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## **The Literature/Evidence Timeline for Spondylogenic Reflex Syndromes**

**L. Frank Jarrell, DC**

### **Kelligren, J. H.**

- Original studies performed via injecting noxious compounds into clavicular and vertebral structures.
1. Kelligren, J. H.: Observation of Referred Pain Arising from Muscles. Clinical Science 3: 175, 1938.
  2. Kelligren, J. H.: On the Distribution of Pain Arising from Deep Somatic Structures with Charts of Segmental Pain Areas. Clinical Science 4: 35, 1939.

### **Feinstein, B.,**

- Feinstein's work was built on Kelligren's study using 75 students to map non-radicular pain patterns.
1. Feinstein, B., J.N.K. Langton, R.M. Jameson, F. Schitter: Experiments on Pain Referred from Deep Somatic Tissue, J Bone Joint Surgery 36A: 981, 1954. –

### **Wyke, B**

- Used studies on cats to clearly illustrate reflexogenic relationships between mechano-receptors in the apophyseal joint capsule and peripheral muscle contractures.
  - His work is primary resource in understanding nociception and innervation of vertebral / apophyseal structures and it's relation to non radicular syndromes
1. Wyke, B. D.: The Neurological Basis of Thoracic Spinal Pain. Rheum Phys. Med 10: 356, 1967.
  2. Wyke, B. D.: Morphological and Functional Features of the Innervation of the Costovertebral Joints. Folia Morphol 23: 296, 1975.

3. Wyke, B. D.: Clinical Significance of Articular Receptor System in the Limbs and Spine. Proc. Of the 5<sup>th</sup> Int. Congress of Manual Medicine, Copenhagen, 1977.
4. Wyke, B. D.: Neurological Mechanisms in the Experience of Pain. Acupuncture and Electro-Therapies 4: 27, 1979a.
5. Wyke, B. D.: Neurology of the Cervical Spinal Joints. Physiotherapy 65: 72, 1979b.
6. Wyke, B. D.: Perspectives in Physiotherapy. Physiotherapy 32: 261, 1980.
7. Wyke, B. D, P. Polecek,: Structural and Functional Characteristics of the Joint Receptor Apparatus. Acta Chir Orthop Traum. Cech. 40: 489, 1973
8. Wyke, B. D, P. Polecek,: Articular Neurology – the Present Position. J Bone Joint Surg 57B: 401, 1975.

### **Sutter, M**

- Described the Spondylogenic Reflex Syndrome (SRS)
  - Correlated specific “soft tissue rheumatism” or reflexive muscle contractions per vertebral segment via palpation
  - Describes causative factor as the unstable facet joint (used the term “mispositioned”).
1. Sutter, M.: Versuch einer Wesensbestimmung pseudoradikulärer Syndrome. Schweiz Rundsch Med Praxis 63: 842, 1974. Schweizerische Rundschau für Medizin Praxis
  2. M Sutter: An Attempt to Define Radicular and Pseudoradicular Syndromes (author's translation)
  3. Sutter, M.: Wesen, Klinik und Bedeutung Spondylogener Refkexsyndrome. Schweiz Rundsch Med Praxis 64: 42, 1975. M Sutter: Nature, Clinic and Significance of Spondylogenic Reflex Syndrome (author's translation) Schweiz Rundsch Med Prax, Oct 1975; 64(42): 1351-7
  4. Sutter, M.: Rückern-, Kreuz- und Beinshmerzen bei funktionell instabilen Becken. Ther Umsch 34: 452, 1977. M Sutter [Backache and Leg Pains Due to a Functionally Unstable Pelvis (author's translation)] Ther Umsch 1977; 34 (6)
  5. Sutter, M.; R. Fröhlich: Spondylogene Zusammenhänge im Bereiche der oberen Thorax-Apparatur. Report of the Annual Meeting of the Swiss Society for Manual Medicine, 1981
  6. Sutter, M.; R. Unnamed. Helv Chim Acta, 30:7 1947 ISSN: 0018019X pg 2102-9

### **Dvorak & Dvorak (Jiri and Vaclav) Manual Medicine 1983**

- Charted the SRS muscles per segment based on Sutter’s description and prior research via palpation.
- Used Wyke’s work on neurology and nociceptors in the veterbra to validate clinically apparent ‘non-radicular pain patterns’

- Used Kellegrin & Feinstein studies injecting noxious substance into the facet (apophyseal) joints, mapping non radicular pain patterns, noting muscle spasms I,e. in cervical region specific to SCMS, etc

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