

### COMPLEX REGIONAL PAIN SYNDROME

- An <u>uncommon</u> pain syndrome, often seen following some inciting traumatic event
- · Most commonly fracture
- · Can occur following surgery, infection or even spontaneously
- · Clinically can vary widely from mild to significantly disabling

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# COMPLEX REGIONAL PAIN SYNDROME

- May have minimal trauma as antecedent
- Symptoms often spread outside the region of initial incident
- Pain in limb or regional distribution, not peripheral nerve/root

### COMPLEX REGIONAL PAIN SYNDROME

- · Former names:
- · Reflex sympathetic dystrophy (RSD, CRPS type I)
- Causalgia (CRPS type II)
- Sudeck's dystrophy
- Shoulder-hand syndrome
- Algodystrophy





















X-rays

- Sudeck's atrophy patchy osteopenia, ground glass appearance
- Triple phase bone scan
- Phases one and two nonspecific, osteopenia
- Third phase enhanced uptake in peri-articular structures

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### THREE PHASES

#### • Atrophic – >6 months

- Atrophy
- Contractures
- Skin is glossy, cool, dry



TREATMENT – CONTROVERSIAL

Steroids

Initial dose 30mg/ day for 2-12 weeks, then gradual taper

- Best evidence
- NSAIDs
- Cation channel blockers
- Antidepressants
- Bisphosphonates/Calcitonin
- Alpha adrenergic
- NMDA receptor antagonists





## TREATMENT - CONTROVERSIAL

- Dorsal Root Ganglion Stimulation (DRG)
- Recent study demonstrated 82% patients achieved >50% improvement in pain on visual analogue scale at 12 months
- Less postural variation
- · More expensive up front
- Both SCS and DRG cost effective compared to comprehensive medical management

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TREATMENT EFFICACY		
<ul> <li>Sandror</li> </ul>	ni, et al 2003	
<u>Treatment</u>	<u>% Received</u>	<u>% Effective</u>
Therapy	93	87
Prescription medication	49	80
Sympathetic block	45	79

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DETERMINING WORK-RELATEDNESS

- Need to have had another accepted work-related condition
- Diagnosis of CRPS that meets criteria







