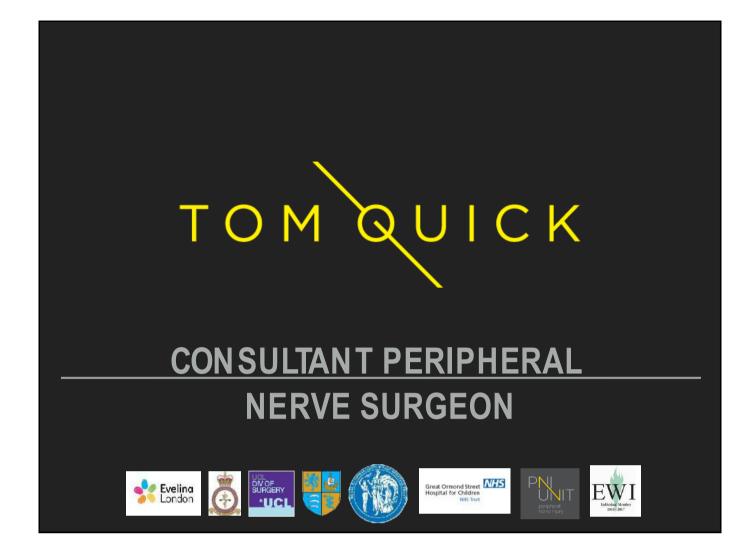


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• GPs

Neurologists

- A&E
- Orthopaedic surgeons

Plastic Surgeons

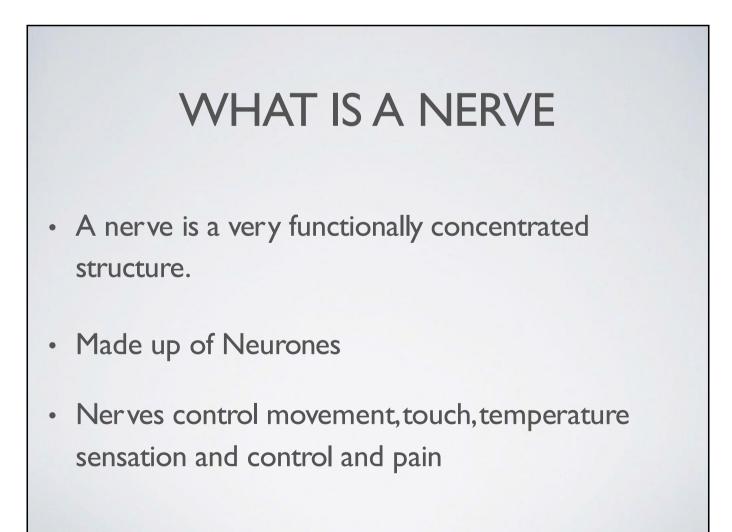
- Therapists
- Pain doctors
- Allied health

NERVOUS AIMS

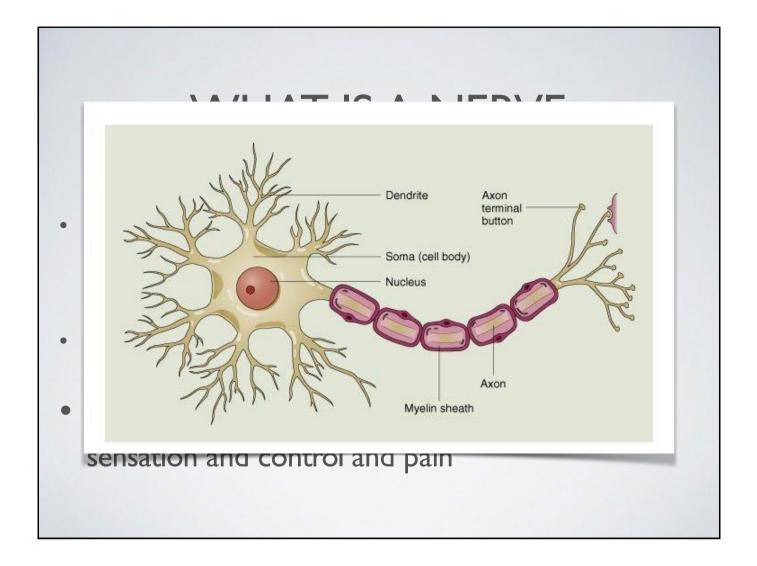
- Overview of the pathology of the main types of nerve injury,
- Diagnosis and treatment

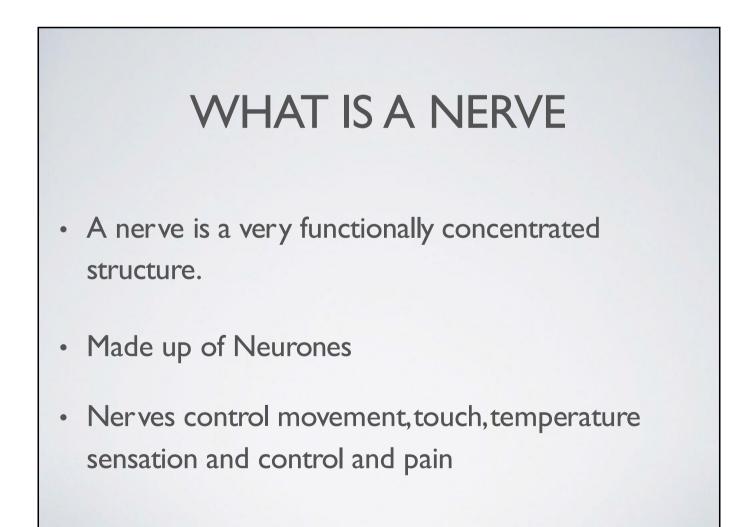
NERVOUS AIMS

- Medico-legal examples of misdiagnosis and substandard treatment or surgery
- In-depth focus on brachial plexus injury especially a birth injury, the causes and treatment.

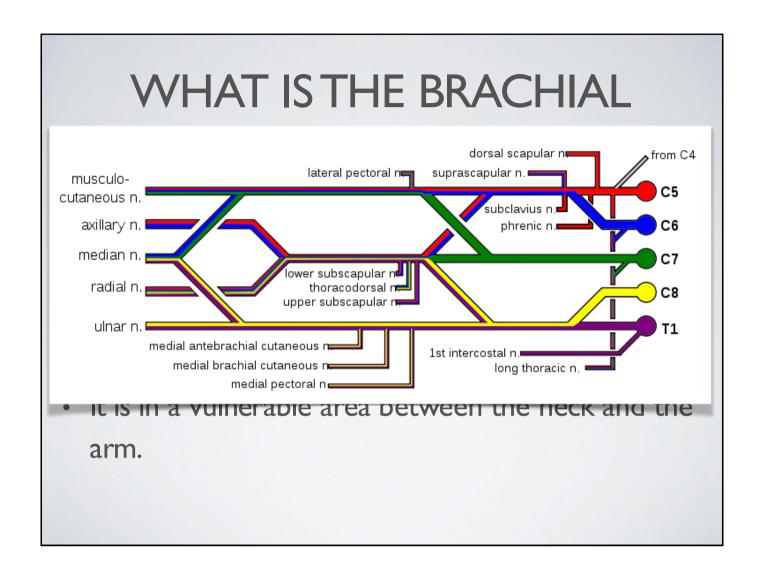


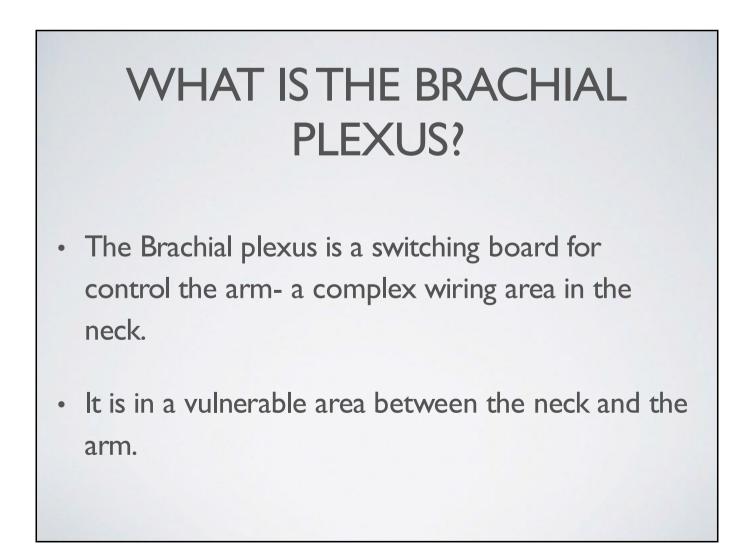
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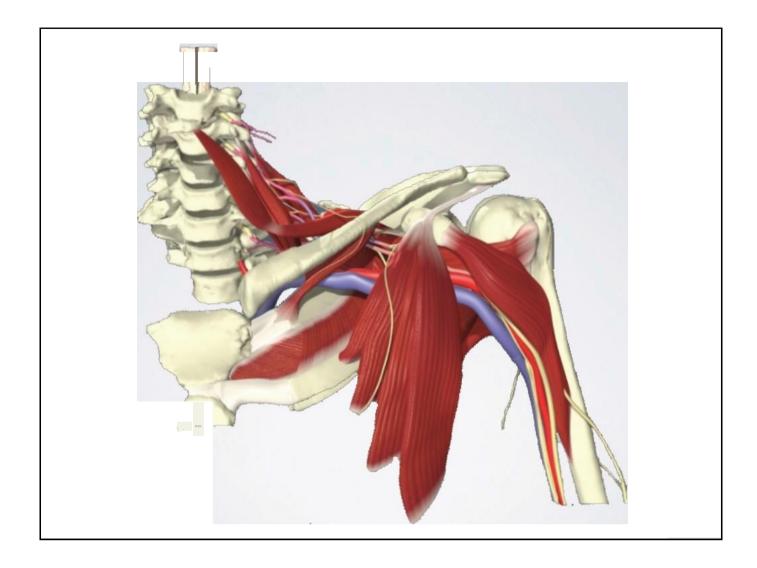


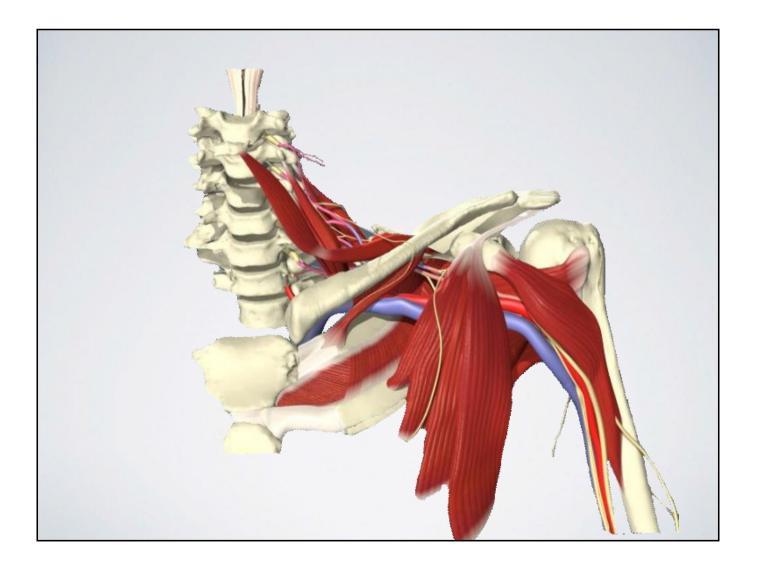
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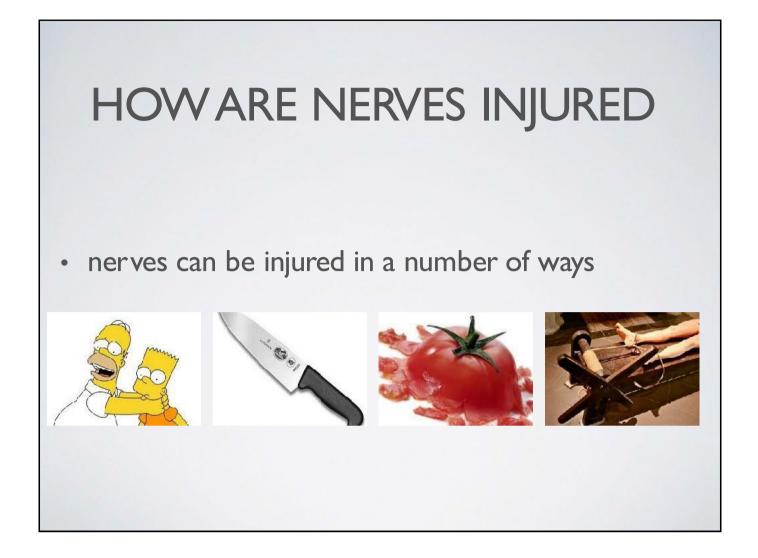


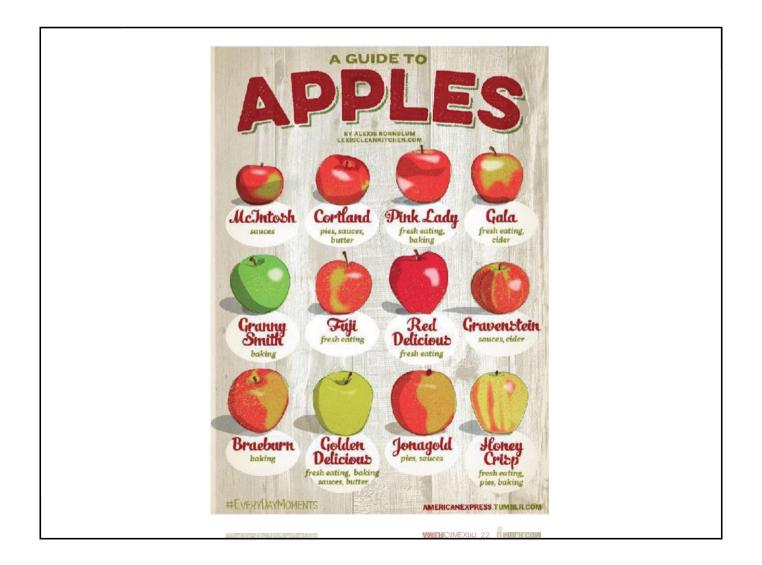












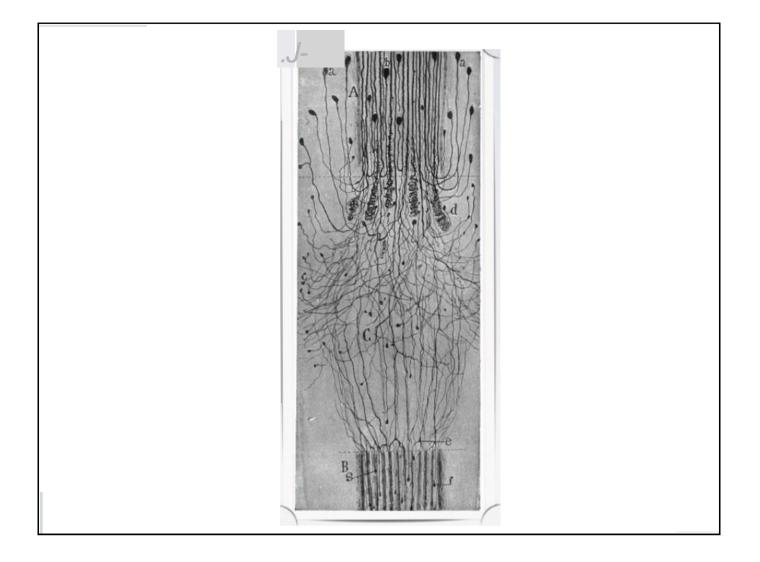


	Table 1. c1 ification of Ner	vP.Injury
Seddon's Classification	Sundef1and's Classification	TIssues Injured
Neurapraxia	Grade I	Myehn
Axonotmesis	Giade II	Myehn. axon
Neurotmesis	Grade III: Axon continuity is disrupted by loss of endoneuri.al tubes, but perineurium is protected Grade IV: Nerve fascicle as damaged, but sheath continuity is maintained Grade V: Substantial penneural hemorrhage and scarring occur	Myehn, axon, endoneurium
		Myelin, arean, endoneurium, perineunum
Source: References 3, 5.		Myelin, axon, endoneurium, perineurium, epineurium

IMPORTANCE OF A DIAGNOSIS

- Nerve injury is often seen as a black box
- Strangely clinicians often don't pursue a diagnosis
- without a diagnosis we cannot give a natural history or say if intervention will improve on that.
- or what the condition or prognosis is.

IMPORTANCE OF A DIAGNOSIS

- Clinical examinationS over time
- Neurophysiology
- Often a diagnostic operation to physically examine the site of injury.

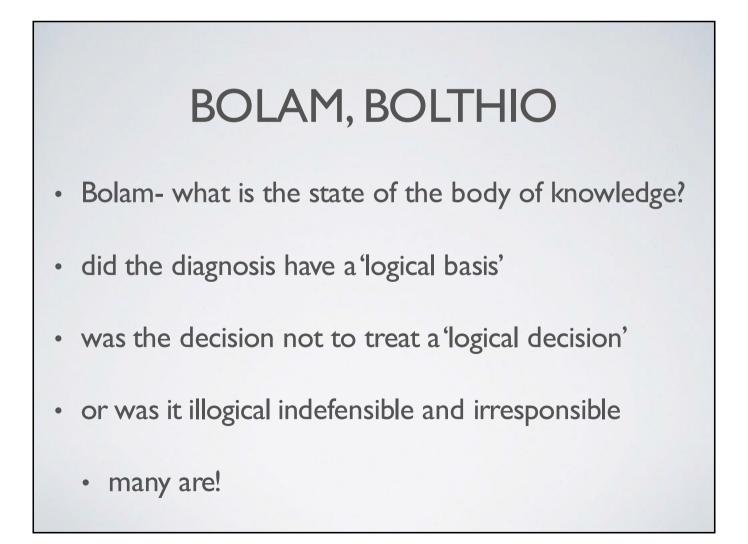


- often difficult to predict at time of injury
- not completed until 2 years
- neurophysiology can be deployed (can be unclear and argued over)

BREACH OF DUTY OF CARE

- Bolam-'Reasonable person''
- Bolitho- Bolam still stands, except when "a judge can be satisfied that the body of expert opinion cannot be logically supported at all".

ľ	British Orthopaedic Association RETRON: H.R.H. THE PRINCE OF WALES
	Image: Note of the second s
	THE MANAGEMENT OF NERVE INJURIES: A GUIDE TO GOOD PRACTICE d at all".



RES IPSA LOQUTIUR

- Erbs palsy may be moving towards this position now. (Importantly though it is it sustained as a more minor injury than a CP injury.)
- Often not consented for even in macrocosmic babies.

PAINFUL PALSY

If there is a post operative palsy (paralysis of a limb) with neuropathic pain in that distribution then there cannot be a process of watching There has to be an operation to correct the pathology.



FAILURE TO RECOGNISE INJURY

- not identifying structures at risk-'mini open'
- not assessing potential damage post op -Spinal accessory XI nerve -with Lymph node biopsy
- There is a burden on any surgeon to recognise post op damage to any nerve at risk.

TIME IS MUSCLE

- There is a 2% drop in final outcome of muscle function per week from injury.
- at I year there is little chance of renervating muscle.
- the old approach was a watch and wait .
- we are now (on a strong evidence base) much more interventional in seeking a diagnosis and instituting treatment.

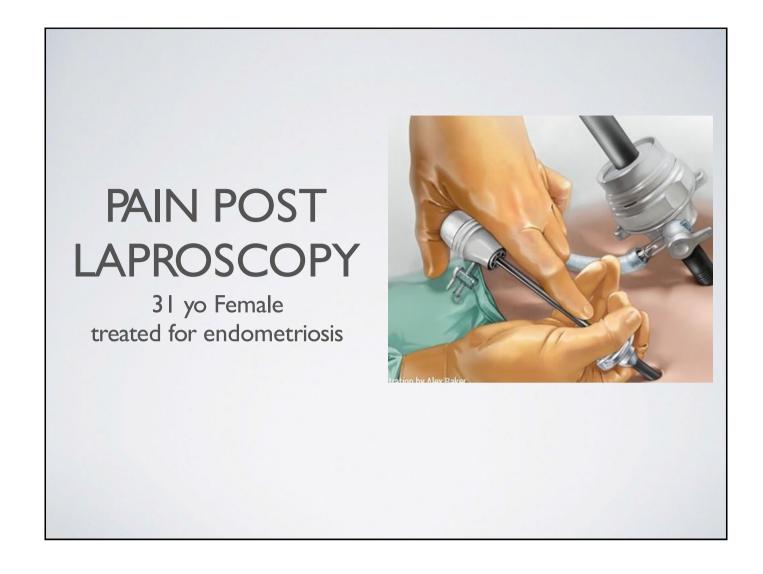
TIME IS MUSCLE

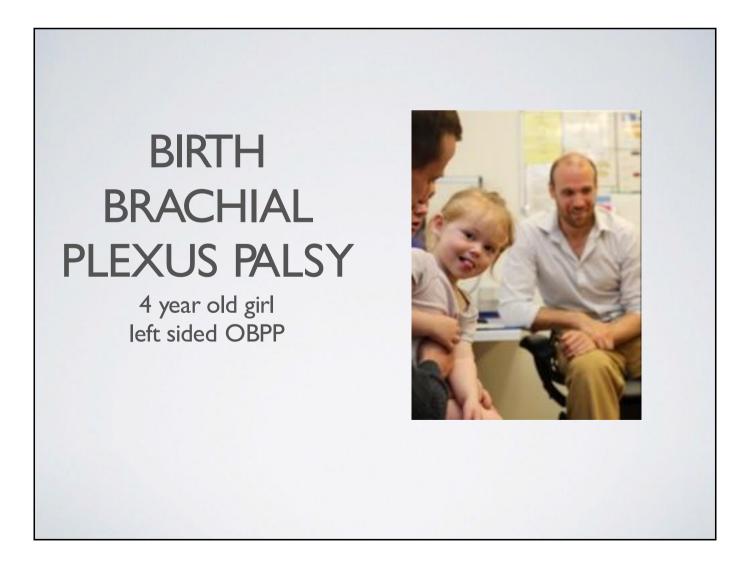
- Delay in referral has a quantifiable material impact.
- Outcomes are predicated by time from injury to treatment.

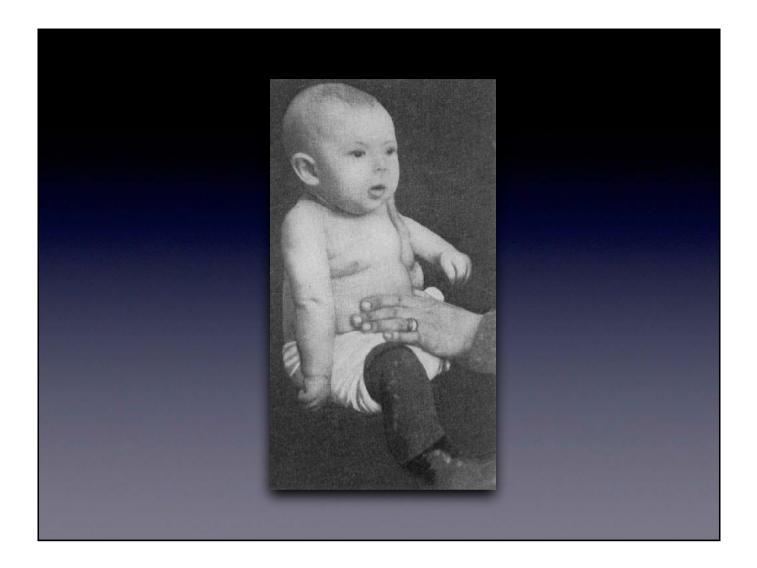
PAIN AND CRPS

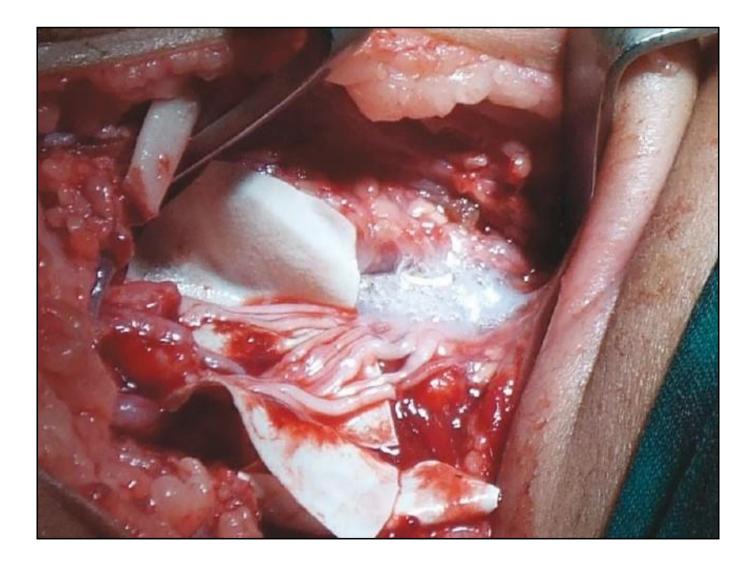
- failing to identify the heterogeneity of the injury
- pain should again be identified and diagnosed CRPS is not a diagnosis it is set of symptoms some of which are surgically treatable (neurostenalgia, post traumatic symptomatic neuroma, neuritis, causalgia)

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SUMMARY

- There are clear and common sense guidelines.
- They are often not adhered to.
- In elective care and emergency care.
- There is very often significant delay that produce material loss.



- Nerve injury Surgeons can very quickly throw light on the case
- they can often (if early in the disease) offer your client an improvement on their clinical condition and prognosis.



