#### Systemic Systemic DRY NEEDLING

#### SYSTEMIC DRY NEEDLING FOR PAIN MANAGEMENT AND SPORTS MEDICINE

Sue Falsone PT, MS, SCS, ATC, CSCS, COMT President and Founder, S&F: Structure and Function President and Founder, Dr. Ma's Systemic Dry Needling

### S&F S&F: STRUCTURE AND FUNCTION

#### System Dry Needling for Athletes

Treatment of soft tissue injuries Prevention of chronic injuries Optimizing athletic performance Health-promotion of athletes Age Management (slowing body ageing) Prolong athletic career

9/2/2014 2



#### SYSTEMIC DRY NEEDLING

- In our approach the athlete body is treated as a whole system which consists of subsystems.
- Each subsystem is analyzed and treated in a systemic way to treat injuries, to prevent injuries, and to balance the subsystem and the whole system.

#### LAW #1

- All needling models clinically work
- All models are partially truthful empirical models
- There is no scientifically truthful model of dry needling

The "Laws" of Dry Needling Therapy

#### LAW #2

 If any scientific researches support one model, in fact, the research support all models



#### LAW #3

- If any scientific researches denies or falsifies the theory of particular model, they only deny that theory, not the clinical practice of the model.
- This part of the law explains that the clinical technique is effective, but the theories which explain the technique can be scientifically wrong

#### LAW #4

- All needling techniques of different models are clinically effective
- One technique does not exclude the other.

#### LAW #5

- Physiologically all models do not conflict with each other
- Thus it is possible to integrate all models into a new model

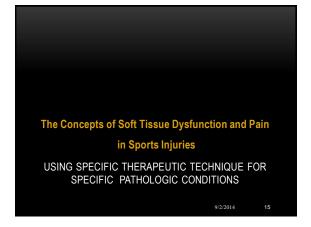
EVIDENCE BASED MEDICINE

#### WHAT DATA CAN BE DEFINED AS **EVIDENCE?**

- · All data can be used as evidence to support or falsify a particular model
- Highest quality of evidence is the randomized trials or systemic reviews of randomized trials
  - This category of evidence is the lowest likelihood of bias, and hence is the strongest evidence

#### LIMITATIONS OF EVIDENCE-BASED MEDICINE

- · It has been recognized that providing evidence from clinical research is a necessary but not sufficient to provide optimal care
- · Clinical practice should drive research
- Research should assist in clinical decision making •
- · Evidence, whether strong or weak, is never independently sufficient to make clinical decisions







#### Dry Needling is Most Effective for:

- 1. Neuropathic factors (sensory, motor, sympathetic nerves)
- 2. Inflammation/edema Contracture/spasm of soft tissues
- Blockage of microcirculation

- 8. Biomechanical imbalance

9/2/2014



## Electrical Stimulation of Needles is Most

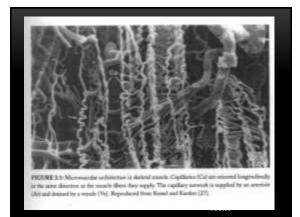
- 3. Contracture/spasm of soft tissues
- Blockage of microcirculation
- Tissue adhesion
- Scar tissues
- 8. Biomechanical imbalance

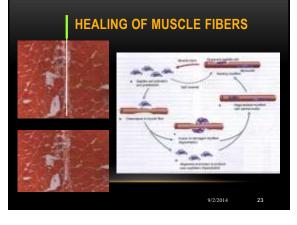
# WHAT MAKES DRY NEEDLING THERAPY DIFFERENT FROM OTHER THERAPIES ?





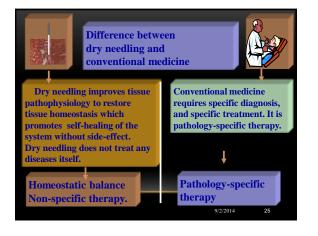
<section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item>





#### PHYSIOLOGICALLY RELEASES:

- Adenosine (smooth muscle vasodialator)
- <u>*Hydrogen and nitric oxide*</u> (skeletal muscle vasodialator)
- <u>CGRP</u> (local anti-inflammatory and anti-nocioceptive)
- <u>Enkephlin</u> (anti-nocioceptive in dorsal horn)
- <u>Beta-endorphin</u> ("feel good" peptide released in brain)
- Blood circulation improves, swelling reduces, metabolism increases, inflammatory markers become diluted

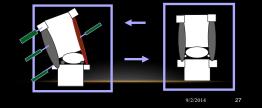


# CHARACTERISTICS OF DRY NEEDLING THERAPY

- 1. Non-specific physiological normalization of soft tissue dysfunction
- 2. Restoration of homeostasis
- 3. Promotion of self-healing
- 4. No interference with natural pathologic processes (Pain, inflammation, fever)

#### HOW DOES SDN RESTORE/IMPROVE BIOMECHANICS OF THE MS SYSTEM?

- Injured soft tissues are deformed which misalign musculoskeletal structure
- Needling injured tissues speed up self-healing to restore the musculoskeletal biomechanics

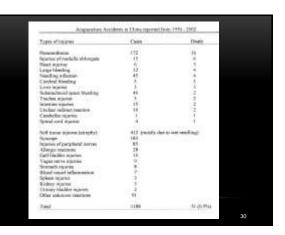


#### SYSTEM DRY NEEDLING FOR ATHLETES

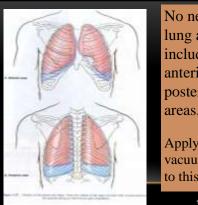
- Treatment of soft tissue injuries
- Prevention of chronic injuries
- Optimizing athletic performance
- · Health-promotion of athletes
- Age Management (slowing body aging)
- Prolong athletic career

014









No needling in lung area including anterior and posterior chest areas.

Apply only vacuum therapy to this area.

lateral area. Apply only vacuum

No needling in lung area including both

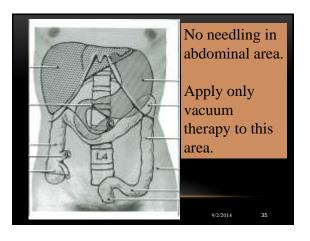
therapy to this area.

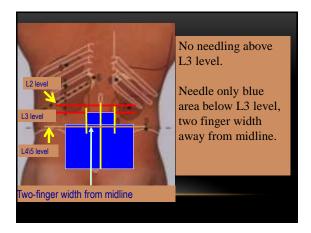


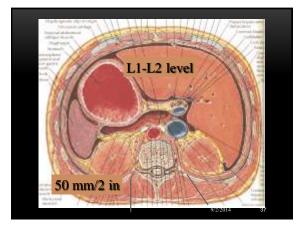
No needling in abdominal and kidney areas.

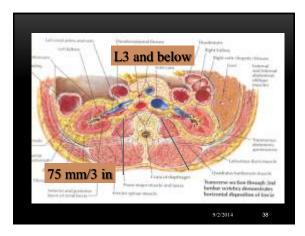
Note: right kidney is lower than the left one.

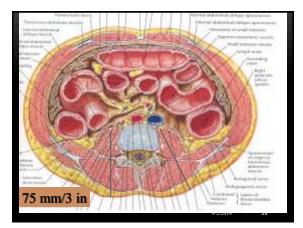
Apply only vacuum therapy to this area.











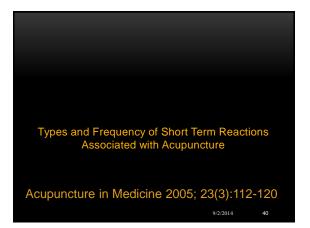
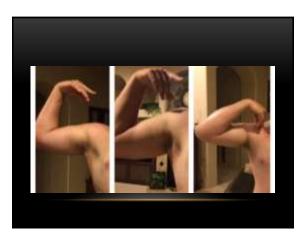
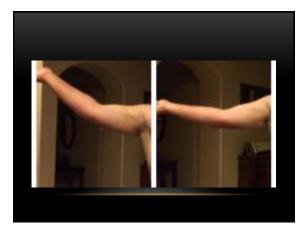


Table 1. Posi n=9408	tive Reactions	
Type of event	Number of reported reactions	%
Relaxed	7436	79.1
Energized	3072	32.7
Other positive	166	1.8
Tiredness or	2295	24.4
drowsiness		
	9/2/2014	

Table 2-1 Negative	Reactions, n=9408	
Type of event	Number of reported reactions	%
Pain where needle was inserted	1154	12.3
Bruising	378	4.0
Pain other than at site of needling	373	4.0
Faint/dizzy	248	2.6
Worsening of condition	165	1.8
Nauseous	111	1.2 014 42

Table 2-2 Negative Reactions, n=9408				
Sweating	79	0.8		
Bleeding	66	0.7		
Disorientation/anxiety/	63	0.7		
nervousness/insomnia/emotional				
Ache/discomfort	49	0.5		
other than at needle point				
Itching/pins & needles/tingling/	33	0.4		
burning sensation				
Irritation/ache at needle point	24	0.3		
Other negative	33	0.443		



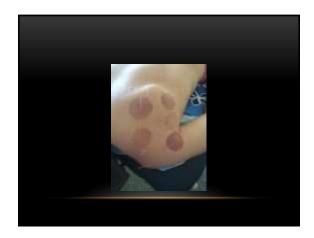




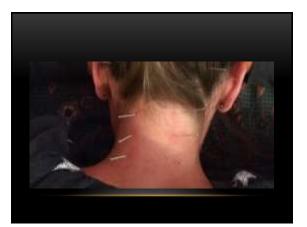












### SYSTEMIC DRY NEEDLING STAY IN TOUCH

www.suefalsone.com

www.systemicdryneedling.com

- FB: Sue Falsone Pt Atc
- Twitter: suefalsone
- Instagram: suefalsone
- LinkedIn: Sue Falsone
- Email: sue@suefalsone.com