



Palpatory anatomy is fundamental in osteopathy training programs.

Palpatory anatomy is a core subject in the curriculum of educational institutions and it qualifies the professionals to diagnosis and adequately apply Osteopathic Manipulative Treatment (OMT).

It is extremely important to demonstrate the reliability of palpatory references.

A strong academic background in the field will provide the professional with proper and necessary skills to implement treatment.







2

Pilot Study

It is a pilot study whose main objective was to demonstrate that it is possible to use anatomic lead markers on patients undergoing previously scheduled medical CT scans without any detrimental effects to the patients in relation to an increase in radiation or any compromise in the final evaluation of the given exam, and, at the same time verify the accuracy of landmarks palpated.

THE USE OF IMAGES OF PALPATORY ANATOMY REFERENCE POINTS TO PROVIDE MANUAL THERAPY GUIDANCE

Most of the published articles referring to palpatory anatomy have been produced based on simple x-ray.

In Brazil, the ethics committee for research production with humans does not allow the use of radiological methods, which emit radiation, for the sole purpose of verifying a hypothesis.











Materials and Methods

- Two osteopaths set markers on a 21 year old patient on the points indicated in the books which correspond to the following anatomic structures:
- 1 L4's spinous process;
- 2 L 5's spinous process;
- 3 postero superior iliac spine PSIS, left and right;
- 4 postero inferior iliac spine PIIS, left and right;
- 5 quadratus lumborum muscle, left and right;
- 6 piriformis muscle, left and right;















9

The data were analyzed by a radiologist and confirmed by two other radiologists in regard to correlation between palpated points and CT images

Correspondence between palpation and CT images was confirmed in the following points: 1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 22 and 23.

Points 4, 7, 16 and 21 did not correspond to the CT images.

On point 20, the marker 's adhesive tape detached from the patient's skin.



Results

- 14 proximal sternocleidomastoid muscle, left and right;
- 15 digastric muscle, left and right;
- 16 medial pterygoid muscle, left and right;
- 17 masseter muscle, left and right;
- 18 temporal muscle, left and right;
- 19 zygomaticus muscle, left and right;
- 20 C2's spinous process, left and right;
- 21 mastoid process, left and right;
- 22 sternal head of the sternocleidomastoid muscle, left and right;
- 23 clavicular head of the sternocleidomastoid muscle, left and right.



Results

- We believe the error in the marking of point 21 (mastoid process) was due to the difficulty in setting the marker because of the presence of hair.
- We had difficulty in marking point 20 (C2) as we needed to place the markers on the lateral aspect of the spinous process and used a considerable amount of adhesive tape, which due to the smallness of the structure overlapped and became loose.











