

Proposal for Presentation:

New Perspectives on Equine Biomechanics: Unveiling Muscle Hubs and the Equine Concertina

World Breeding Federation for Sport Horses, General Assembly, South
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Prepared By:
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ABOUT THE PRESENTER

Beth Shaw is a registered Veterinary Physiotherapist specializing in Equine Massage and Equine Transeva Technique (ETT). She oversees practices in both South Africa and Hong Kong.

- The South African practice services thoroughbred racehorses, polo ponies, and sport horses in dressage, eventing, and showjumping.
- The Hong Kong practice provides services to elite equine athletes of the Hong Kong Jockey Club and European Sport Horses imported for showjumping in China's Chengdu province.



BACKGROUND & DISCOVERIES

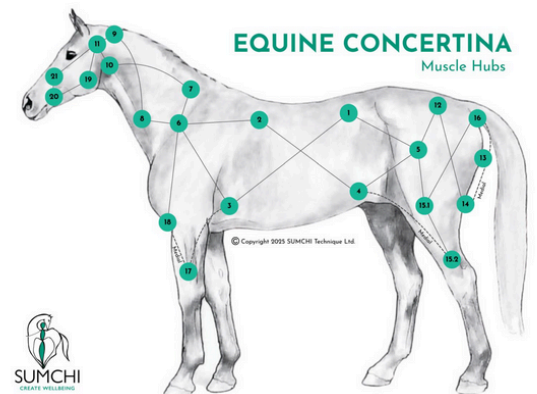
For the past decade, Beth Shaw has collaborated with **BSET Academy** and **Sara Wyche**, retired veterinary surgeon and author of several equine anatomy books. Together, they have studied hairless lesions on horses' skin, leading to the discovery of **Muscle Hubs** and diagonal lines of force transmission within the collagen matrix.

In December 2022, under Sara Wyche's leadership, the diagram known as the **Equine Concertina** was developed. Beth Shaw is honored to present these findings and their implications to members of the World Breeding Federation for Sport Horses.

PRESENTATION TOPICS

This presentation will provide an introduction to:

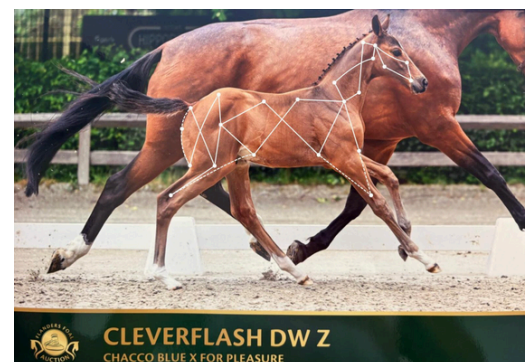
- **Hock Scars** ([Patreon: Identifying Nerve Spots and Hock Scars](#))
- **Nerve Spots**
- **Muscle Hubs and the Equine Concertina**
- **Self-Grooming and Self-Poultice** — aligning evidence with the Concertina to reveal how horses adjust tension within their collagen matrix



Viewing the horse through the lens of the Concertina offers an alternative perspective on excessive tension and uneven force transmission. These insights may aid in identifying stresses in growing foals and developing equine athletes.



Evidence of Self Poultice



FURTHER INSIGHTS

The work will be connected to [Dr. Ian Bidstrup's research](#) on birth trauma and its effects on programming the foal's nervous system. Practical skills will be shared for observing foals through the prism of the Concertina, helping foster a collagen matrix with balanced integrity.

LIVE DEMONSTRATIONS

Beth will be joined by colleagues from South Africa to demonstrate:

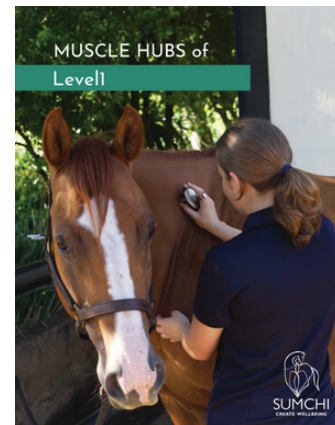
- Equine Transeva Technique
- SUMCHI Technique

These demonstrations will highlight how Muscle Hubs support the structural integrity of a developing equine athlete's collagen matrix.

RESOURCES & CLOSING

Supporting materials will be available, including the newest book Muscle Hubs of Level I and additional printed handouts.

If time permits, recent insights into **spinal hyperextension in young equine athletes** will also be shared, with an invitation for deeper discussion after the scheduled presentation.



Beth Shaw looks forward to presenting these discoveries, engaging with Federation members, and contributing to ongoing conversations on equine biomechanics.