## PP109 POST-TRAUMATIC CENTRAL CORD SYNDROME WITH BILATERAL MULTILEVEL CERVICAL CORD INVOLVEMENT, PURE MOTOR COMPONENT

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## **INTRODUCTION:**

Spinal cord injury post-trauma remains as one of the life devastating injuries with multiple complications. Central cord syndrome characterized by greater motor impairment in upper limbs compared to lower limbs, a variable degree of sensory loss below the injury level and bladder dysfunction. In the emergency setting, it is important to identify the signs and symptoms, subsequently, start the immediate treatment to reduce the morbidity in the patient.

## **CASE REPORT:**

A case of post-traumatic injury in a 47year-old man with no comorbid, he presented with bilateral upper limbs motor weakness from C5-T1 with no lower limbs weakness. He had pure motor involvement with intact sensation. No cervical and spinal tenderness. No bladder dysfunction. He was suspected to have central cord syndrome. Early magnetic resonance imaging of spine aided in the was multilevel diagnosis. There cervical spondylosis with spinal canal stenosis at C3/C4, C4/C5 and C5/C6 with bilateral C6 nerve roots impingement. C4/C5 and C5/C6 spinal canal space were narrowed to 0.6 cm and 0.7 cm respectively. No spinal cord oedema or haemorrhage. He was started on steroid therapy with no surgical intervention. He had a satisfactory recovery upon discharge with quality of life.

## **DISCUSSION AND CONCLUSION:**

Conservative or surgical treatment which also included timing of decompressive surgery remains a debatable situation. Majority patients improve over time with conservative therapy (1). Younger patients have a better outcome (2). Aito S Et al. concluded that surgery does not affect the outcome (3). However, some authors suggested that the timing of surgery within 24 hours improve the outcome (4,5). Whereas others claimed the timing of surgery does not affect the outcome (6-8). A high index of suspicious was required even in a patient with no cervical and spinal tenderness. Patient management largely depends on the local setting and available expertise.