

Pilates for the Reflexologist

Introductions

- Welcome to your Spine
- Neutral, the Core and Back Pain

Pilates

- The Squeezer Types
- The Practical Exercises

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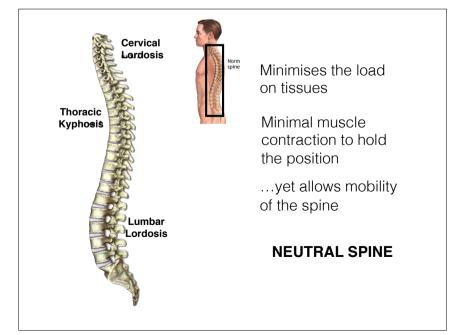
Welcome to your Spine

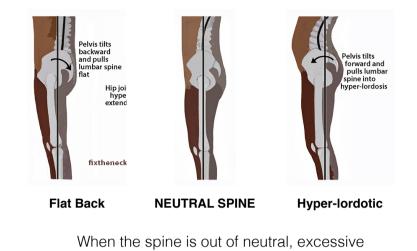
Neutral, the Core and Back Pain

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When the spine is out of neutral, excessive loads on skeletal and soft tissues and reduced range of motion



NEUTRAL SPINE

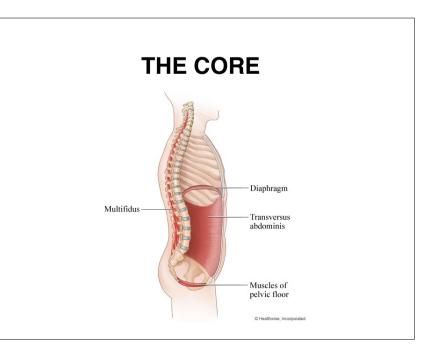
Superficial muscles **move** the pelvis/lumber spine into/ out of neutral

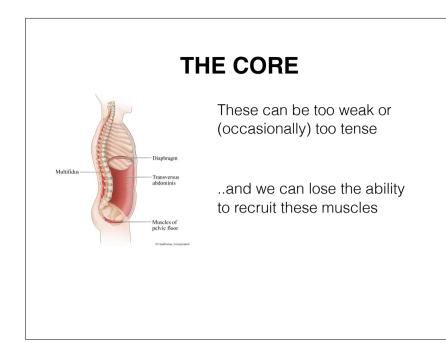
These can be too weak or too tense

..and we can lose the ability to know/feel what neutral is

PROPRIOCEPTION









During functional movements, load on the spine can take it out of neutral spine

...either because the muscles can't hold neutral spine or neurologically we don't tell the muscles to hold neutral spine

We need to engage superficial muscles to achieve neutral spine and then "Engage the Core" to keep neutral spine

Simple model of Back Pain

(What goes wrong?)

CONSEQUENCE	
Spine not achieving neutral position and/or loses mobility	
Cannot get spine into neutral position. Core muscles can't (alone) maintain neutral	
often a combination of the above two	
Recruit superficial muscles instead - they become too tense. Secondary postural problems	
Neutral spine not held during activity	

Simple model of Back Pain



An inability to achieve and maintain neutral spine during load bearing functional activity. Repeated over a long period of time or repeated with heavy loading, results in injury to adjoining soft tissues

Without appropriate correction, the tissues never have an opportunity to recover

Chronic Back Pain

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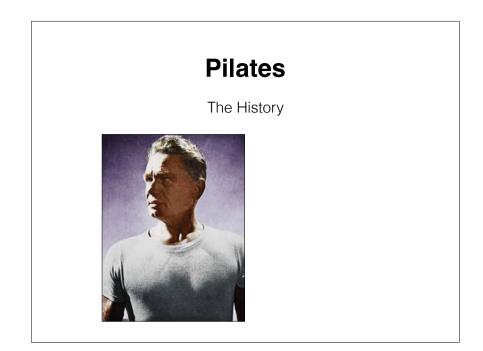
The Practical Exercises

PILATES

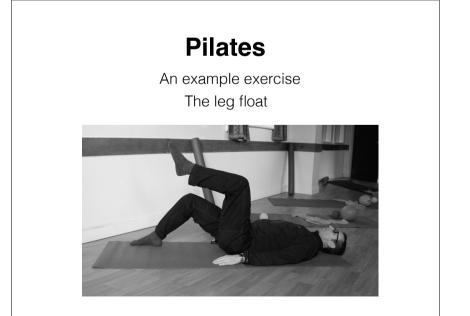
A form of exercise that strengthens the superficial pelvis/back and Core muscles, increases proprioceptive awareness of neutral spine and, through repetition, develops functional recruitment

Pilates is therefore a form of exercise that develops the ability to achieve and maintain neutral spine during activity

...a means of managing **chronic back pain**







Pilates

The fundamentals

Achieve Neutral Spine

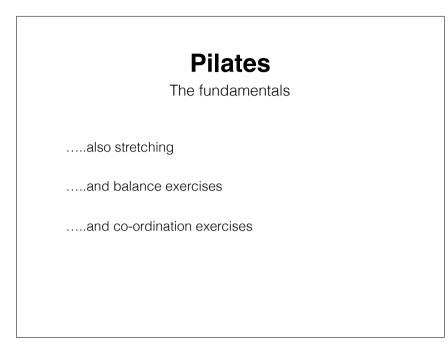
Engage the Core

Start moving the limbs in a way that challenges Neutral Spine

Engage the Core appropriately to maintain Neutral Spine

Increase the challenge on Neutral Spine and learn to increase appropriately the Core engagement

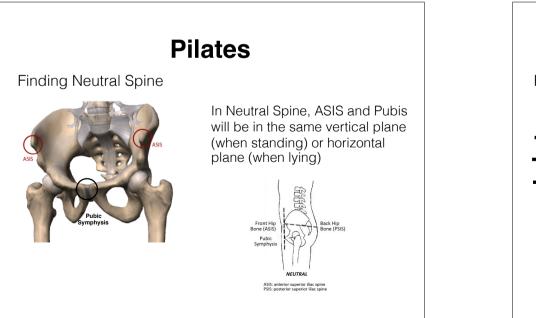
Repeat/practise sufficiently so that the Core response becomes subconscious



Pilates

To get started we need to:

- find Neutral Spine
- find The Core and learn to engage it
- feel what it is like to lose neutral





Pilates

Feeling what it is like to lose neutral



Lower back comes away from the floor as the legs lower

Pilates

Feeling what it is like to lose neutral



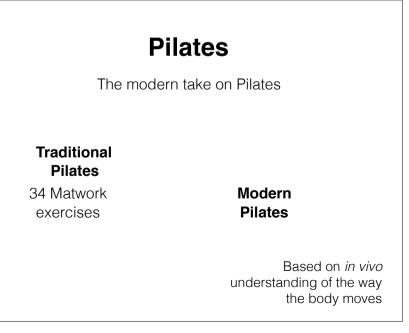
Opposite side of pelvis lifts from the floor as the leg opens out to the side

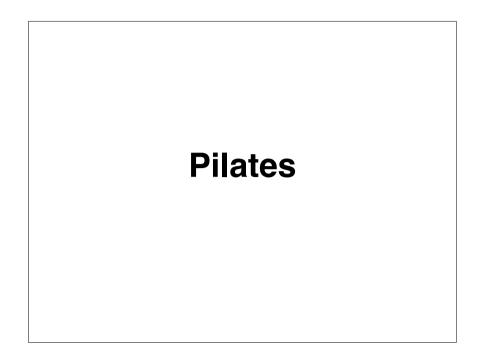
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Pilates exercises challenge neutral to develop strength and awareness of the Core Muscles





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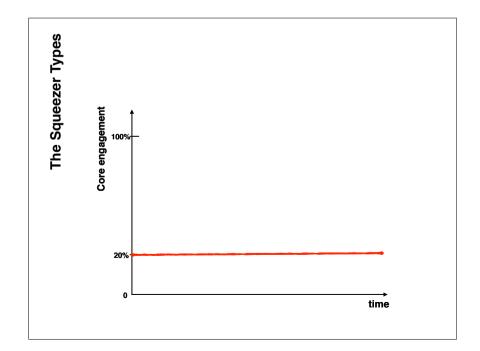
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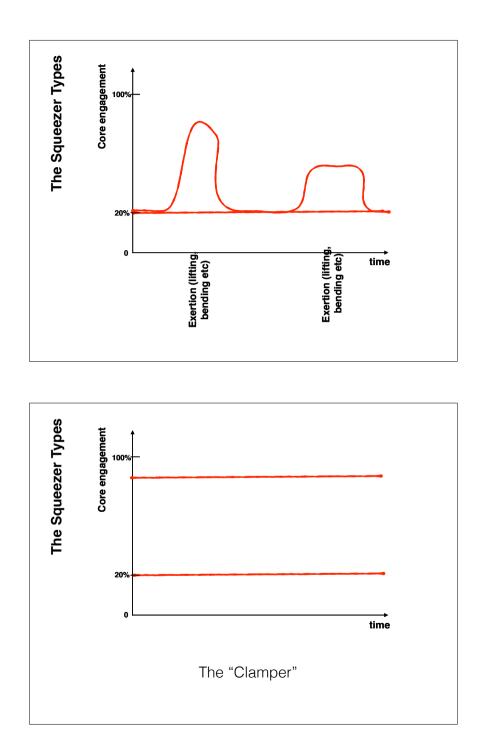
Pilates

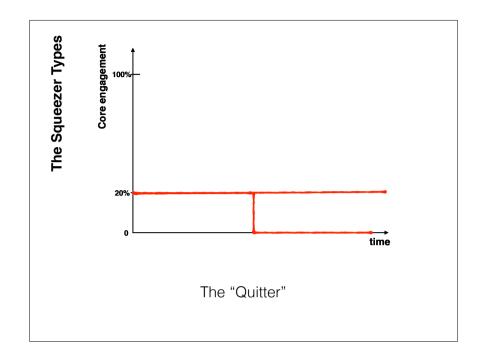
The Squeezer Types

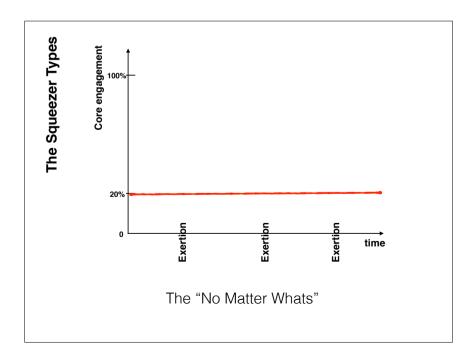
The Practical Exercises

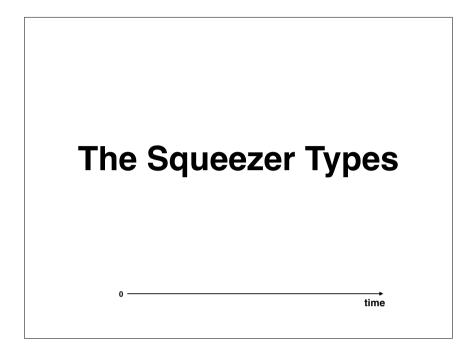
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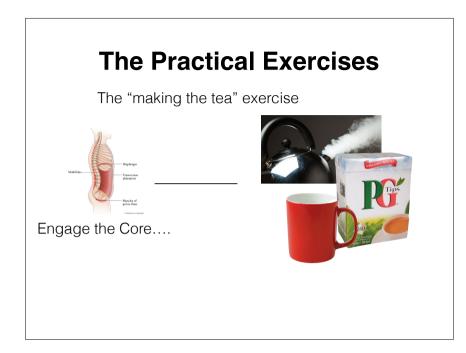
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The "making the tea" exercise

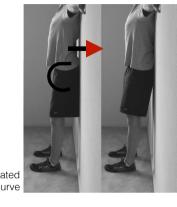
The Pelvic Tilt

The seated back stretches

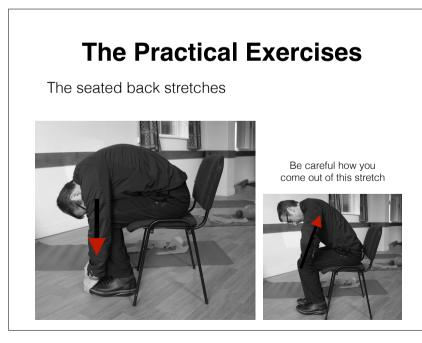


The Practical Exercises

The Pelvic Tilt



Left hand image exaggerated - start in more natural curve



The Practical Exercises

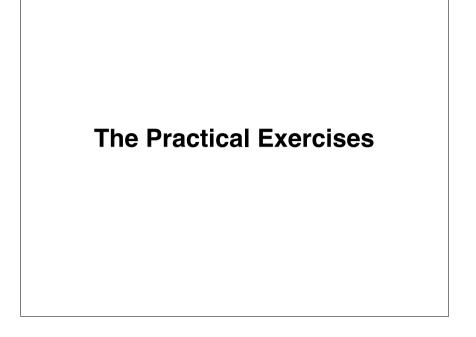
The seated back stretches



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