

INCIDENCE OF MYOFASCIAL PAIN

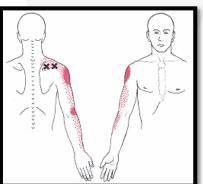
Incidence of Myofascial Pain In Primary, Secondary and Tertiary Care A cohort study

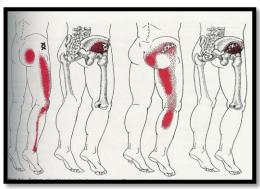
Negev Bar M.D.

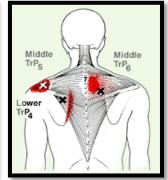
Department of Family Medicine in Haifa, Israel Chairman of the Israel Society of Musculoskeletal Medicine

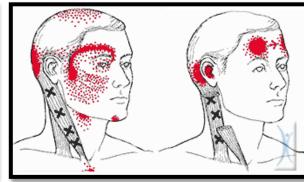
History

- Regional Pain Local or referred pain pattern from active trigger point (TrP) http://www.triggerpoints.net/
 - Acute, chronic or recurrent pain
 - Mild disturbing pain to severe excruciating pain
 - Vague, diffuse vs. sharp, localized pain
 - Poor response to medications (including opioids)
 - "Mechanical features": activity increases the pain and rest decreases it









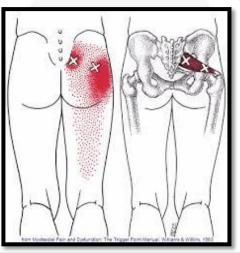
Travell & Simons' Myofascial Pain and Dysfunction. Vol 1

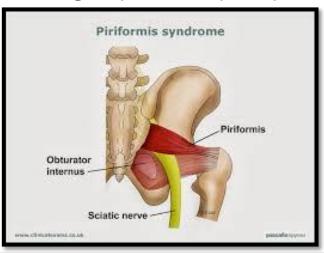


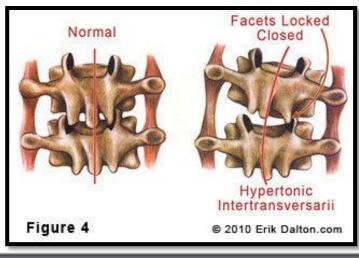
History

Other symptoms:

- o "Neuropathic-like" features Paresthesia, burning, numbness
- "Nociceptive-like" features Arthralgia (facet, etc)
- o Tinnitus, nausea, dizziness etc.
- "Chronic pain triage": poor sleep, depressed mood & malfunction



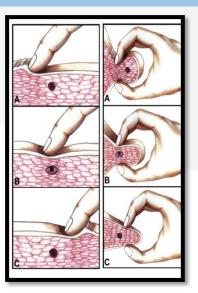




Physical examination

- The affected muscle:
 - Reduced range of motion (ROM) reversible!
 - Muscle weakness
 - Taut band palpable (tender "rope" like thickening)
 - Trigger point (TrP)
 - ➤ Palpable nodule (1-4mm pea-like in the taut band)
 - Very tender "jump sign" (trigger the pain)
 - > The patient's pain can be re-produced by pressing the TrP
 - Local twitch response (LTR) can be elicited by needling the TrP

https://www.youtube.com/watch?v=BYO4Bu4y-5Q



Physical examination

- Other signs Local cutaneous autonomic dysfunction: (seen only in chronic pain)
 - Vasomotor (temperature or color changes)
 - Pilomotor (cutis anserina = goose bumps/flash)
 - Sudomotor (abnormal sweating or edema)







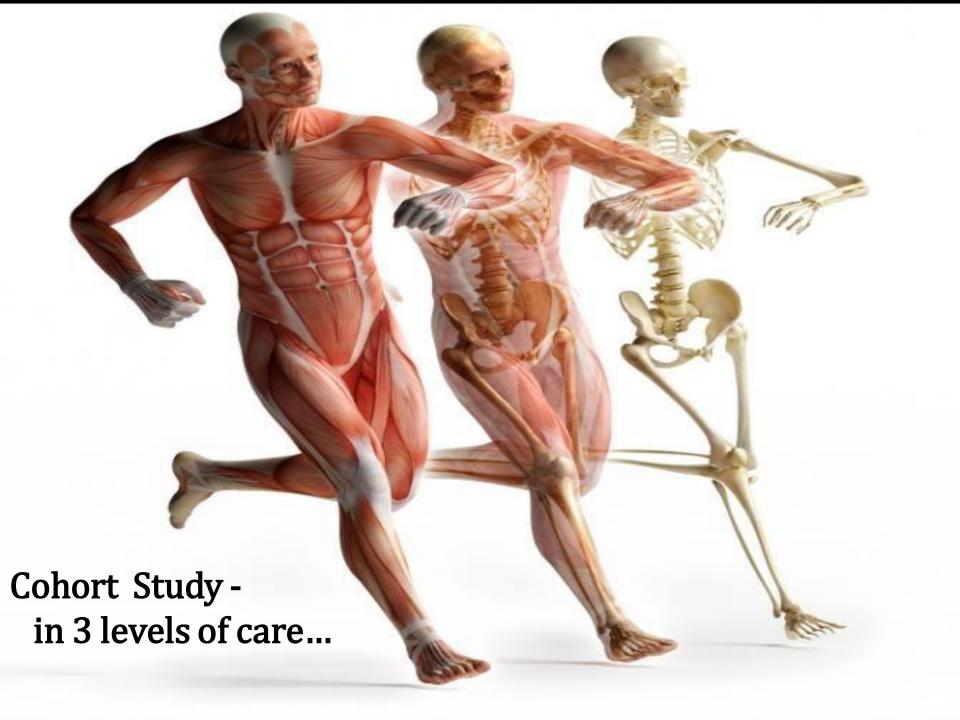
MYOFASCIAL PAIN - CLINICAL CRITERIA

Regional Pain

Sign / symptom	Difficulty	Mean kappa	Diagnostic value alone
Spot Tenderness	*	0.7	*
Referred Pain	**	0.47	*
Palpable Band	***/***	0.54	**
Pain Recognition	**	0.59	***
Twitch Response	****	0.23	****

- TrPs and MFP are not a diagnosis by exclusion
- No Imaging or lab test are needed





INCIDENCE OF MFP – PRIMARY CARE

A Family Physician Clinic (Israel)

- ፟
- Kibbutz Dalia & Kibbutz Ein-Shemer 2 countryside villages
 - Rural clinics 650 patients each with 1 family physician, 2 nurses.
 - Multi-generational population, from newborns to end of life care







INCIDENCE OF MFP – PRIMARY CARE

A Family Physician Clinic (Israel)

- 6 months, Cohort study in a family physician clinic
- All patients with pain (excluding cancer pain)

127 patients 138 pain episodes

- Age 11-85 (mean 58), 61% females
- 13% chronic pain, 87% acute pain, 13% recurrent episodes
- 92% myofascial pain
- 27% low back pain



Community based pain consultation - Co-visit model:

- The family physician host the pain trustees in the primary clinic
 - Holistic pain evaluation
 - Bio-psycho-social approach
 - Low cost service
 - Improved availability
 - The patient has an active role in healing
 - Multidisciplinary Teamwork
 - Empowers the primary physician





Co-visit pain consultant in the community (Israel)



- Yokneam a medium size township in the north of Israel
 - o Alonim Clinic 6500 patients, 4 family physicians + 1 resident
 - Mainly adults population, average to high socio-economic status





Co-visit pain consultant in the community (Israel)



- 9 months, Cohort study in a community pain service
- All patients referred to the pain service

95 patients 100 pain episodes

- Age 22-83 (mean 51), 60% females
- 51% chronic pain, 49% acute pain, 5% recurrent episodes
- 75% myofascial pain
- 41% low back pain

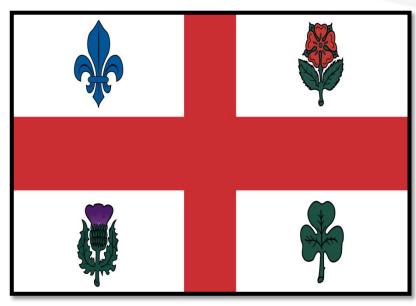




Co-visit pain consultant in the community (Canada)

- Montreal a metropolitan in Quebec province, east Canada
 - Herzl clinic 30,000 patients, 20 family physicians and 30 residents.
 - A huge university clinic with a big multi-cultural immigrant population.





Co-visit pain consultant in the community (Canada)

• 9 months, Cohort study in a community pain service

All patients referred to the pain service

63 patients 64 pain episodes

- Age 20-86 (mean 51), 49% females
- 81% chronic pain, 19% acute pain, 4% recurrent episodes
- 73% myofascial pain
- 43% low back pain



INCIDENCE OF MFP – TERTIARY CARE

University hospital - Chronic pain clinic (Canada)

- · Montreal General Hospital The main hospital at McGill university
 - AEPMU -13 physicians, 5 psychologist, 2 physiotherapists, 1 chiropractor
 - High volume pain center, academic and research activity, multidisciplinary





INCIDENCE OF MFP – TERTIARY CARE

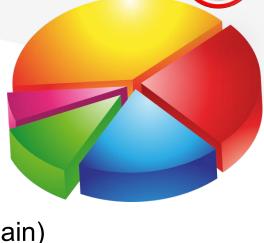
University hospital - Chronic pain clinic (Canada)

• 12 months, Cohort study in a hospital pain center

Patients referred to the <u>chronic pain clinic</u>

127 patients

- Age 22-93 (mean 54), 62% females
- 99% chronic pain, 1% acute pain ("ultra-chronic" pain)
- 63% myofascial pain
- 53% low back pain

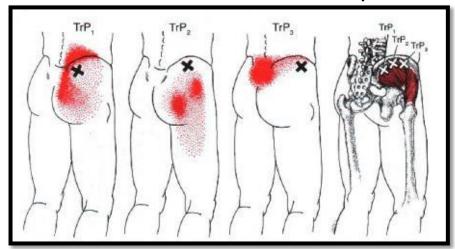


TAKE HOME MESSAGE



Myofascial Pain Syndrome

- Is the most common etiology for pain, at all levels of care.
 - Primary care > 90%
 - Secondary care > 70%
 - Tertiary care > 50%
- Low back pain is the most common site of pain

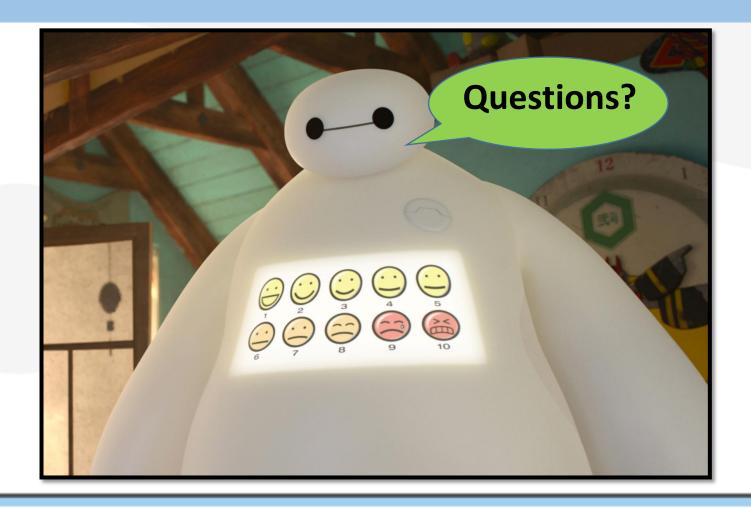


THE MYOFASCIAL ENIGMA...





THANK YOU!



החברה הישראלית לרפואת שריר שלד The Israeli Society of Musculoskeletal Medicine