

Restless Legs Syndrome

- 2nd most common sleep disorder
- Mostly unrecognized
- Poor outcome for treatment

An urge to move the legs (focal acathisia)

- A conscious sensation/feeling localized in the legs
- Not unconscious movement habits (foot tapping)
- Persists for a while unless relieved by movement or counter stimulus

Usually accompanied by **Unpleasant Limb Sensations**

- Lower extremities, distal
- Usually bilateral
- · Discomfort often difficult to describe: deep seated, creeping, crawling, jittery, tingling, burning, aching, etc, etc... Characteristic phrases of patient suggested as
- - Deep in legs, not on surface or skin
 Dynamic, (something) moving in the leg
- . If present, must be linked to the urge to move the legs
- Location and timing generally matches that of urge to move
- · Pain may be reported, but not often
- Generally no physical sign of symptoms

Aggravated by rest, relief by activity

- Quiescegenic: Rest starts or worsens the RLS symptoms
 - . Longer the period of rest the more the RLS
 - Greater the confinement limiting movement the more likely RLS starts or gets worse
- Temporary relief by activity
- Rest or inactivity involves both:

 - . Decreased mental alertness
- · Aggravated by Rest and not by a specific fixed body position

Compelling Motor Restlessness

- Relief from movement must occur, but other activities may also relieve the RLS symptoms
- Relief may be total or only partial
- Relief persists as long as the movement continues
- Relief usually occurs almost immediately or very soon after movement starts.

Circadian variation

- Symptoms worse in the evening or at night
- If present in the morning, usually more prominent later in the day
- Nocturnal Strong circadian cycle
 - Evening or night: RLS is worse or only occurs at this time
 - Morning (8 -10 AM) "protected period"; No or few RLS symptoms

Additional features

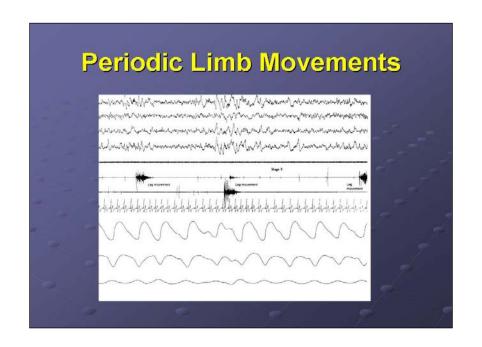
- Sleep disturbance
- Periodic leg movements (PLMs) during sleep
- Involuntary limb movements while awake
- Normal neurological examination
- Family history
- Age of onset



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PLMs in RLS

- Periodic Limb Movements during Sleep
- Periodic Limb Movements while Awake



Differential Diagnosis Nocturnal leg cramps

- n Peripheral neuropathy
- n Akathisia
- rı Lumbosacral radiculopathy
- n Nocturnal pain syndrome
- n Hypnogenic myoclonus (sleep starts)
- n anxiety

- Venous/Arterial Insufficiency
- n "Painful legs and moving toes syndrome"
- Vesper's curse
 - Burning feet syndrome
- Leg and feet dystonias
 - Sleep onset

Ethiology Systemic n chronic renal failure n pregnancy n iron defficiency n rheumathoid artritis n Sjögren Syndrome n folate defficiency n folate defficiency

diabetes

venous insufficiency pharmacologic (DA blockers, SSRIs) n Idiopathic

