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Femur Surgery in Multi-System Atrophy

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INTRODUCTION

Multi-System Atrophy (MSA) is a disorder characterized by two of the following symptoms; dysautonomia, parkinsonism and/or ataxia.¹ This neurodegenerative syndrome is a complex diagnosis that presents a riddle for perioperative management.

The classification often depends on predominant physical symptoms¹:

- parkinsonism (MSA-P), striato-nigral degeneration
- cerebellar ataxia (MSA-C), olivo-cerebellar atrophy
- autonomic failure (MSA-A), Shy-Drager syndrome

CASE DESCRIPTION

We present a case of a 67 year old female with a history of multi-system atrophy and dysautonomia (MSA-A), who was managed for right femur open reduction internal fixation with a continuous spinal catheter.

The patient was brought to the operating room, and initially, an awake right radial arterial line was placed. Then a continuous spinal catheter was achieved by threading an epidural catheter through an 18 guage Touhy needle into the intrathecal space.

Subsequently, 0.25% bupivicaine local anesthetic was slowly titrated in 1 ml increments with periodic assessment of the sensory level. Titrating intrathecal local anesthetic yielded surgical anesthesia to the T9 dermatome without vascular compromise.

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- rigidity
- irregular movements:
- facial muscle spasm
- postural instability:

- urinary dysfunction

Multi-System Atrophy is a complex diagnosis with unique systemic manifestations, when identified can be managed with slow titration of intrathecal local anesthetic for lower limb surgery.

REFERENCES

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2. Gilman S, Wenning GK, Low PA, et al. Second consensus statement on the diagnosis of multiple system atrophy. Neurology 2008; 71:670-6

3. http://images.radiopaedia.org/images/21582/371f783f7ba9680112d4b7d1c974a5.jpg



DISCUSSION

Systemic manifestations of MSA include:

autonomic dysfunction

(hemiballismus, chorea, restless leg syndrome) severe anterior spinal flexion (camptocormia) baseline hypophonia and strained speech high pitched nocturnal laryngeal inspiratory stridor • sleep apnea, excessive daytime sleepiness • diminished verbal fluency • vivid, violent dreams

Raynaud phenomenon

CONCLUSION