Restless Legs Syndrome

Quick Facts:
Restless legs syndrome (RLS) is a sleep-related movement disorder that is diagnosed based on clinical history. RLS requires four cardinal symptoms; these symptoms can be remembered using the mnemonic URGE. RLS is characterized by the patient’s (U)rge to move the legs because of uncomfortable sensations that may be difficult to describe; symptoms occur predominantly at (R)est or with inactivity; symptoms are relieved, at least temporarily, by (G)etting up and moving; and are worse in the (E)vening or night. The prevalence is 7-10%, with females reporting slightly higher rates. The nature and description of symptoms can vary. The sensations are generally reported bilaterally and below the knees but have also been reported unilaterally, more proximally in the legs, and even in the arms.

RLS is associated with periodic limb movements of sleep (PLMS) in over 80% of patients; however, the presence of PLMS is not necessary for the diagnosis of RLS. PLMS are seen frequently in the general population, particularly in the elderly.

RLS has been linked to low iron stores and central dopaminergic neurotransmission. Genetic linkages have also been described. Approximately 50% of patients have a positive family history of RLS.

RLS may be seen more commonly in pregnancy, in patients with a source of pain in the lower extremities, and in those with chronic renal insufficiency, parkinsonism, multiple sclerosis, and epilepsy.

Are my patients at risk of RLS?

Why It Matters

- RLS impairs quality of life. Patients with RLS may find it difficult to fall asleep or return to sleep after an awakening. This sleep disruption can result in chronic insufficient sleep and daytime sleepiness.
- RLS is associated with anxiety and depression.
- RLS can affect surgical outcomes. There may be significant worsening of RLS symptoms after surgery.
- RLS may be associated with cardiovascular disease. There is some data of an association between RLS and cardiovascular disease, but this area needs further study.

What You Can Do

- Advise patients with RLS to avoid caffeine, alcohol and tobacco and to not donate blood.
- Encourage moderate physical activity. Mentally stimulating activities may help when the patient is at rest for prolonged periods of time, e.g., during a car or airplane ride.
- Review medications with anti-dopaminergic effects that can worsen RLS symptoms such as antiemetics, antihistamines and some psychotropic medications.
- Consider nonpharmacological treatments including warm or cool baths, massage, stretching, electric blankets and spontaneous compression devices. These may be effective in milder cases of RLS.
When to Refer?

- Consider referral to a sleep medicine specialist in cases where symptoms are refractory to medication.

Referring Guidelines:

- aasm.org/clinical-resources/practice-standards/practice-guidelines
- n.neurology.org/content/87/24/2585

Patient Information Websites:

- Restless Legs Syndrome Foundation www.rls.org
- National Institute of Neurological Disorders and Stroke www.ninds.nih.gov/disorders/restless_legs/detail_restless_legs
- American Academy of Sleep Medicine www.sleepeducation.org/find-a-facility

References: