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Dr Ivan Popoff
Knee, Elbow & Shoulder Surgery

Posterior Interosseous Nerve Syndrome

(Radial Tunnel Syndrome)

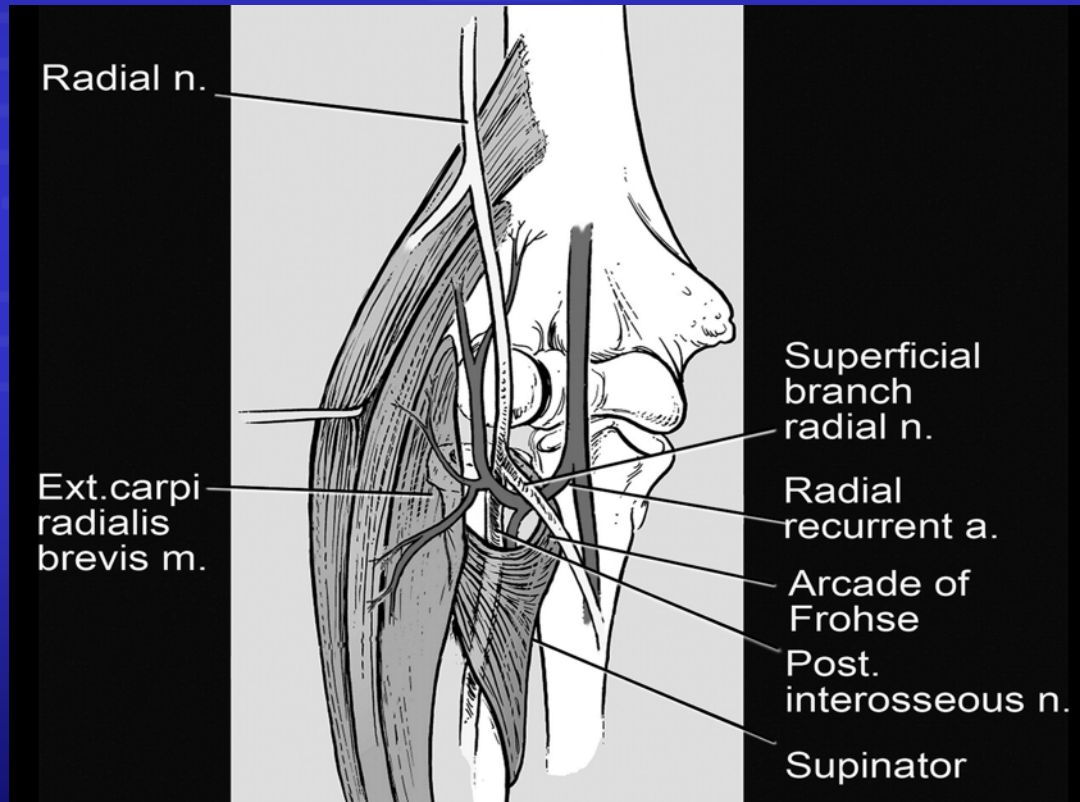


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Posterior Interosseous Nerve Compression



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Function

Innervates ECRB, Supinator, ECU,
EDC, EDM, APL, EPB, EPL

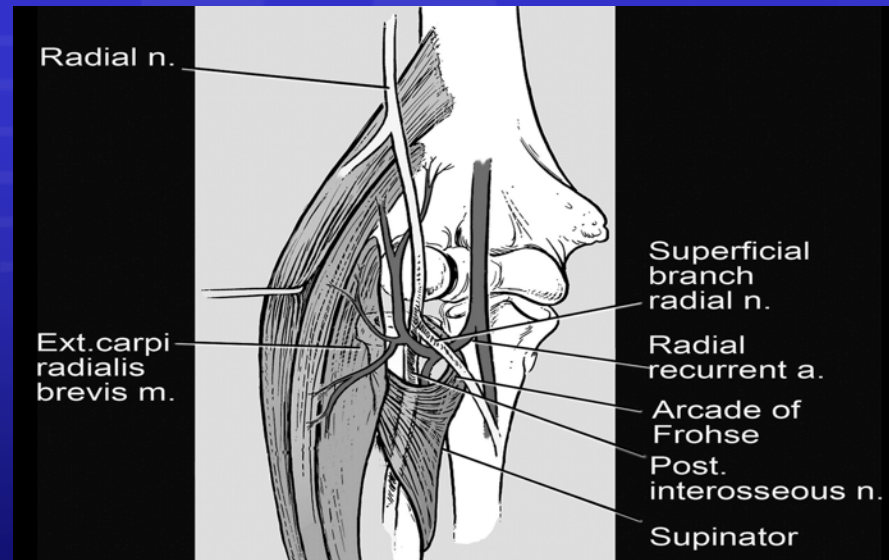
Sensory to wrist dorsal capsule

No skin innervation



Sites Compression

Arcade of Frose, Radial artery recurrent leash of Henry, Supinator (dislocation radial head, RA radio-capitallar joint , tumour)



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Definitions

PIN Compression Syndrome - +ve
NCS

Radial Tunnel Syndrome – no
objective findings



Aeitiolgy

Primary – overuse supinator
hypertrophy

Secondary – another injury leads to
altered mechanics and over use of
supinator (lateral epicondylitis, distal
biceps dysfunction)



Symptoms

Lateral proximal forearm pain (distal to radial head)

Wrist pain

Clumsiness and/ or hand weakness



Clinical Signs

Non responsive to CEO injection of
LA

Tenderness over radial tunnel (1/3
along line between lateral epicondyle
and Listers tubercle)

+/-Weakness finger / wrist extension



Investigations

NCS – often negative

MRI – findings subtle
often negative

Injection of radial tunnel LA and
cortico steroid

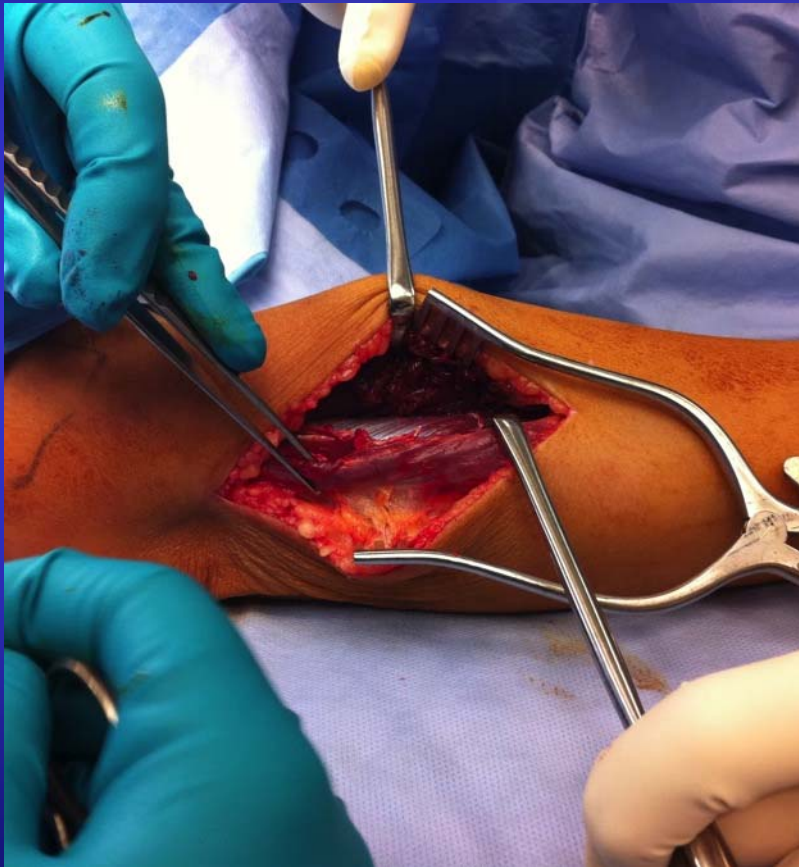


Radial Tunnel Injection

- 12 patients 2 bilateral
- 2 +ve NCS
- 3 MRI subtle signs
- All temp relief with injection
- All relief of symptoms with surgical release



Surgical Release



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PIN Syndrome Conclusion

Often associated with Lateral
epiconylitis

Easily treatable

Reliably diagnosed with LA injection
to radial tunnel



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Thank You



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