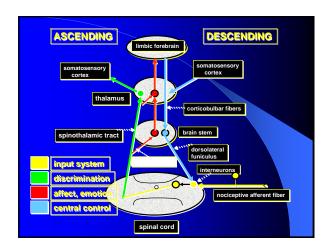
FIBROMYALGIA Kevin V. Hackshaw, M.D., The Ohio State University, Columbus, Ohio A chronic musculoskeletal pain amplification syndrome Fatigue Wide spread muscular aching Sleep disturbance Temperature intolerance

Demographics Female > Male (5:1) Age Onset: 9 - 60 Most commonly between 40 and 60 All Races Between 3 - 7% of the U.S. population is affected Inciting events: Trauma, Infection, MVA with whiplash, Head or Neck Injury

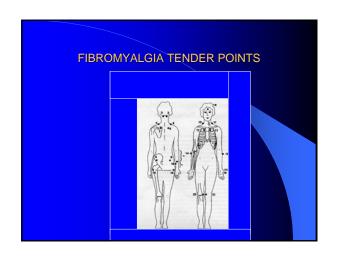


Mechanisms of Neuropathic Pain Spontaneous discharges either peripherally or centrally Localized demyelination, DRG abnormalities or aberrant Sodium or Calcium channels may contribute Aberrant expression of neurotransmitters in periphery or centrally leads to "Sensitization" Results is more ectopic firing

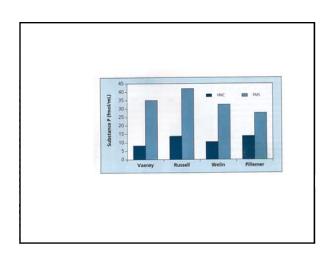
• ALLODYNIA
A NON-NOXIOUS
STIMULUS ELICITS
PAIN

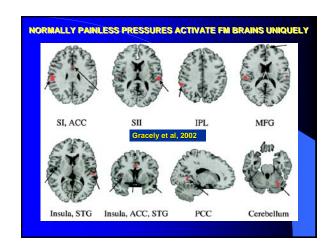
• HYPERALGESIA
AN EXAGERRATED
RESPONSE TO A
PAINFUL
STIMULUS

Non-rheumatic symptoms Anxiety Sleep disturbances Headaches Irritable bowel syndrome PMS Numbness Palpitations Mottled skin appearance Temperature instability



Diagnostic Criteria * Widespread subjective aching for more than 3 months * Pain in >11 of 18 tender points Subjective stiffness of more than 3 months Pain in all 4 quadrants of body "Normal Labs" to include ESR, CPK, TSH, SI Joint Films, ANA, Vitamin D Level, etc.





 Concurrent chronic fatigue, emotional distress, poor sleep, morning stiffness *specific diagnostic criteria

