None None None Normal Normal Normal Normal C7 radialis L. Cervical None None None None Normal Normal Normal Normal paraspinals (mid) L. Cervical None None Normal Normal None None Normal Normal paraspinals (low) None None Normal Normal Supraspintaus None None Normal Normal Normal L. trapezius None None Normal

 Abnormal findings suggestive of possible brachial plexopathy at the upper trunk distal to the branching of suprascapular nerve

Conclusion

- Early diagnosis and therapeutic intervention plays a significant role in preventing long-term negative sequela
- A greater emphasis should be placed on recognition of this rare yet easily identifiable syndrome

References

1 – Feinberg JH, Radecki J. Parsonageturner syndrome. *HSS J.* 2010;6(2):199-205. doi:10.1007/s11420-010-9176-x

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