WORKSHOP

Can ultrasound scans improve osteopaths' palpation skill?

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Osteopaths often struggle to explain their actions, their theories or even their perceptions of tissue. This has consequences on their ability to connect to other practitioners, to students and even between themselves [1].

Ultrasound (US) scanning is known to be an efficient tool in teaching anatomy and its use is increasing worldwide [2].

New ways of teaching palpation such as the Virtual Haptic Back (VHB) would appear to aid osteopathic students at the start of their learning experience, to evaluate their manual pressure [3]. It may also be beneficial to include medical imaging such as an US scan to help them localise structures beneath the skin.

US Scanning can help localise one perceived structure, measure an asymmetry, see a mechanic impairment, and objectivise some structural changes in tissues. These points are directly linked to the TART model [4].

This workshop aims to show how US scans can help teachers and students interactions using a new pedagogical tool and a how to bring pragmatic thinking to help inter and intra professional communication.

WORKSHOP SEQUENCE

Ultrasound physics and image construction reminder: 15'

Ultrasound capacity in tissular diagnosis: 20'

Demonstration and hands on practice in

- anatomical localisation: 15'
- physiological understanding: 15'
- tissular perceptions and reality: 15'

Feedbacks: 10'

REF

[1] Jorge E. Esteves, Charles Spence, Developing competence in diagnostic palpation: Perspectives from neuroscience and education, International Journal of Osteopathic Medicine, Volume 17, Issue 1, 2014, Pages 52-60, ISSN 1746-0689.

[2] So S, Patel RM, Orebaugh SL. Ultrasound imaging in medical student education: Impact on learning anatomy and physical diagnosis. Anat Sci Educ. 2017 Mar;10(2):176-189. doi: 10.1002/ase.1630. Epub 2016 Jun 10. PMID: 27286419.

[3] Howell JN, Conatser RR, Williams RL 2nd, Burns JM, Eland DC. Palpatory diagnosis training on the virtual haptic back: performance improvement and user evaluations. J Am Osteopath Assoc. 2008 Jan;108(1):29-36. PMID: 18258699.

[4] Somatic Dysfunction Mechanisms ; Michael A. Seffinger DO, FAAFP, Raymond J. Hruby DO, FAAO, MS, in Evidence-Based Manual Medicine, 2007