

NEURAL THERAPY: The Significance of Scars

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What Are Scars?

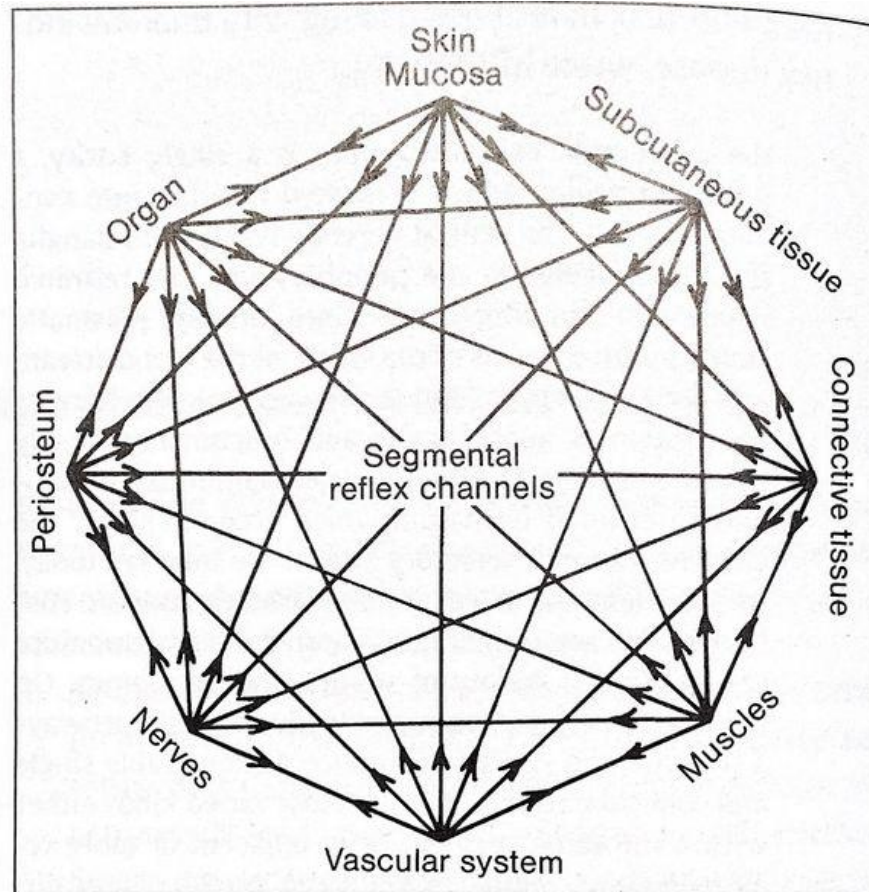
-ACCORDING TO HUNEKE SCARS ARE INTERFERENCE FIELDS OF NOXIOUS STIMULI WHICH CAN INTERRUPT LOCAL AND GLOBAL FUNCTIONS IN THE BODY.

-CUTANEOUS SCARS DECREASE THE ELECTROSTATIC ENERGY ACROSS THE SURFACE OF THE SKIN

-THUS NERVES OVER THE AREA OF THE SCAR OR IN CLOSE PROXIMITY CAN BE RENDERED NON-FUNCTIONAL DUE TO THE CONSTANT NOXIOUS STIMULI COMING FROM THAT REGION



KNEE BONES' CONNECTED TO THE JAW BONE..



What Do Scars Do To Surrounding Tissue?

- Trigger neurogenic inflammation
- Decrease the electrical potential of the skin in that region
- Reduce the effectiveness of the autonomic nervous system
- Disrupt conductivity of nutrients to cells
- Provide physical restrictions to movement of muscles/joints
- Delay recovery of musculoskeletal injury in otherwise non-chronic systemic patient presentation

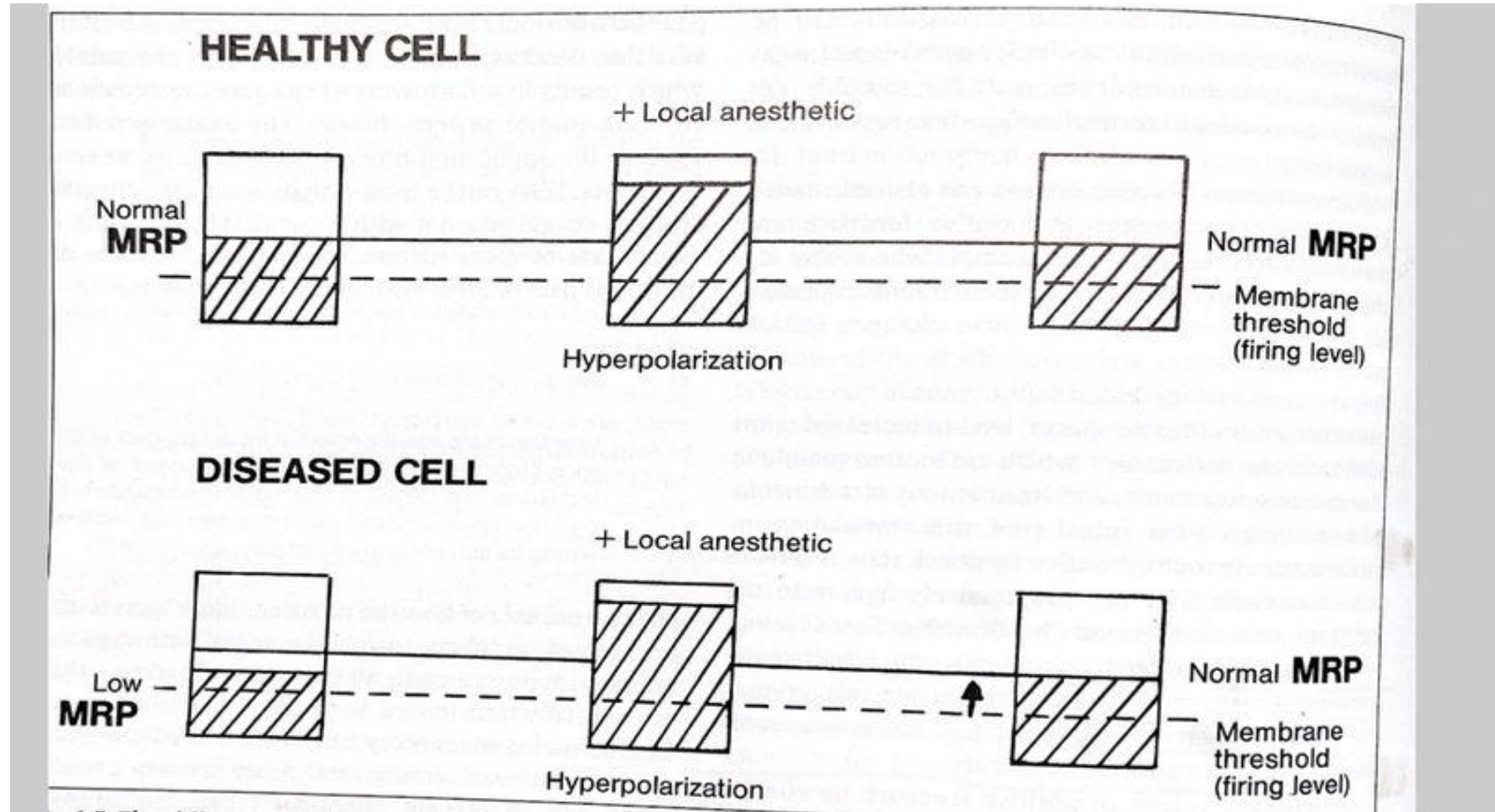
What is an Interference Field?

- SCARS
 - DENTAL PROBLEMS (CAVITIES, ABCESES, DEAD TEETH)
 - DEGENERATIVE JOINTS
 - RESTRICTED JOINTS OF THE SPINAL COLUMN
- ANYTHING THAT MODIFIES THE CONDUCTIVITY OF TISSUE BY CHANGING THE RESTING MEMBRANE POTENTIAL

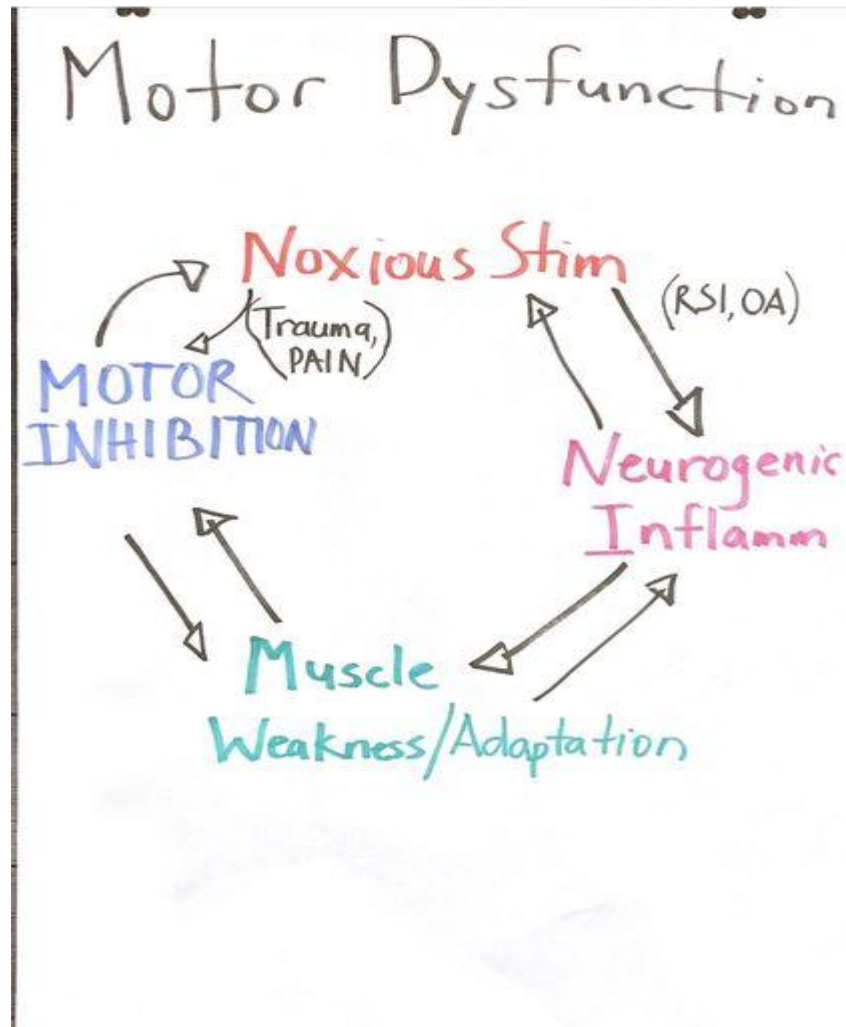
WHAT IS NEURAL THERAPY?

- LARGELY BASED ON THE WORK OF FERDINAND HUNEKE
- NOXIOUS STIMULI CHANGES THE ELECTRICAL POTENTIAL OF THE CELL AND POTENTIALLY ORGANS (**INTERFERENCE FIELD**)
- WHEN A NEEDLE PENETRATES THE SKIN, IT PASSES THROUGH THOUSANDS OF ELECTRICALLY CHARGED AUTONOMIC FIBRILS.
- THIS PRODUCES SHORT CIRCUITS IN THE AUTONOMIC NERVOUS SYSTEM WHICH BY-PASSES THE CELLS OR CUTANEOUS NERVES NOT WORKING
- *NOW THAT THE DEAD NERVE IS BY-PASSED, ELECTROSTATIC ENERGY CAN NOW FLOW INTO THE SURROUNDING TISSUE AND BALANCE ELECTROSTATIC POTENTIAL (MRP – MEMBRANE RESTING POTENTIAL)*
- **THE NEEDLE EFFECT, PAIN JOURNAL, LEWIT, K (1979)**

HOW NEURAL THERAPY WORKS



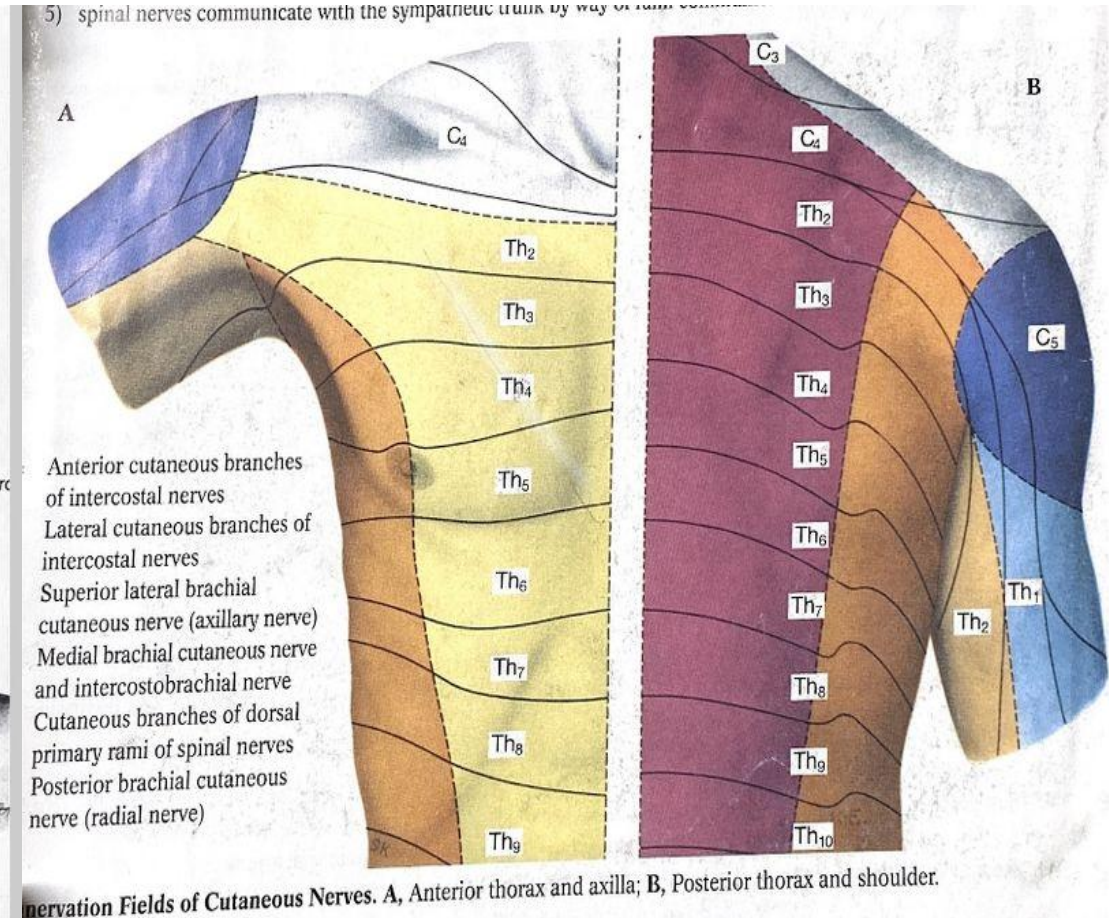
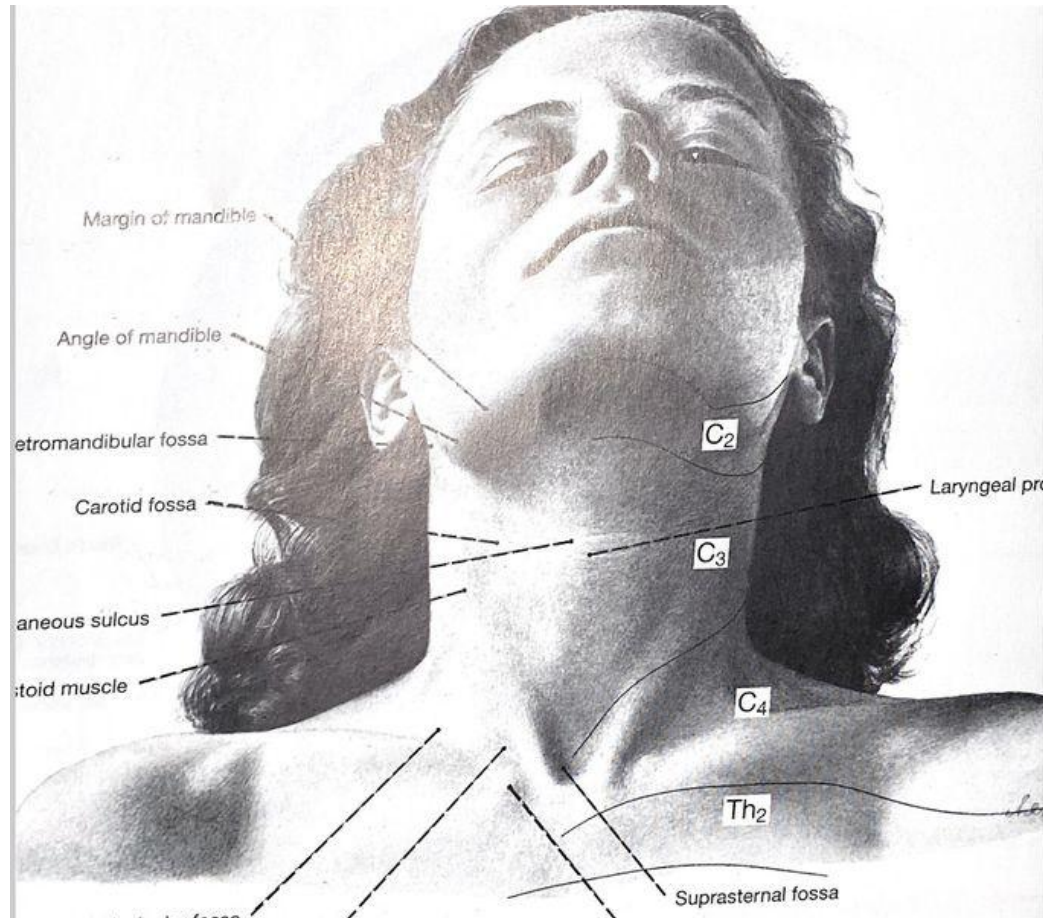
SCARS AND NEUROGENIC INFLAMMATION



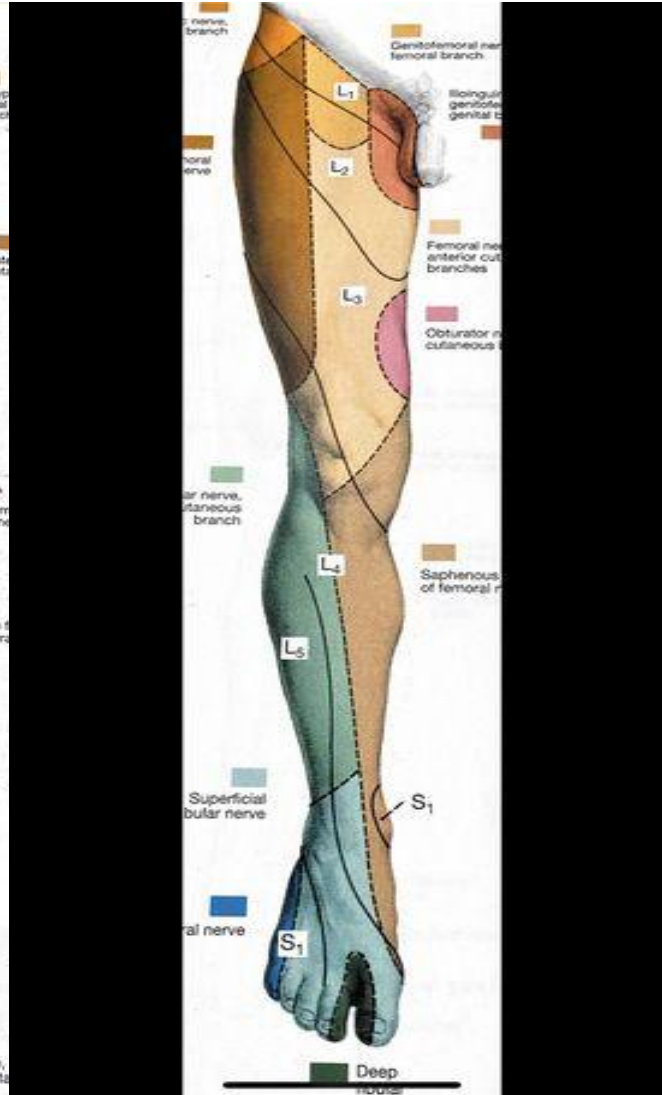
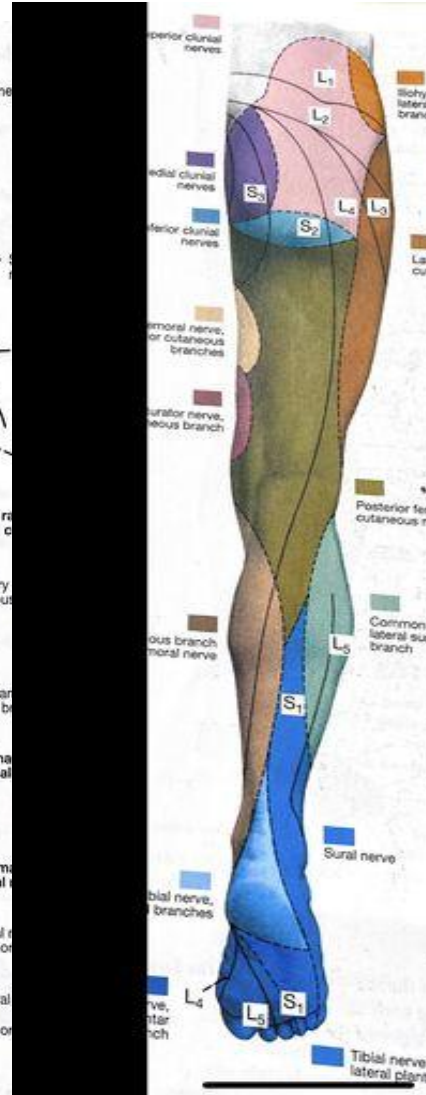
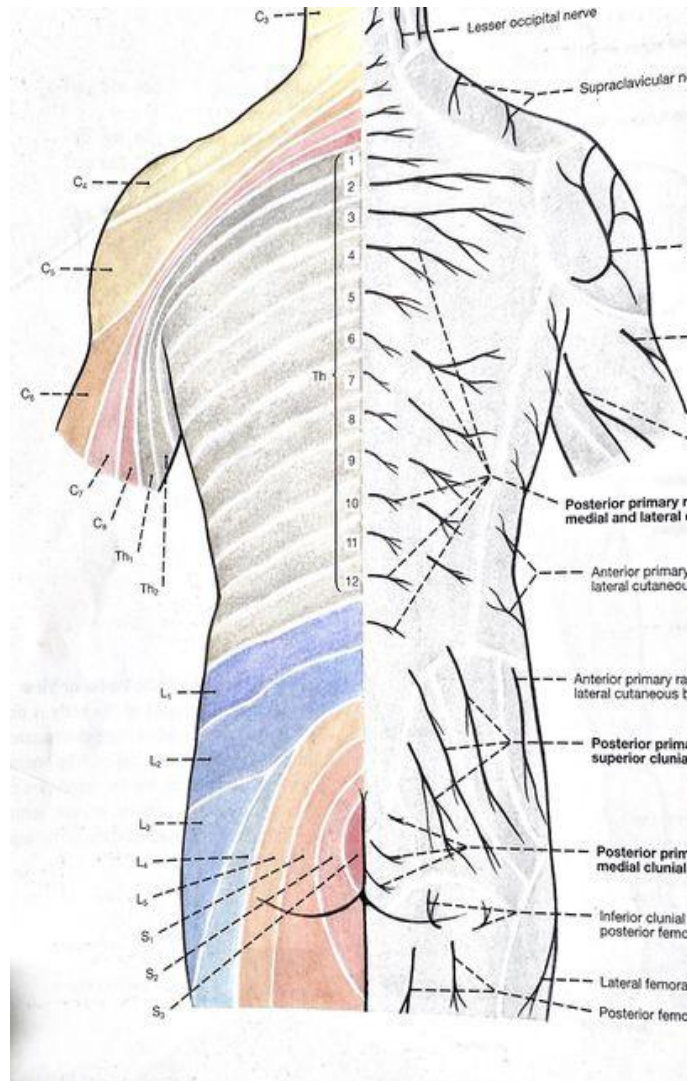
Effect of Neurogenic Inflammation

- ① Neurosensitivity (PAIN)
 - ② ADHESION formation
 - tight bands
 - knots
 - trigger points
- * Motor inhibition

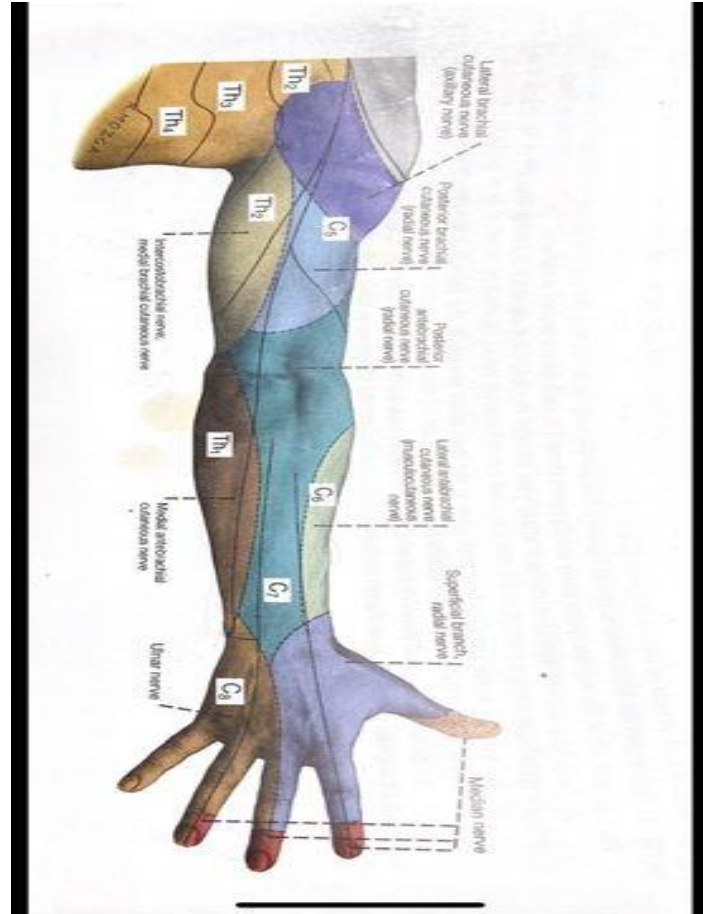
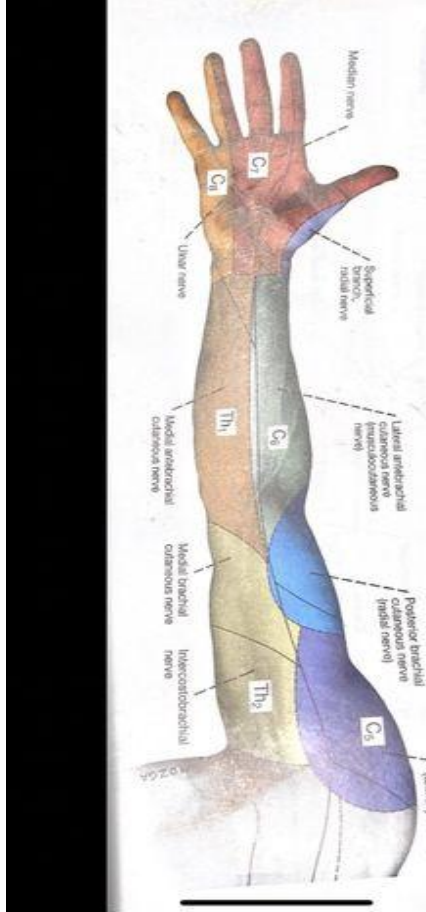
DERMATOMES



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SCARS, SEGMENTAL SENSITIZATION & PALPATION



CONTRAINDICATIONS OF NEURAL THERAPY

- MENTAL ILLNESS
- DEFICIENCY ILLNESS IE. HORMONAL, NUTRITIONAL , ETC
- HEREDITARY DISEASE
- INFECTION DISEASE
- CANCER
- PARASITIC ILLNESS
- SURGICAL EMERGENCY

HOW TO INCORPORATE SCARS INTO CLINICAL REASONING

- TURN YOUR ATTENTION TO SCARS WHEN MECHANICAL DYSFUNCTION OR SPECIFIC CONDITIONS EG. CHRONIC HEADACHES ARE NOT RESPONDING TO TREATMENT.
- RE-VISIT THE PATIENT HISTORY TO RULE OUT CHRONIC SYSTEMIC ILLNESS THAT MAY HAVE BEEN MISSED BY YOUR INITIAL ASSESSMENT
- AFTER FUNCTIONAL ASSESSMENT AND CORRESPONDING TREATMENT REVEALS MINIMAL RESULTS START CONSIDERING INTERFERENCE FIELDS AS A POSSIBLE LIMITING FACTOR
- EG. MY PATIENT LOW BACK SCAR

MANUAL ASSESSMENT

- LOCATE THE SCAR AND DETERMINE THE DERMATOME INVOLVED
- PERFORM SKIN ROLLING ON THE SPINAL SEGMENT REGION ABOVE AND BELOW THE INVOLVED DERMATOME
- USE DIGITAL PRESSURE OVER THE SEGMENT OR JOINT OF THE AFFECTED SEGMENT TO SEE IF IT ELICITS A TENDERNESS RESPONSE
- PERFORM GENERAL RANGE OF MOTION AND MUSCLE TESTING ALONG THE AFFECTED SPINAL SEGMENT AND THE PERIPHERAL JOINTS NEAR THE SCAR.

SCAR THREADING TOOLS

- NEEDLE LENGTHS: 50,75,125 MM
- GAUGE OF NEEDLES: .25, .30, .35
- USE YOUR NON-DOMINANT HAND
- WEAR GLOVES (NOT JUST FOR SANITARY REASONS)

SCAR THREADING PRACTICE

- BEGIN WITH HEALTHY TISSUE
- TRY TO START THE NEEDLE AS CLOSE TO ZERO DEGREES AS POSSIBLE
- YOUR NON-DOMINANT HAND CAN BE USED TO LIFT THE SKIN IN ORDER TO START THE THREAD
- STARTING THE THREAD CAN BE DONE WITH/WITHOUT THE TUBE
- USE YOUR NON-DOMINANT HAND TO CREATE TENSION ALONGSIDE THE NEEDLE AS IT PIERCES UNDERNEATH THE SCAR.

TREATMENT OF SCARS

- THREAD NEEDLE AT EITHER END OF THE SCAR
- CLIP EITHER END (RED/BLACK)
- SET ITO/DEVICE AT 100 Hz
- RUN FOR 15 MINUTES
- USE THIS WINDOW TO PERFORM SOFT TISSUE MANIPULATION TO IMPROVE ROM AND SOFT TISSUE HEALTH