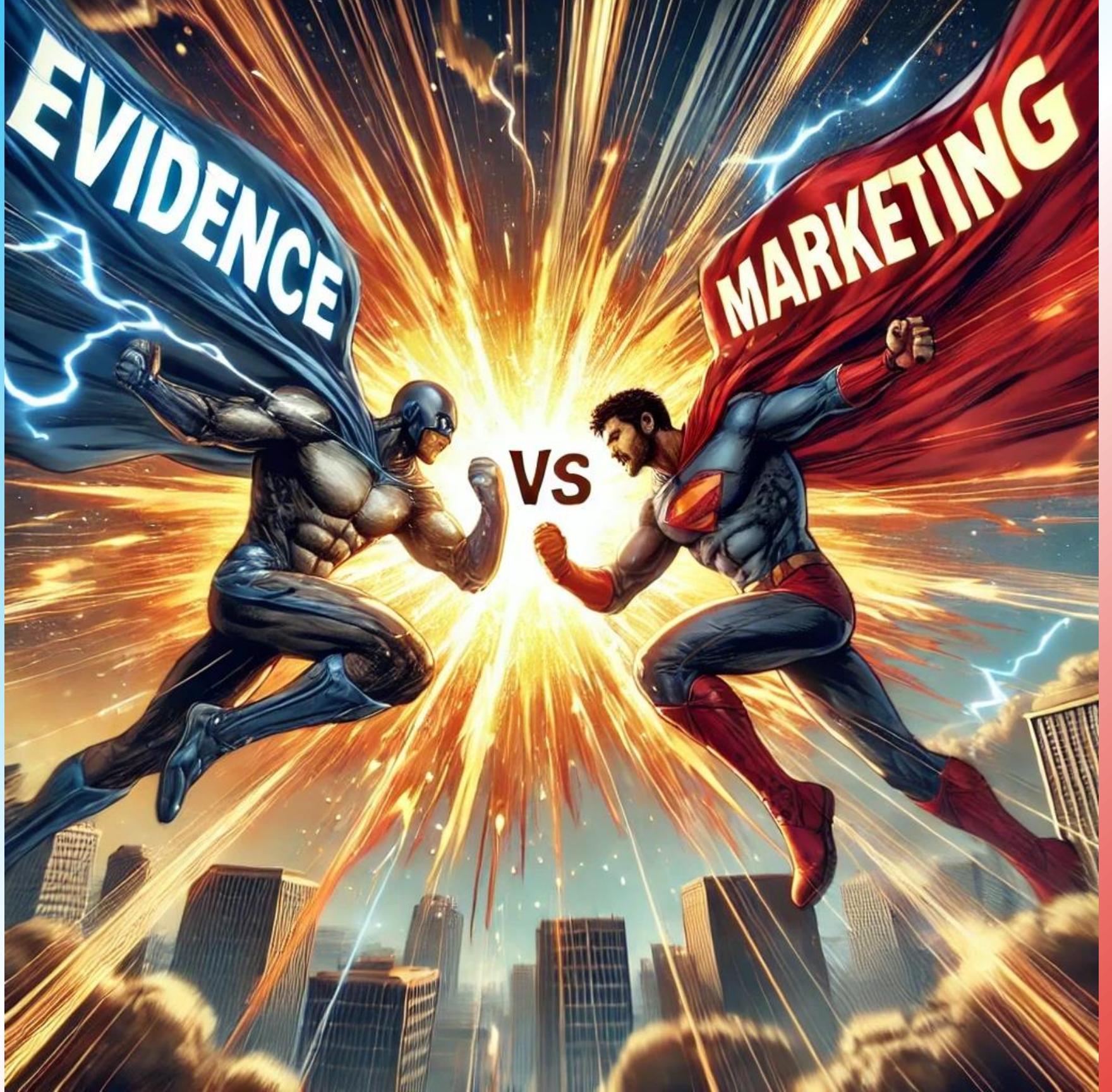


WHAT TO DO WHEN THERE IS NO EVIDENCE?

Dr. Lorena Canosa Carro

lorena.canosa@universidadeuropea.es

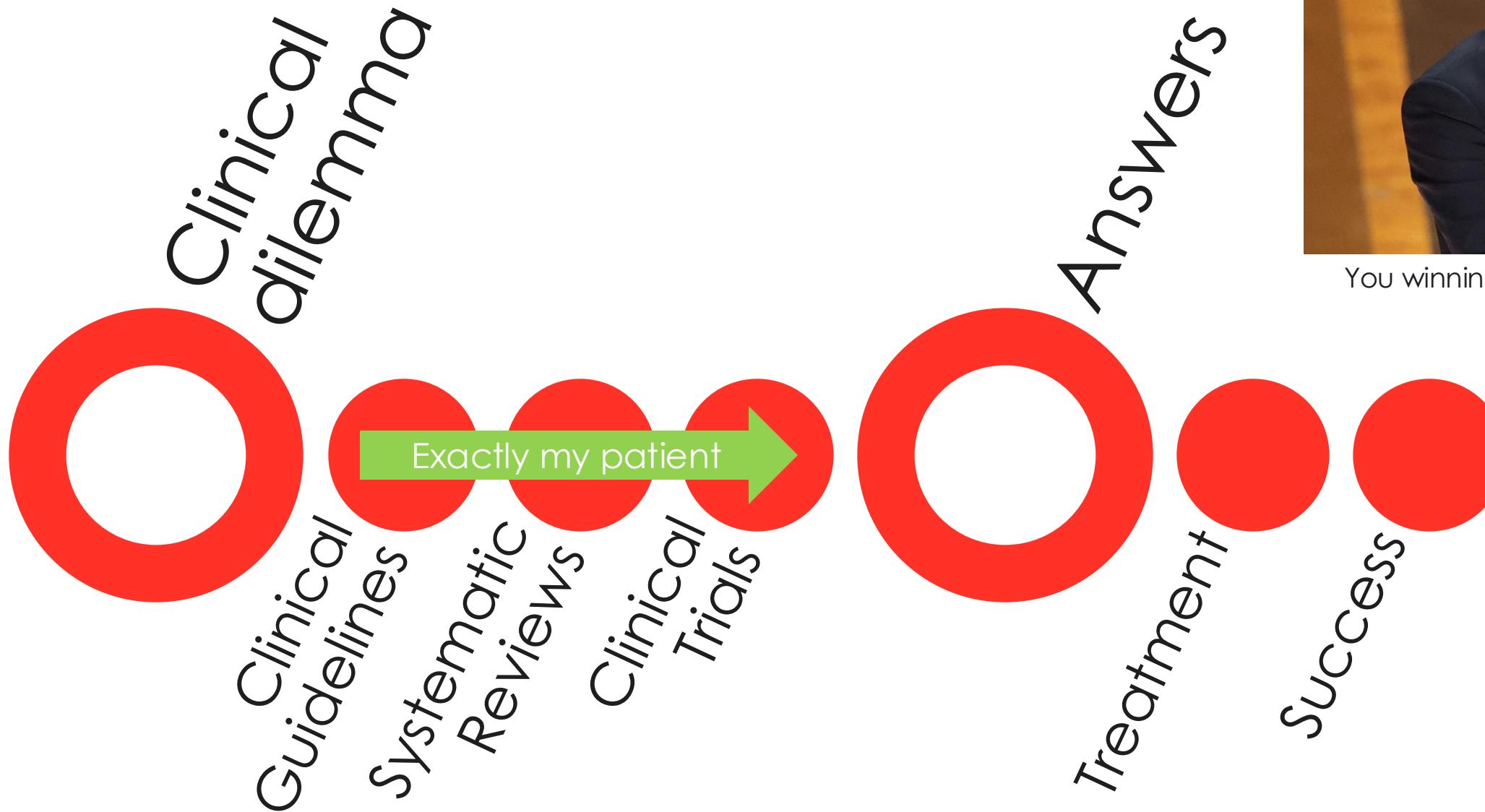


What do we
mean by “No
evidence”

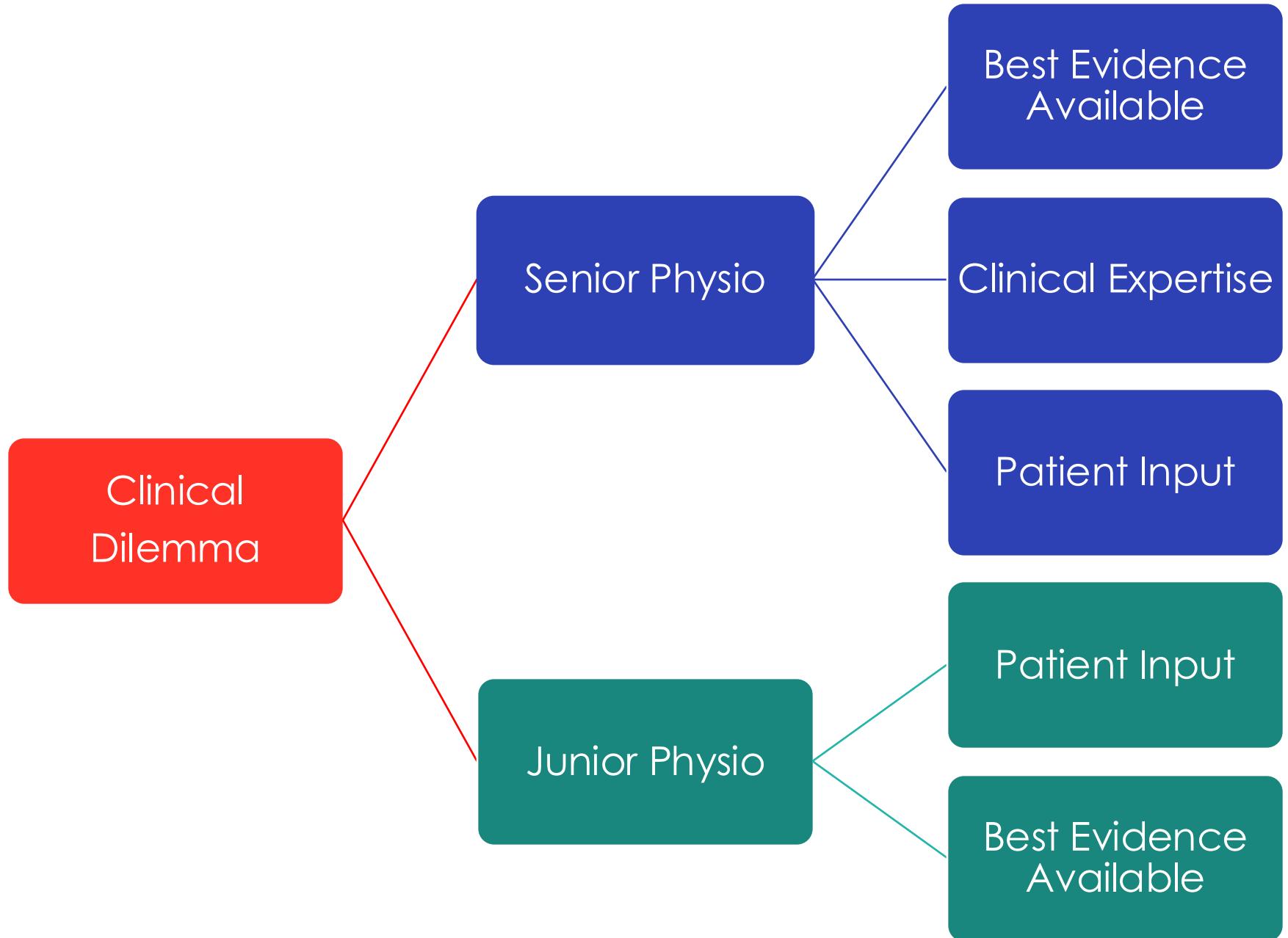
404

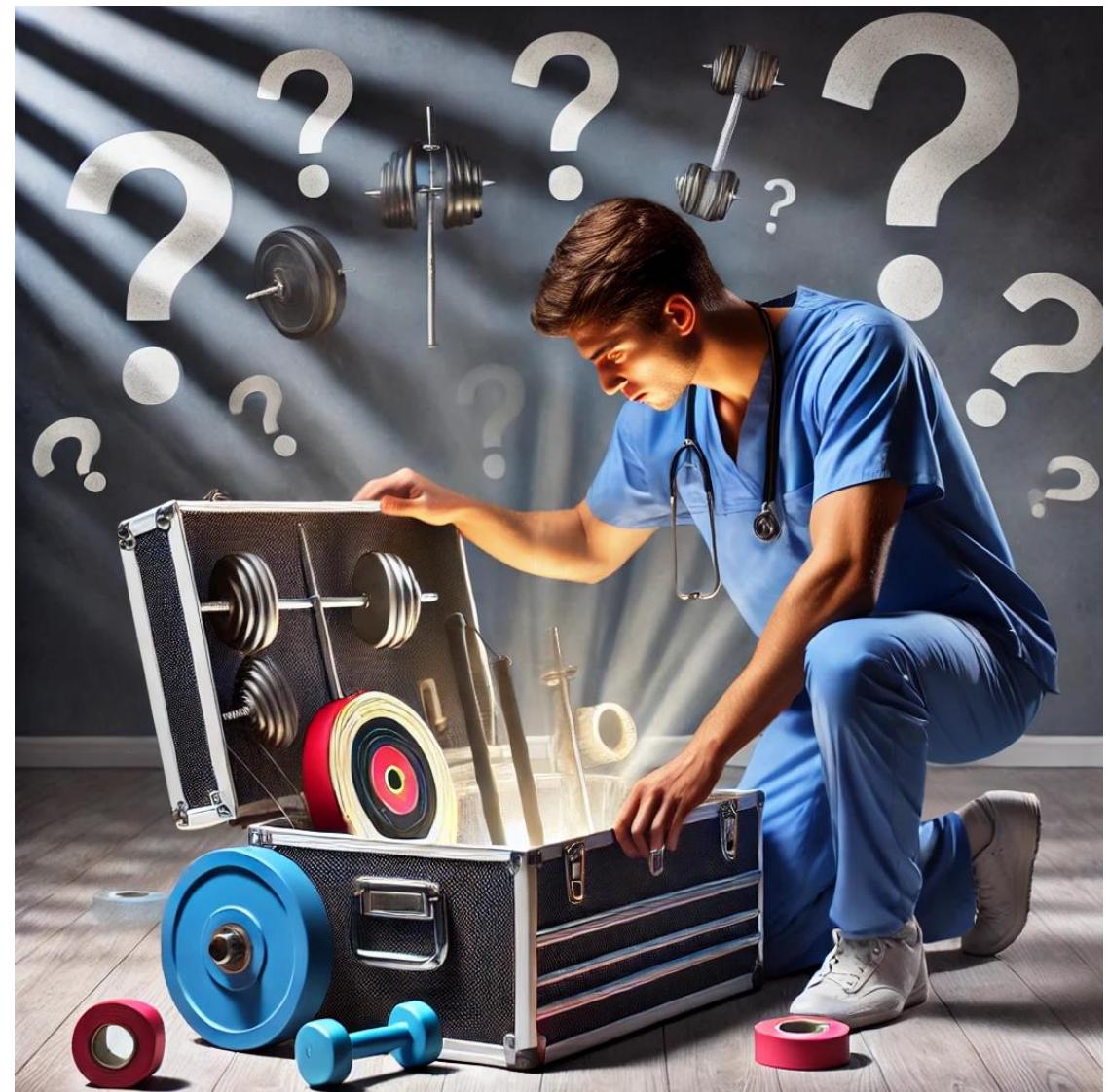
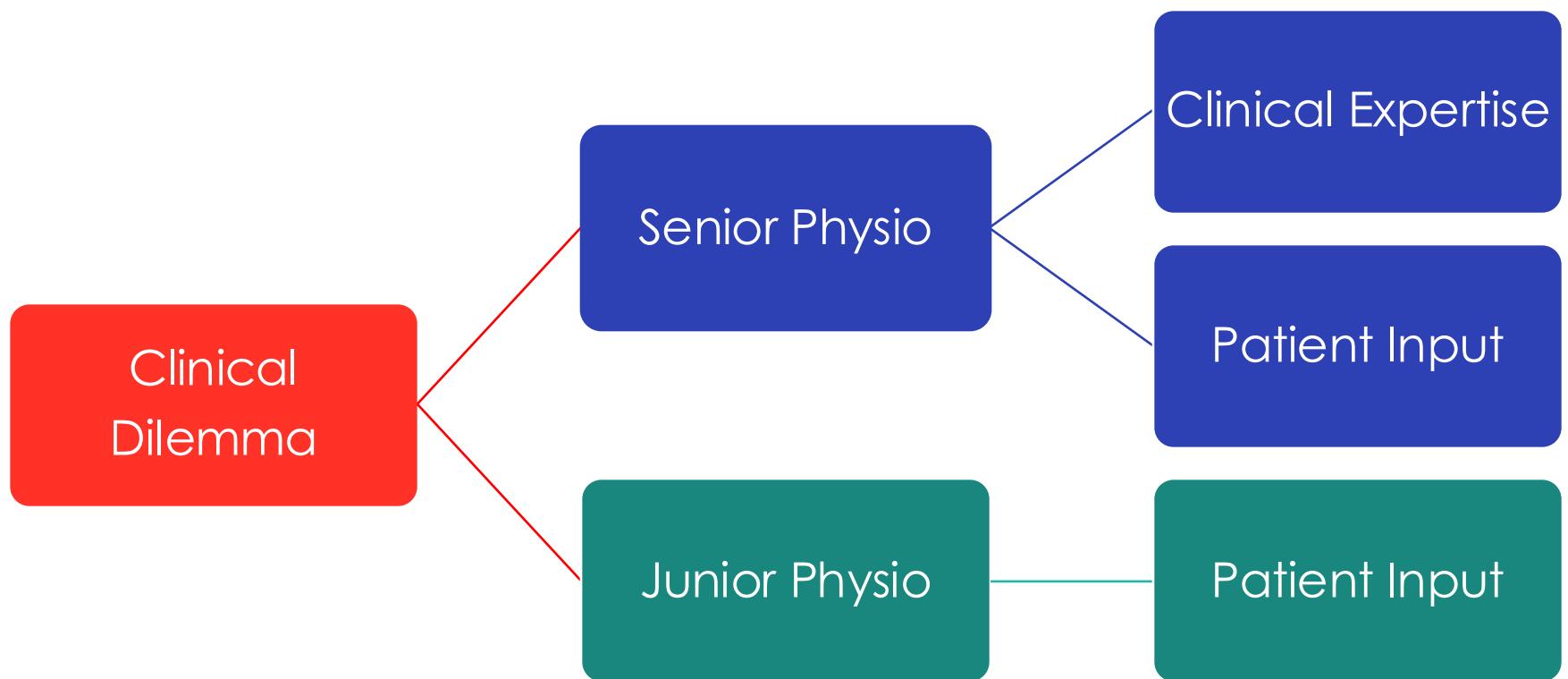
Evidence not found

The Ideal World



You winning the Award for **Best Physio of the year**





Not our target population

> Int J Environ Res Public Health. 2022 Nov 3;19(21):14426. doi: 10.3390/ijerph192114426.

Plantar Fasciitis in Soccer Players-A Systemic Review

David C Noriega ^{1 2}, Ángel Cristo ¹, Alejandro León ¹, Belén García-Medrano ¹,
Alberto Caballero-García ³, Alfredo Córdova-Martinez ⁴

Not our injury/problem

Clinical Trial

> J Sport Rehabil. 2022 Nov 21;32(3):265-271. doi: 10.1123/jsr.2022-0021.

Print 2023 Mar 1.

Ultrasound-Guided Percutaneous Needle Electrolysis Combined With Therapeutic Exercise May Add Benefit in the Management of Soleus Injury in Female Soccer Players: A Pilot Study

Blanca De-la-Cruz-Torres ¹, Beatriz Romero-Rodríguez ¹, Carlos Romero-Morales ²

Not our segment

Randomized Controlled Trial

> Br J Sports Med. 2015 Oct;49(19):1277-83.

doi: 10.1136/bjsports-2014-094386. Epub 2015 May 15.

Isometric exercise induces analgesia and reduces inhibition in patellar tendinopathy

Ebonie Rio ¹, Dawson Kidgell ², Craig Purdam ³, Jamie Gaida ⁴, G Lorimer Moseley ⁵,
Alan J Pearce ⁶, Jill Cook ¹

Not our treatment

Review

> Int J Environ Res Public Health. 2022 Feb 7;19(3):1859.

doi: 10.3390/ijerph19031859.

The Effectiveness of Ultrasound Deep Heat Therapy for Adhesive Capsulitis: A Systematic Review and Meta-Analysis

Jung-Ha Sung ¹, Jung-Min Lee ^{1 2 3}, Jung-Hyun Kim ^{1 4}

Not evidence at all

"soccer players" AND "muscle injury" AND "treatment" AND "vastus media" X Search

[Advanced](#) [Create alert](#) [Create RSS](#) [User Guide](#)

Sort by: Best match Display options

No results were found.

 Your search was processed without automatic term mapping because it retrieved zero results.

PARTIAL VASTUS LATERALIS TEAR AFTER A DIRECT IMPACT IN A FEMALE PROFESSIONAL SOCCER PLAYER. WITH HEMATOMA, PARTIAL LOSS OF FUNCTION, PAIN, MID SEASSON, WITH THREE IMPORTANT MATCHES AHEAD.

1. Do no harm

BACK
TO
BASICS



1. Do no harm
2. Anatomy

BACK
TO
BASICS



1. Do no harm
2. Anatomy
3. Physiology

BACK
TO
BASICS



1. Do no harm
2. Anatomy
3. Physiology
4. Biomechanics

BACK
TO
BASICS



1. Do no harm
2. Anatomy
3. Physiology
4. Biomechanics
5. Pain Mechanisms



1. Do no harm
2. Anatomy
3. Physiology
4. Biomechanics
5. Pain Mechanisms
6. Clinical Reasoning



1. Do no harm
2. Anatomy
3. Physiology
4. Biomechanics
5. Pain Mechanisms
6. Clinical Reasoning
7. Talk to other professionals

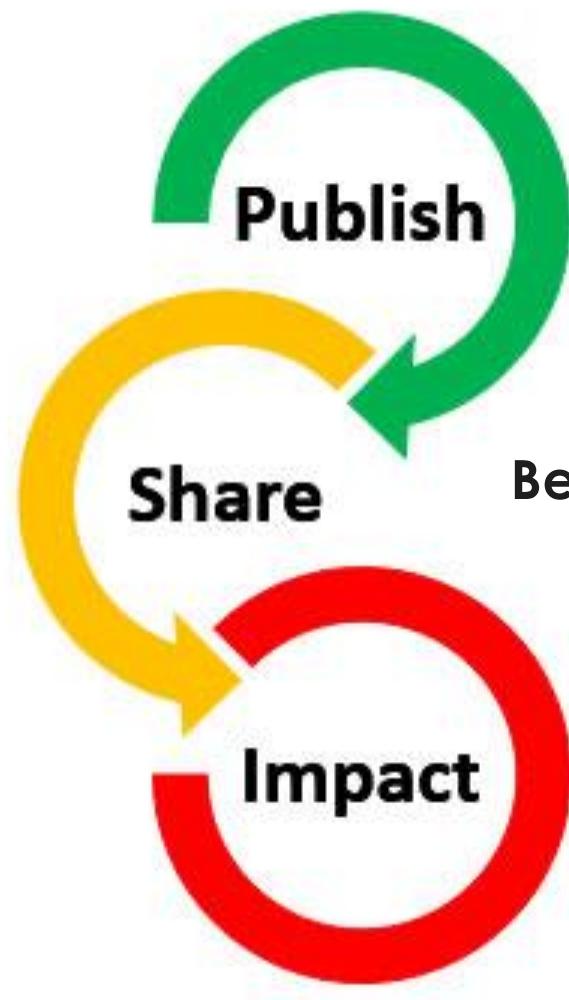


1. Do no harm
2. Anatomy
3. Physiology
4. Biomechanics
5. Pain Mechanisms
6. Clinical Reasoning
7. Talk to other professionals
8. Record & Measure Everything

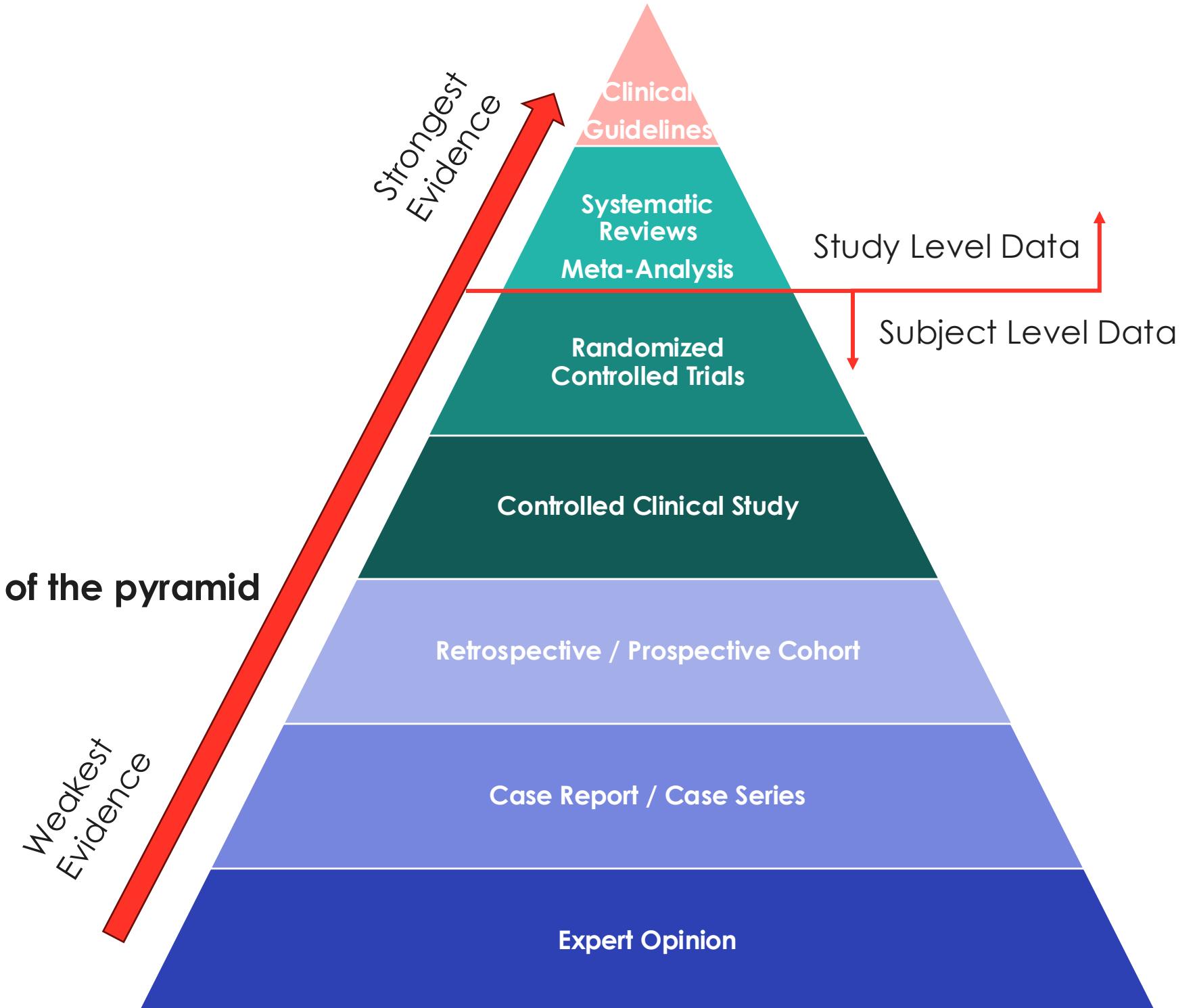
BACK
TO
BASICS



And now:



Become part of the pyramid

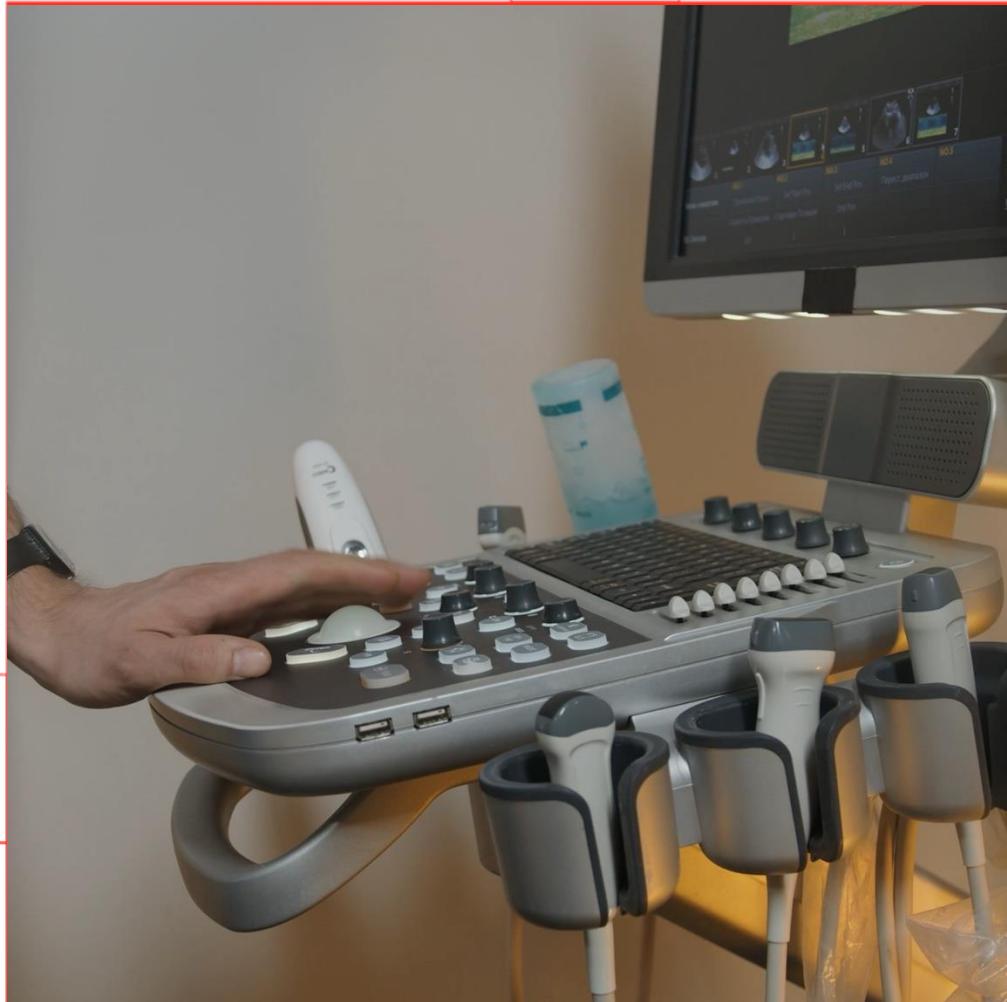




REHABILITATIVE ULTRASOUND IMAGING - RUSI

Is it EBP? When and Why
use it?

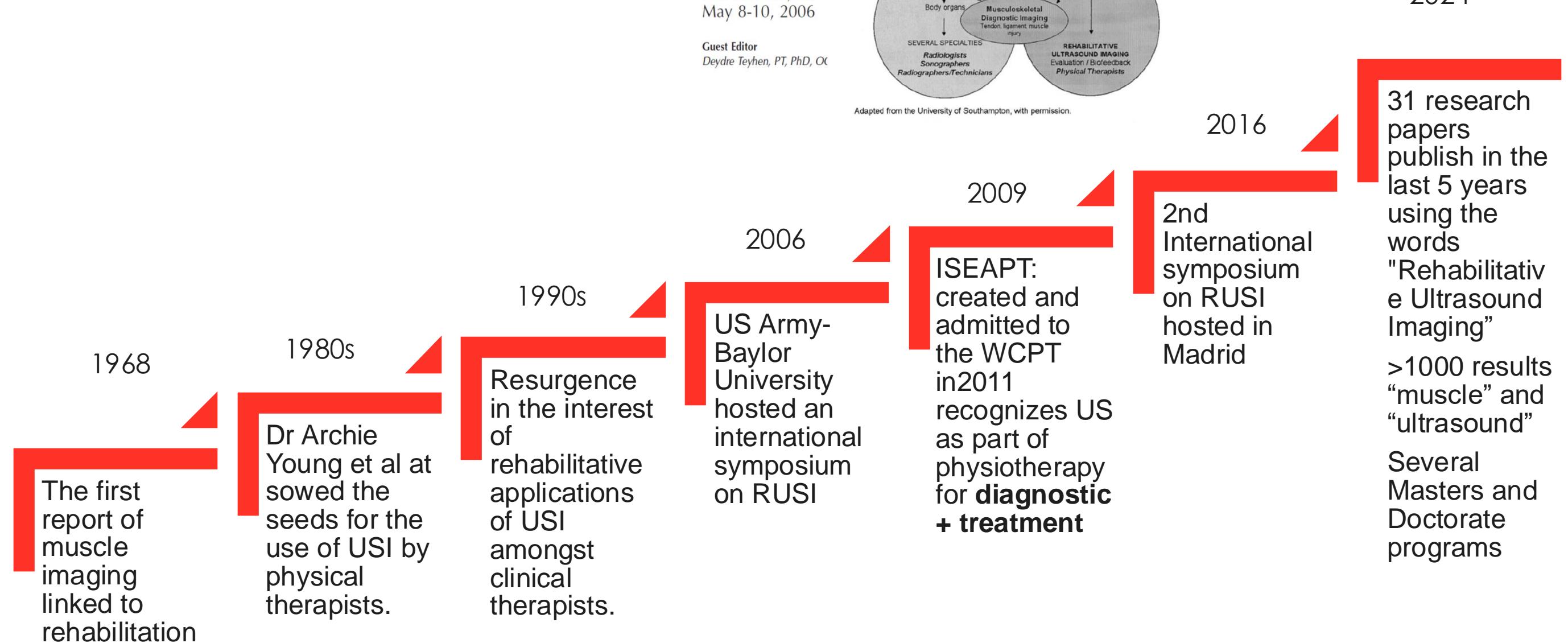
What is it?



The use of US in order to get dynamic or static images of the MSK system.

- Is it a trend?
- Is it legal?
- Is it useful?
- Is it necessary?

When did it Start?



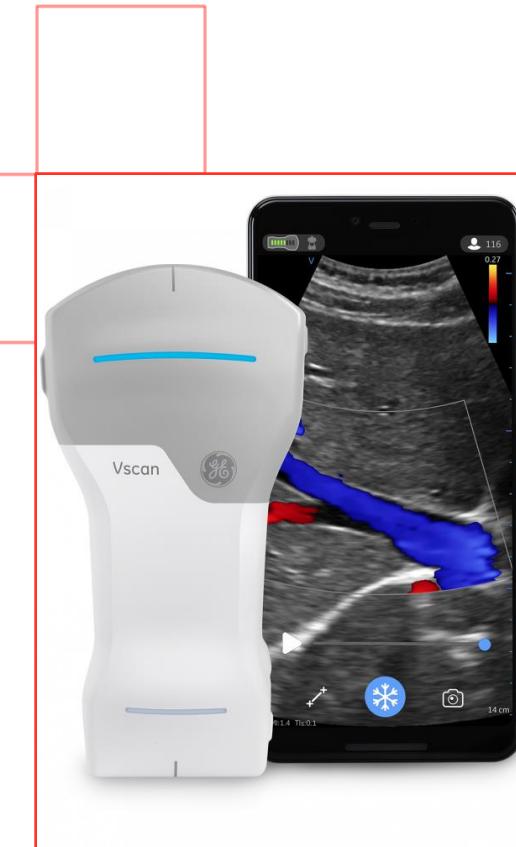
Types of UltraSound



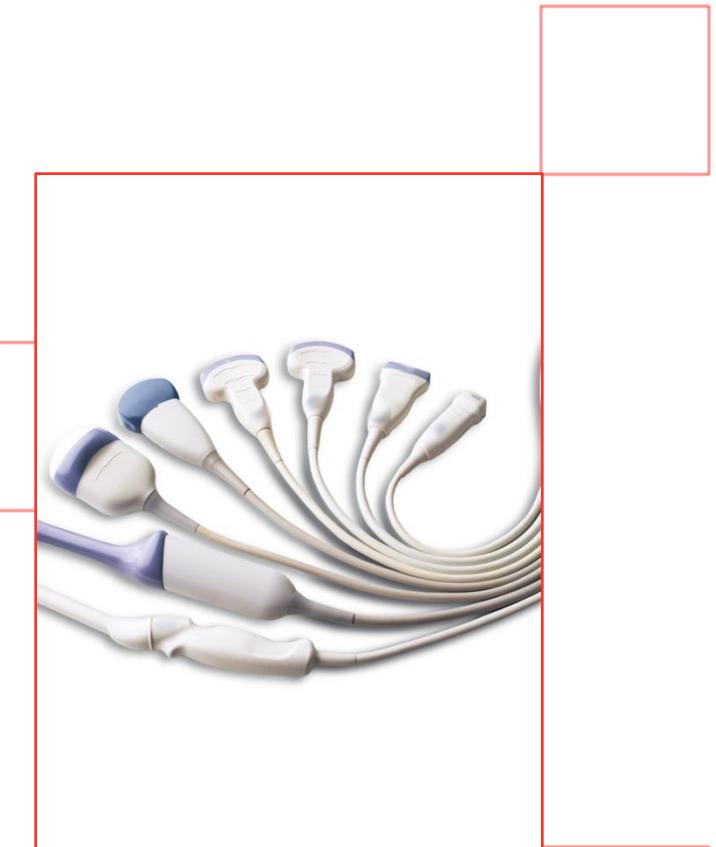
Stationary US



Portable US



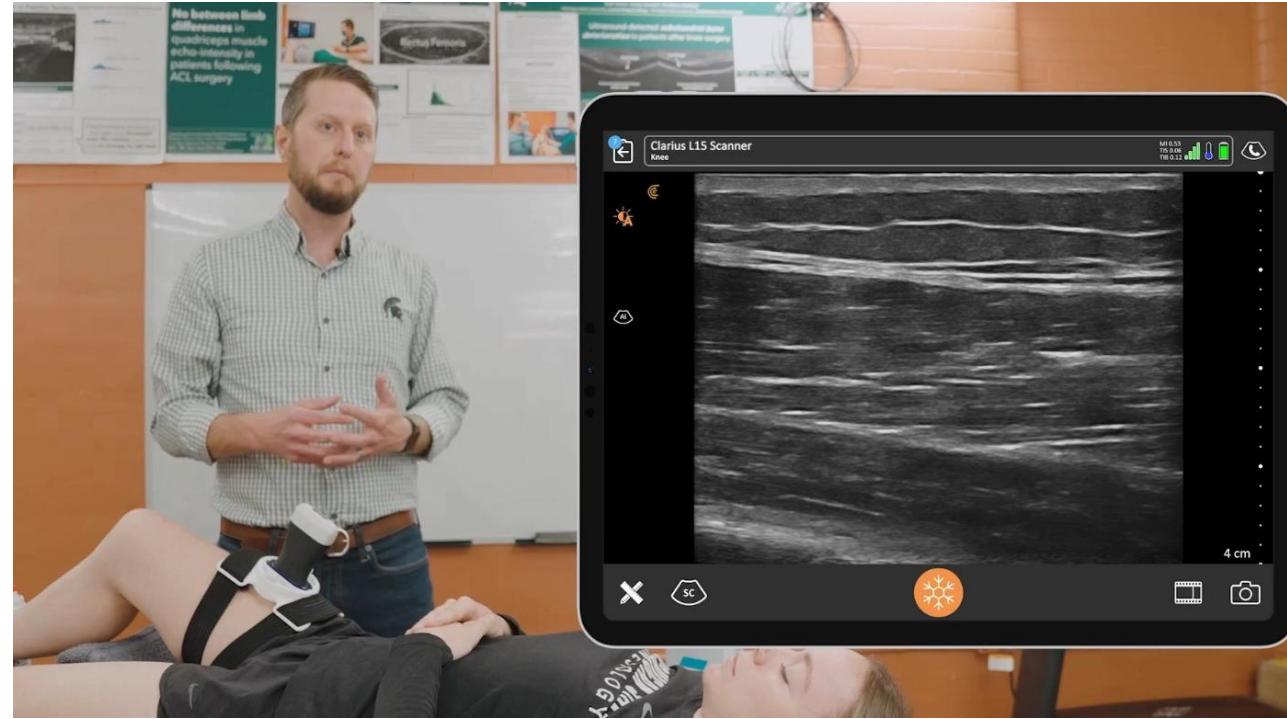
Wireless Us



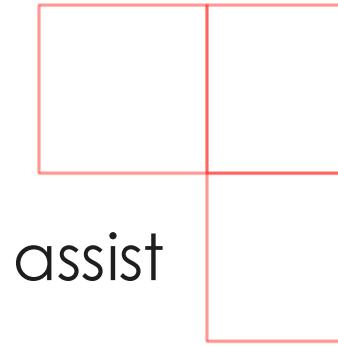
US Probes

Possible Applications

Include (but are not limited to): assist with physical therapy diagnosis, guide treatment procedures and evaluate treatment outcomes.



https://www.youtube.com/watch?v=Xie-jH4G_k



**Invasive
Techniques
Guidance**

Biofeedback

**Follow-up &
Assessment**

Research

Weak Points



Extra Education

Needs further education.
Not taught in Bachelors
Degree



Expensive

Initial Investment is high.
Most US cost > 15000€



Long Learning Curve

Hugely related to
experience
Needs a lot of time to
master

Strong Points



Portable

Easy to transport and use in non hospital/standard spaces.



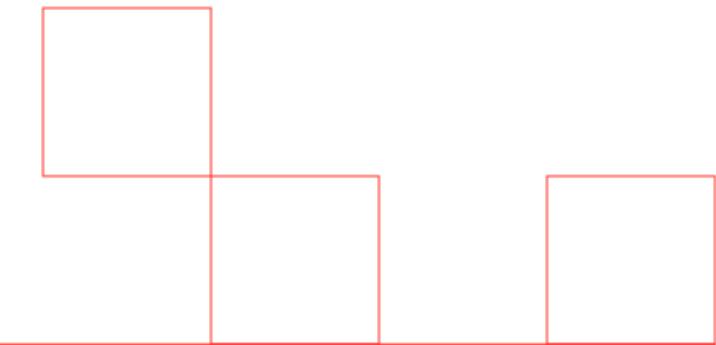
Dynamic

You can see changes and tissue behaviour onsite

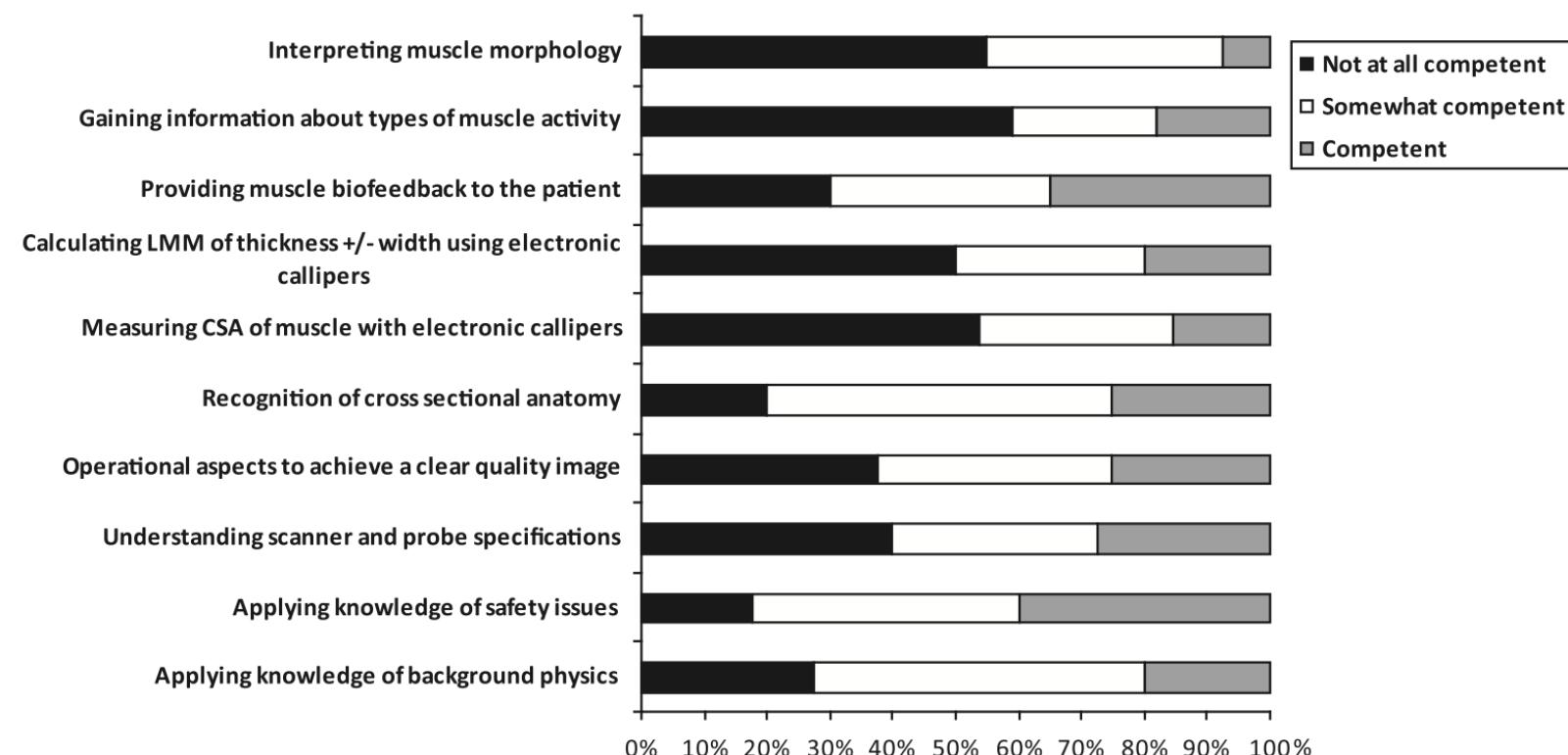
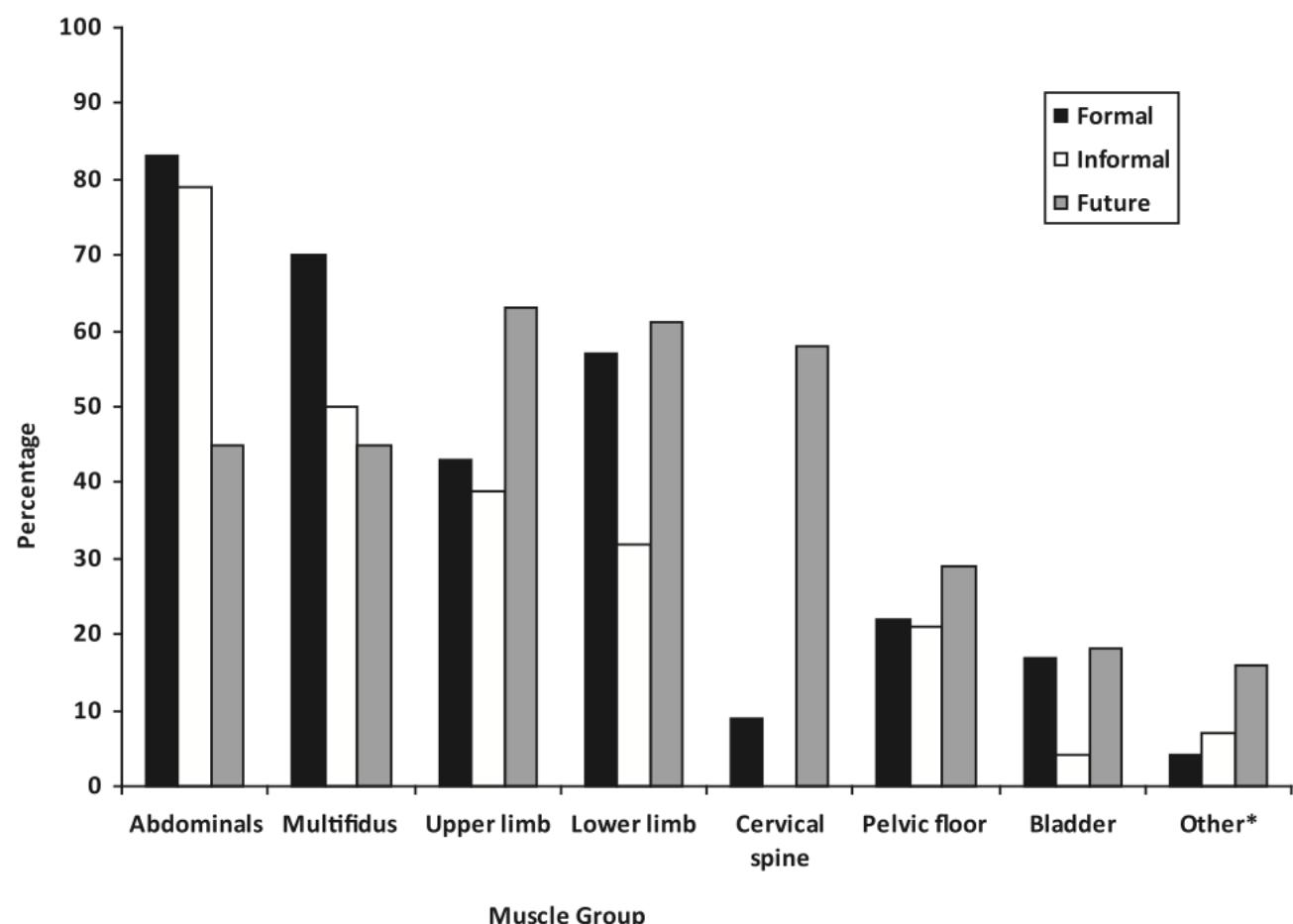


Cost - Efficient

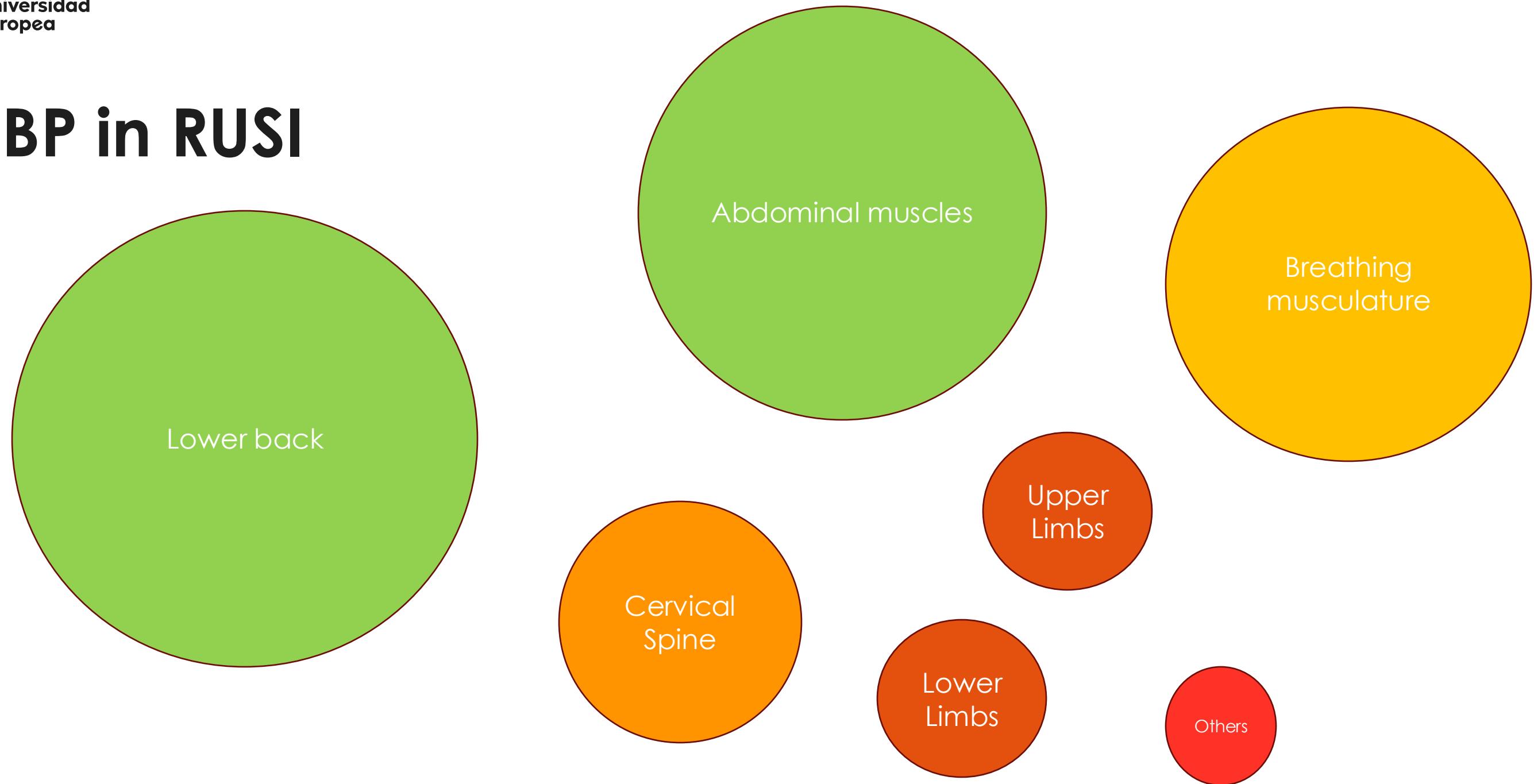
One of the cheapest diagnostic by image there is



C.L. Potter et al. / Manual Therapy 17 (2012) 39–46



EBP in RUSI



In conclusion

RUSI can:

- Provide feedback to both the physical therapist and patient that may help determine which verbal or tactile cues are most effective to facilitate proper performance of therapeutic exercises during the early phase of rehabilitation.
- Assist physical therapists in their decision-making process related to exercise prescription and progression.
- Help determine when specific injuries have been sufficiently addressed to permit the exercise progression necessary to achieve maximal pain-free function

