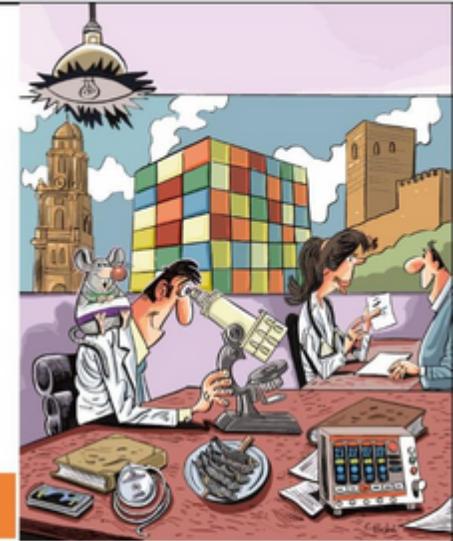


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US PERIPHERAL NERVE BLOCKS FOR PRP FENESTRATION IN CHRONIC TENDINOPATHIES: A PRACTICAL APPROACH

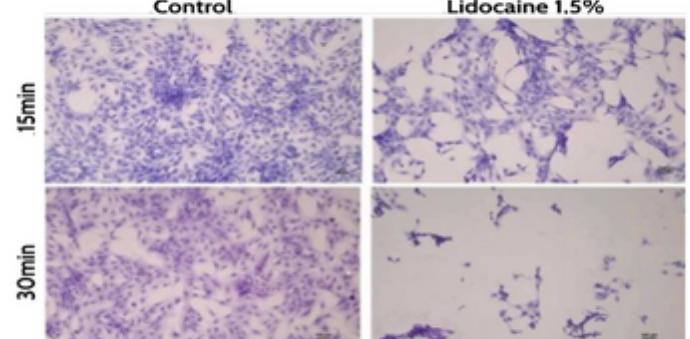
Nuno Ferreira da Silva^{1,2,3}; Tomas Ribeiro da Silva⁴

INTRODUCTION

Ultrasound-guided percutaneous needle fenestration (UPNF) is widely used for tendinopathy, alone or with orthobiologics, providing lasting pain and function improvement with a good safety profile. [1-3] However, it is often painful, usually requiring pre-procedural analgesia.

WHY DO WE NEED PERIPHERAL NERVE BLOCKS?

Although peritendinous local anesthetics can provide effective pain relief, they have been shown to harm tenocytes—inducing cell death and potentially compromising the biological efficacy of orthobiologic treatments, which may lead to suboptimal outcomes. [4-9]



Temporal exposition of tenocytes in a NaCl and Lidocaine 1,5%

Adapted from Tognoloni A, Pellegrini M, Di Salvo A, et al. Cytotoxicity of local anaesthetics and protective effects of platelet rich plasma on equine tenocytes: An in vitro study. *Vet J*. 2024;106159. doi:10.1016/j.vetj.2024.106159

TARGET NERVES BY SITE OF TENDINOPATHY

SUPRASPINATUS/ INFRASPINATUS TENDINOPATHY

Suprascapular nerve



Suprascapular notch (SS Notch) immediately posterior to the transverse scapular ligament, containing the suprascapular nerve (SSN) and artery (SSA).

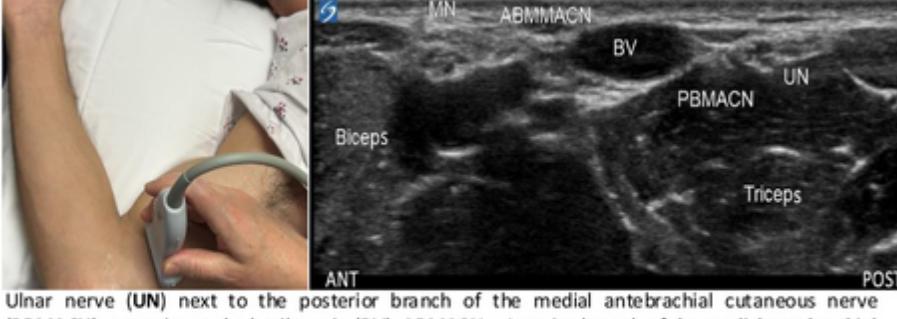
Articular branches LPN– anterior portion SE tendon (acute tears)^{10,11}



Neurovascular bundle (NV), comprising the acromial branch of the thoracoacromial artery and the articular branch of the lateral pectoral nerve, deep to the deltoid (DELT). CP - Coracoid process; CLAV - Clavicle.

COMMON FLEXOR TENDINOPATHY

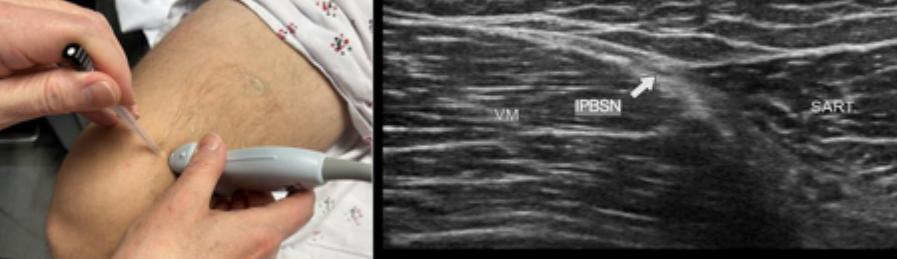
Medial antebrachial cutaneous nerve, Ulnar nerve, Ulnar collateral branch of the Radial nerve¹⁶⁻²²



Ulnar nerve (UN) next to the posterior branch of the medial antebrachial cutaneous nerve (PBMACN), posterior to the basilar vein (BV). ABMACN – Anterior branch of the medial antebrachial cutaneous nerve; MN – Median nerve

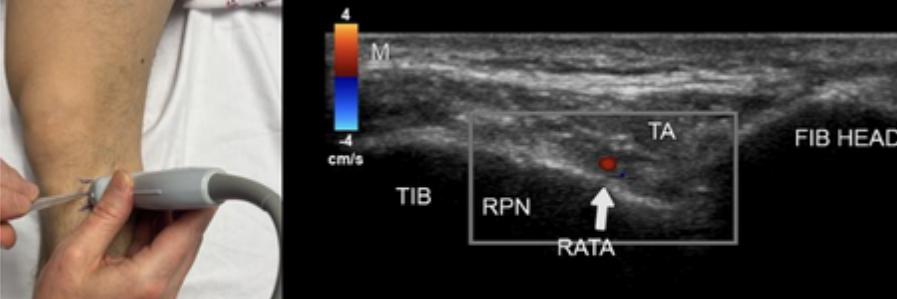
PATELLAR TENDINOPATHY / JUMPER'S KNEE

Infrapatellar branch of the saphenous nerve²⁷⁻²⁹



Infrapatellar branch saphenous nerve (IPBSN) between the sartorius (SART) and vastus medialis (VM)

Recurrent branch of the peroneal nerve²⁸



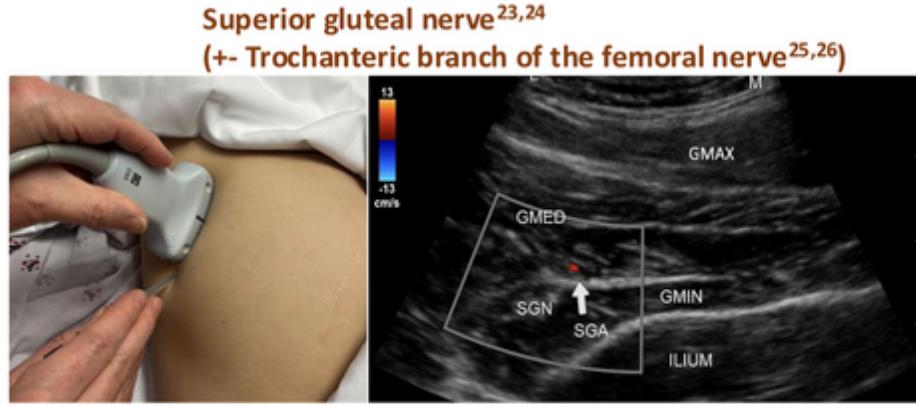
Recurrent anterior tibial artery (RATA) below the tibialis anterior (TA), anterior to the tibia (TIB) and below the Gerdy tubercle. The recurrent peroneal nerve (RPN) alongside the artery. FIB HEAD – fibular head

COMMON EXTENSOR TENDINOPATHY



Radial nerve (Radial N) and the deep brachial artery (DBA) within the spiral groove.

GLUTEUS MEDIUS/MINIMUS TENDINOPATHY

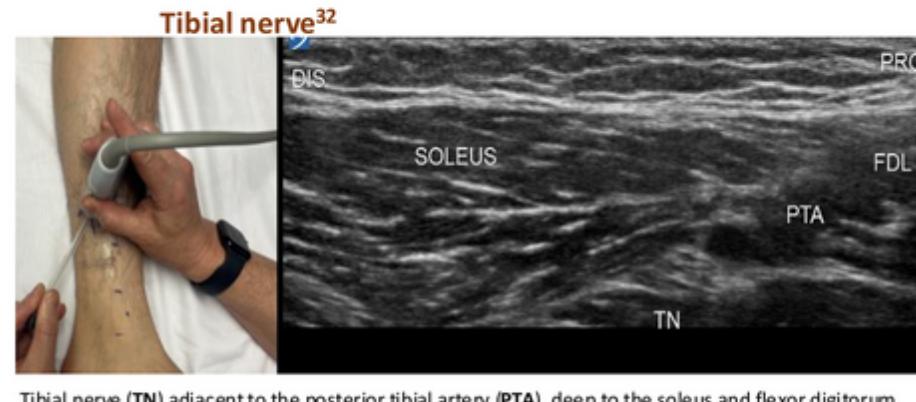


Superior gluteal artery (SGA) and nerve (SGN) in a fascial plane between the gluteus medius (GMED) and the gluteus minimus (GMIN) muscles. GMAX – gluteus maximus muscle.

ACHILLES TENDINOPATHY



Sural nerve (SN) superficially to the soleus muscle.



Tibial nerve (TN) adjacent to the posterior tibial artery (PTA), deep to the soleus and flexor digitorum longus (FDL) muscles.

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REFERENCES

