A 32-year-old woman presented with a left foot drop for 2 weeks after Caesarean section following an 11-hour labor. Nerve conduction studies (NCS) and EMG revealed sciatic neuropathy. Pelvic T2-weighted imaging demonstrated diffuse high signal intensity and swelling of the sciatic nerve. Segmental fractional anisotropy (FA) analysis showed focal neural compromise as FA dip at the entry point underneath the piriformis muscle, suggesting neurapraxia. Segmental FA analysis may be comparable to the NCS inching technique in identifying focal conduction block, and valuable in evaluation of proximal compressive neuropathy where the segmental NCS are not applicable; it may complement conventional MRI.

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