6th "Open Forum for Osteopathic Education" Conference



TEACHING OSTEOPATHIC DIAGNOSTICS

OSTEOPATHIC DECISION-MAKING PROCESS AND ADAPTIVE SALUTOGENIC TREATMENT

- World cafè -

16.15 – 18.00 Workshop 4

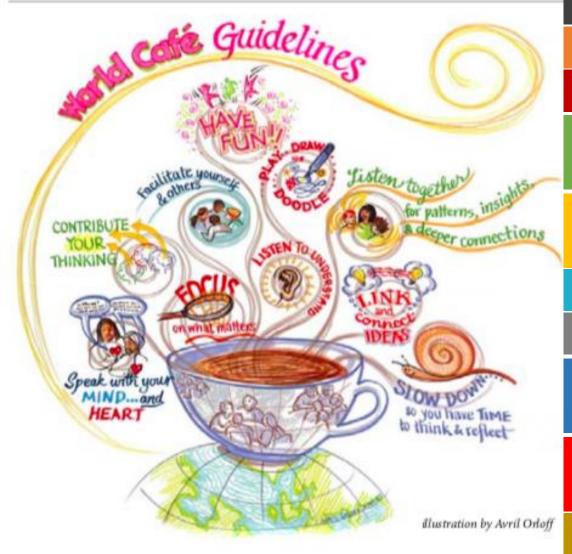
Christian Lunghi







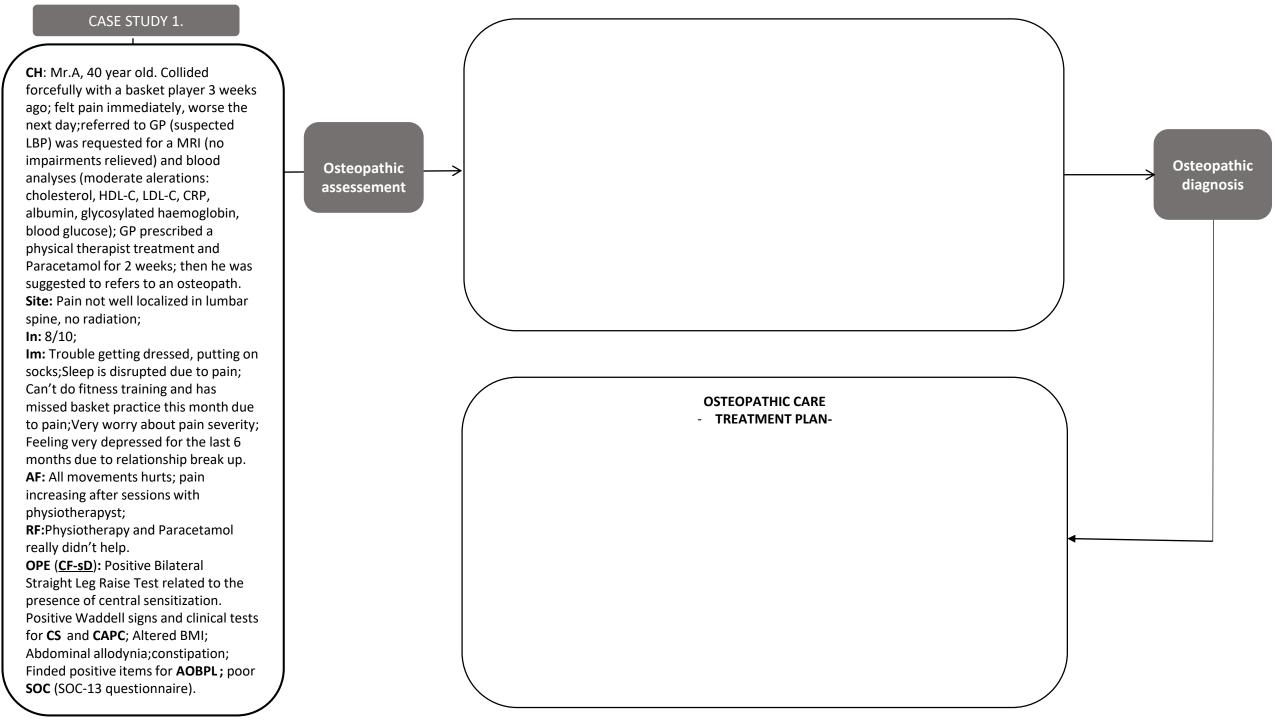
Café Etiquette



Play! Experiment! Improvise!

WORLD CAFE How it takes place?

- Create 4 groups of 11 people seated around a table
- Nominate the groups referents
- Description of CASE and MINDLINE (disorienting problem and difficult individual solution)
- Discussion of the group about different apsects or questions of the topic previously presented
- Graphic expression of concepts and ideas emerging in
- Cross-Pollination
- The referents welcome the participantss and summarize the ideas and themes that emerged in the previous
- During the summary the participants connect the ideas of the previous dialogues
- Sequence of successive turns
- Plenary discussion, identification of recurring patterns
- Creating a new framework a collective MINDLINE



CASE STUDY 1.

CH: Mr.A, 40 year old. Collided forcefully with a basket player 3 weeks ago; felt pain immediately, worse the next day;referred to GP (suspected LBP) was requested for a MRI (no impairments relieved) and blood analyses (moderate alerations: cholesterol, HDL-C, LDL-C, CRP, albumin, glycosylated haemoglobin, blood glucose); GP prescribed a physical therapist treatment and Paracetamol for 2 weeks; then he was suggested to refers to an osteopath.

Site: Pain not well localized in lumbar spine, no radiation;

In: 8/10;

Im: Trouble getting dressed, putting on socks; Sleep is disrupted due to pain; Can't do fitness training and has missed basket practice this month due to pain; Very worry about pain severity; Feeling very depressed for the last 6 months due to relationship break up.

AF: All movements hurts; pain increasing after sessions with physiotherapyst;

RF:Physiotherapy and Paracetamol really didn't help.

OPE (<u>CF-sD</u>): Positive Bilateral Straight Leg Raise Test.Symptoms related to the presence of central sensitization. Positive Waddell signs and clinical tests for **CS** and **CAPC**; Altered BMI; Abdominal allodynia; constipation; Finded positive items for **AOBPL**; poor **SOC** (SOC-13 questionnaire). [M99.9 other regions]
FCS not compensated,
related to general adaptation syndrome
[M99.9 other regions]
FCP (positive axial fascia) related to
biomechanical-metabolic- psychosocial
overload

overload

SDs: [M99.2 - D9], [M99.3 - L2], [M99,9 -Abdominal region]

Evaluation of the clinical relevance hypothesis

- n. 1 to 3 sessions. Provocative tests on SDs [D9, L2, abdominal region] evocate an incresing of pain during Straight Leg Raise and CS tests; more severe items of CAPC; more touble putting on socks.
- n. 4 to 5 sessions. Provocative tests on SDs (Abdominal region, L2) evocate no pain during Straight Leg Raise Test and CS tests; good items on CAPC; no Waddell signs; less touble putting on socks.

Osteopathic diagnosis (CF-CD/cD)

OSTEOPATHIC CARE- TREATMENT PLAN (CF-CD/cD)

- 1 session. Maximalist-systemic approaches such as General Osteopathic Treatment (interoceptive approach and lymphatic pump techniques) for 3 times in a week, and advice to remain active with exercises focused on improving biomechanical-metabolic-psychological functions;
- n. 4 session (after 2 week- reduced pain and more specific in the lumbar spine, easy in getting dressed, desappeared catastrophizing behavior, no abdominal allodynia, specific tenderness reported in the left iliac region). Minimalist-specific approaches focused on SDs such as articulatory (L 2) and visceral osteopathic techniques (Abdominal region); symptom based approaches as described in guidelines; re-referral to GP (prescriptions: physiotherapy group exercise program; nutritional advices; blood analyses).
- N.5 session (after 3 week no pain in the lumbar spine, no more trouble in getting dressed, no abdominal tenderness, no constipation, better waist-to-hip ratio. Better SOC). Symptom based approaches as described in guidelines, such as specific diaphragm techniques (**CF-cD**): The patient refers his willpower to start again playing basket.

OSTEOPATHIC DECISION-EVALUATION OF THE MAKING PROCESS TISSUE ALTERATIONS RELATED TO GAS **CLINICAL RELEVANCE** AND SELF-REGULATORY CAPACITY **HYPOTHESIS** (I.E. FASCIAL PATTERNS) **CASE HISTORY** STRUCTURE-FUNCTION PROVOCATION TEST 1. OBJECTIVE EXAMINATION Integration of*: **OSTEOPATHIC** CONSTITUTIONAL AND POSTURAL **ASSESSEMENT OBSERVATION** O OSTEOPATHIC PALPATION FINDINGS PHYSICAL EXAMINATION TESTS PHYSICAL EXAMINATION TESTS FINDINGS BIOMEDICAL FUNCTIONAL TESTS FINDINGS 2. DIFFERENTIAL DIAGNOSIS CLINICAL PREDISCTION RUES **TISSUE ALTERATIONS RELATED TO LAS** FAMILIAR SYMPTOM AND CONCORDANCE SIGNS INDICATION- CONTRAINDICATIONS (I.E. SOMATIC DYSFUNCTION) 3. MULTIDIMENSIONAL ASPECTS OF PATIENT'S * OSTEOPATHS SHOULD CONSIDER SCIENTIFIC CONDITION RESEARCH FINDINGS ON SIMILAR CLINICAL CONTEXT FAMILIAR SYMPTOM AND CONCORDANCE SIGNS 4. INDIVIUAL ADAPTIVE ABILITY STRESS AND ALLOSTATIC BIOMARKERS, LIFEMARKERS, PSICOMARKERS **OSTEOPATHIC CARE-TREATMENT PLAN OSTEOPATHIC DIAGNOSIS** o SALUTOGENESIS INDICATORS (SOC) - of the current session (integration of the maximalist or minimalist approach with the symptomatic approach); INTEGRATION OF BIOMEDICAL AND OSTEOPATHIC SELF REGULATIVE B-N-EM-CR-BPS of the entire treatment (frequency between sessions, ongoing management, etc.); FINDINGS FOR THE SELECTION OF STRUCTURE-FUNCTIONALITY (BIOMEDICAL FUNCTIONAL sharing the plan with the person. FUNCTION MODELS AND OSTEOPATHIC TECHNIQUES. SYSTEMIC-MAXIMALIST APPROACH SYMPTOM BASED APPROACH SPECIFIC-MINIMALIST APPROACH PROGRESSIVE INDIVIDUALIZED **APPROACHES** Systemic, homeostatic-adaptogenic Techniques selected by research studies Direct, Indirect, combined techniques; the techniques; the activation force is coherent conducted on similar complaints and7or activation force is coherent with Lifestyle, exercise and nutritional advice with the overload function and model related to regional interdependence. dysfunctional tissue and model selection. selection. **EVALUATION OF TREATMENT OUTCOMES** AND MANAGEMENT OF THE PERSON

S/F model's selection RECURRENT **ADAPTIVE** DISEASES CAPACITY - allostatic overload biomarkers, psychomarkers and lifemarkers ACTIVATING RECURRENT RECURRENT FORCE **OVERLOADED OVERLOADED** STRUCTURE **FUNCTION** MANUAL **EVALUATION** Osteopathic Fascial compensation **Biomedical** - Self regulation systems overload assessement scheme Fascial compartments pattern Somatic dysfunction

Biomedical examination findings

Allostatic overload biomarkers, psycomarkers, lifemarkers

Biomarkers: e.g. neuroendocrine, metabolic, immunological markers(McEwen, 2015)

Psycomarkers: Depression, anxiety and stress scales (Nilges and Essau, 2015)

Lifemarkers: e.g. Social Readjustment Rating Scale and sense of coherence scale(Ngai and Ngu, 2013)

Self regulation systems overload assessement

Biomechanical: postural control test (Bohannon et al., 1984)

Neurological: e.g. manual assessment tests of central sensitization (Nijs et al., 2010) and of autonomic nervous system tone (Cheshire and Goldstein, 2018)

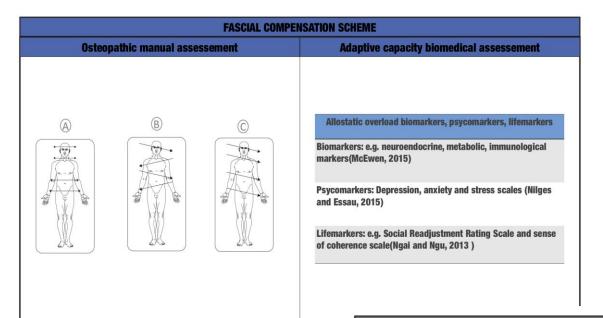
Respiratory: i.e. respiratory rate and breathing patterns stiffness(Cheshire and Goldstein, 2018)

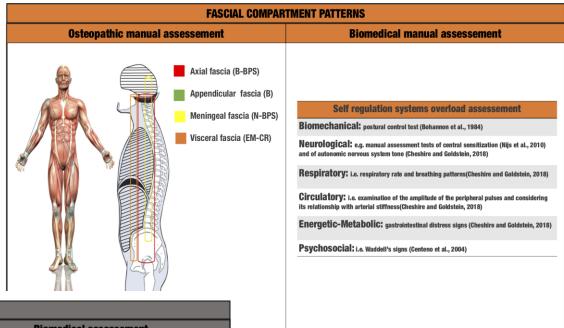
Circulatory: i.e. examination of the amplitude of the peripheral pulses and considering its relationship with arterial stiffness(Cheshire and Goldstein, 2018)

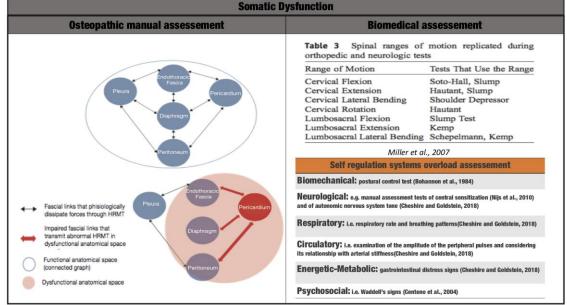
Energetic-Metabolic: gastrointestinal distress signs stiffness(Cheshire and Goldstein, 2018)

Psychosocial: i.e. Waddell's signs (Centeno et al., 2004)

Osteopahtic palpation findings







Osteopathic palpation outcomes:

- Somatic dysfunctions
- General fascial patterns

Clinical relevance hypothesis: technique's selection

Objective examination tests related to patient presentation

Structure/Function Interdipendence Assesement

Multidimensional aspects of the consultation pattern

Objective examination tests related to self regulative activities

Contextualizing research in the clinical context



Arch Phys Med Rehabil. 2018 Sep;99(9):1720-1729. doi: 10.1016/j.apmr.2018.04.022. Epub 2018 May 19.

Osteopathic Manipulative Treatment Including Specific Diaphragm Techniques Improves Pain and Disability in Chronic Nonspecific Low Back Pain: A Randomized Trial.

Martí-Salvador M¹, Hidalgo-Moreno L¹, Doménech-Fernández J², Lisón JF³, Arguisuelas MD⁴.

CONCLUSIONS: An OMT protocol that includes diaphragm techniques produces significant and clinically relevant improvements in pain and disability in patients with NS-CLBP compared to the same OMT protocol using sham diaphragm techniques.

Issues for discussion



BASE CLINICAL REASONING ON OSTEOPATHIC PRINCIPLES AND MODELS.

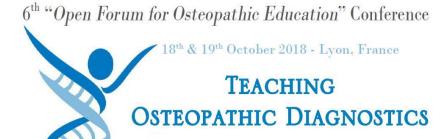
EVALUATE LOCALIZED FASCIAL SYSTEM ALTERATION (I.E. SOMATIC DYSFUNCTION) RELEATED TO LOCAL ADAPTATION SYNDROME AND ALLOSTATIC OVERLOAD.

EVALUATE GENERALIZED FASCIAL SYSTEM ALTERATION (I.E. FASCIAL POSTURAL PATTERNS) RELEATED TO GENERAL ADAPTATION SYNDROME, ALLOSTATIC OVERLOAD AND BIOMECHANICAL, CIRCULATORY-RESPIRATORY, NEUROLOGICAL, ENERGETIC-METABOLIC, BEHAVIORAL SELF-REGULATION SYSTEMS.

APPLY EVIDENCE BASED PRACTICE IN OSTEOPATHIC CLINICAL ACTIVITY CONSIDERING THE EXPECTATIONS AND VALUES OF THE PATIENT AND THE POPULATION.

SUGGESTED READINGS

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18th & 19th October 2018 - Lyon, France

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"You are not a drop in the ocean. You are the entire ocean in a drop." رومى محمد الدينجلال [Jalāl ad-Dīn Muhammad Rūmī]