

Infrapatellar Branch of Saphenous Neurectomy for Painful Neuroma: A Case Report

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ABSTRACT

We present the case of an 18-year-old woman who was healthy other than a history of multiple arthroscopic right knee surgeries culminating in subtotal lateral meniscectomy in a valgus knee. The patient was referred to our office for evaluation for realignment osteotomy and meniscal transplantation. Her diagnosed case of neuroma of the infrapatellar branch of the saphenous nerve was managed with neurectomy, which produced prompt and complete resolution of pain.

The saphenous nerve is the largest cutaneous branch of the femoral nerve in the lower extremity.¹ It is a purely sensory nerve, with input to L3 and L4 nerve root dermatomal sensory distributions.^{1,2} In proximity to the pes anserinus of the medial knee at the posterior aspect of the sartorius musculo-

tendinous junction, the saphenous nerve receives coalescing branches from the descending branch (coursing distally along the medial leg to just anterior to the medial malleolus and branching farther to variably supply sensation to the medial hindfoot, midfoot, and forefoot) and the infrapatellar branch of the saphenous nerve, or IBSN (coursing anteriorly, laterally, and distally).³ Numerous investigators (Tables I, II) have described the surgical anatomy of the IBSN.¹⁻⁹

includes a spectrum ranging from anesthesia, hypoesthesia, hyperesthesia, hyperalgesia, and allodynia to reflex sympathetic dystrophy, all stemming from varying degrees of Wallerian degeneration commencing at site and time of injury.^{11,12}

Although saphenous nerve and IBSN damage are of the less common causes of medial knee pain, when unrecognized it may lead to chronic, severe, painful saphenous neuritis,² reflex sympathetic dystrophy,¹³ and painful saphenous

“Although saphenous nerve and IBSN damage are of the less common causes of medial knee pain, when unrecognized it may lead to chronic, severe, painful saphenous neuritis, reflex sympathetic dystrophy, and painful saphenous neuromata.”

The IBSN may be injured by traumatic contusion, inflammation, compression, or iatrogenic causes, such as needles or surgical incisions.^{2,3,10} Unintentional surgical damage to the IBSN has been reported after anterior cruciate ligament (ACL) reconstruction using hamstring autograft,^{3,5-8} after standard anteromedial knee arthroscopy portal placement,^{3,5,10} and after total knee arthroplasty (TKA).^{2,9} Other causes of iatrogenic IBSN surgical injury are vascular surgery techniques—varicose vein surgery, femoropopliteal bypass, femoral artery thrombectomy, and femoral artery embolectomy.² The pathophysiologic mechanism of pain generation

neuromata.²⁻⁹ Management of painful saphenous neuromata first requires diagnosing the cause of the neuroma(ta), as the diagnosis commonly goes unrecognized early in presentation. Nonsurgical treatment then includes use of nonsteroidal anti-inflammatory drugs (NSAIDs), oral gamma-aminobutyric acid analogue medications, capsaicin cream, physical therapy modalities, transcutaneous electrical nerve stimulation, oral antidepressant medications, and therapeutic local anesthetic and corticosteroid injections. Surgical management may consist of saphenous or IBSN neurolysis, saphenous or IBSN decompression, and saphenous or IBSN neurec-

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