Dr Johan J De Cock, PhD, MSc, DO.

# Learning palpation

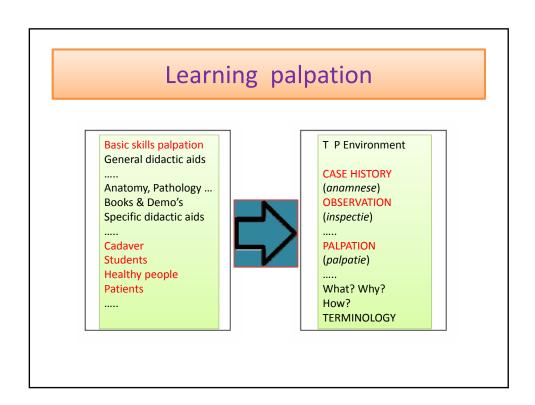
Introductory exercises & incorrect engrams in education

Potsdam / September 2011

The Art and Science of Palpation

Conference 'Teaching palpation'
29-30 Sept 2011 Potsdam (Germany)
Osteopathic European Academic Network
(OSEAN)

- What means 'palpation'?
- Lat. 'palpare' (> 'palpatio') = stroke (E.), streicheln (D.), palperen (NI) ...
- 'Palpare' > Spanish, Italian, Roemenian ...
- Palpation is the process of examining by means of touch.
- The act of feeling with the hand ... beyond the various modalities of touch (Viola Frymann 2005).
- A child learns to sit, to stay, to run ... to speak, to read, to write ... palpation must also be learned ...



Exploring through **touch** is an important **skill** for an osteopath. To improve this skill, we recommend:

- 1) to devote more time teaching palpation exercises with the use of simple didactic tools;
- 2) to abolish palpation for anatomical symmetry, since it induces false engrams in students;
- 3) to review palpation of the physiological movements of the skull bones.

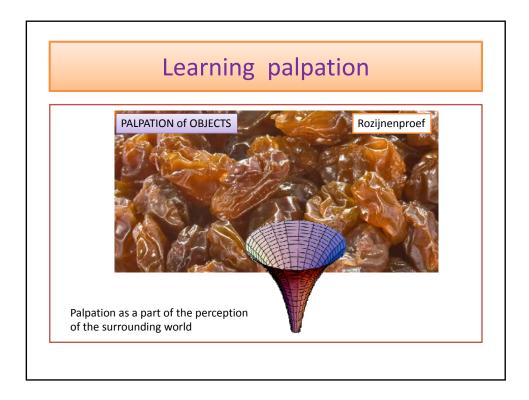
#### We support our visions with:

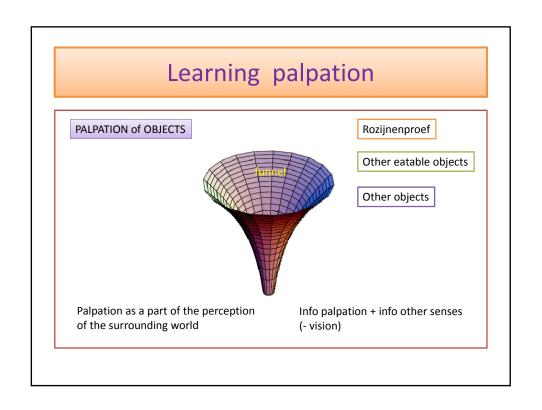
- practical examples
- logical evidence
- results of experimental research.

#### Learning palpation

Exploring through **touch** is an important **skill** for an osteopath. To improve this skill, we recommend:

1) to devote more time teaching palpation exercises with the use of simple didactic tools





PALPATION of OBJECTS





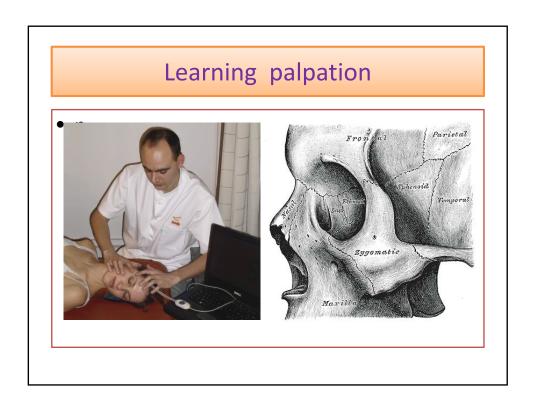
## Learning palpation

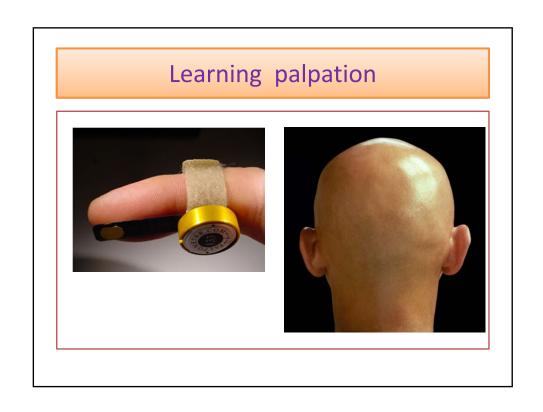
- Palpation of a wire under a paper
- Palpation of a human hair ...
- Palpation of a small picture, drawn on paper ...

PALPATION of small OBJECTS

- Palpation of a resistance
- Pulling a cloth/canvas on which a weight was placed ('towel pull exercise').
- See 'dural traction techniques'

- Tension and pull
- Quantitative
  - Bathroom scales
  - Digital kitchen scales
  - Pressure sensors (palpometers)

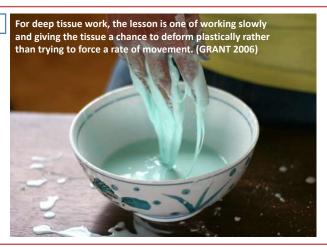




- Tension and pull
- Quantitative
- Qualitative
  - Balloon pressure test
  - Speed and force of pressure: 'oobleck'



OOBLECK



- Learning to appreciate **flexibility** 
  - Death material > sticks of dried wood
  - Living material > a tree
    - OUR BODY > skull ...
    - ....



- Palpation on each other & on healthy subjects
  - Basics
  - Skin: pressure, t°, vibration, humidity
    - Our hands, materials ...
  - Locomotor system
  - ....
- Palpation on patients

Wartenberg wheel for testing skin sensitivity and pain perception



## Learning palpation

#### Palpation

- > anatomical localisation;
- > aid in diagnosis;
- > aid in therapy

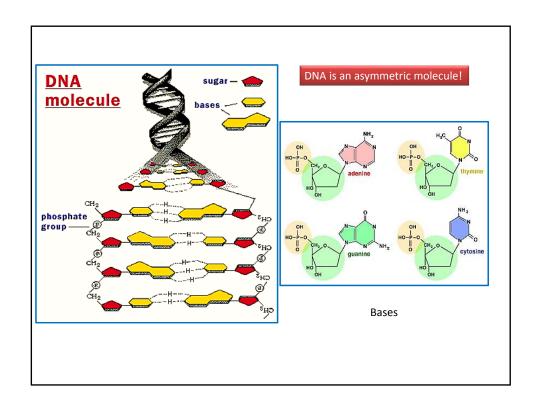


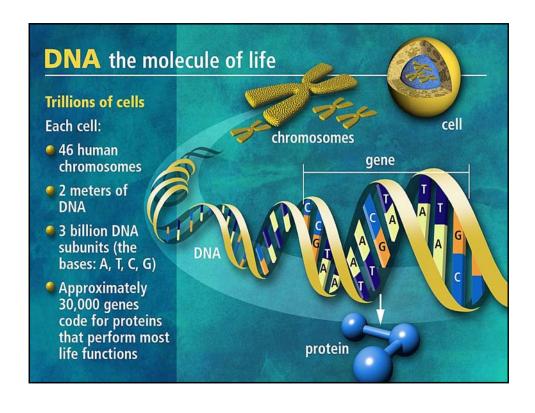
END PART 1

Exploring through **touch** is an important **skill** for an osteopath. To improve this skill, we recommend:

- 1) to devote more time teaching palpation exercises with the use of simple didactic tools;
- 2) to abolish palpation for anatomical symmetry, since it induces false engrams in students

- We gaan NIET op zoek naar anatomische symmetrie.
- Individuele (voorkeurs-)houdingen (posture) en (voorkeurs-)bewegingen (gait and simple movements) zijn eveneens asymmetrisch.
- Symmetrie is een uitzondering en géén regel!





- Asymmetry > SKULL
- Sarac- Hadzihalilović A, Dilberović F. Study on skull asymmetry.
   Bosn J Basic Med Sci. 4 (3), 2004 Jul; 40-46.
- McManus I.C. The distribution of skull asymmetry in man.
   Annals of Human Biology. 9 (2), 1982; 167-170.
- Trenouth MJ. Asymmetry of the human skull during fetal growth. <u>Anat Rec</u>. 211 (2), 1985 Feb; 205-212.
- ..
- Simple clinical observations, measurements ...
- Take a standardized picture of someone's head >/2 ...

- Asymmetry > BODY > posture/motion
- Examples

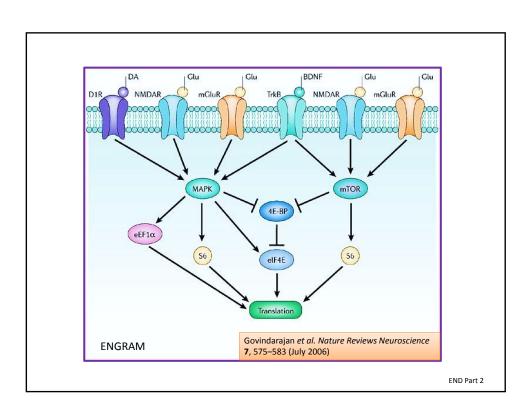






- Armen kruisen, bidgreep, bal weggooien ...
- Bal wegschoppen, baantje glijden, spitten ...
- Moments of inertia (STEINER)

- ENGRAM: Psychology Motion sciences ...
- A stored impression or stimulus impression (Richard SEMON)
- De Cock (1996 p. 61-62, adapted): "Actieve en passieve oefeningen veranderen sensomotorische en motosensorische reacties, wijzigen het bewegingsbeeld (engram) in onze hersenen wat via een cybernetisch feedbacksysteem geëcforiseerd wordt (tot uiting komt) in meer economische, adequate, functionele bewegingsuitvoeringen".
- Degenhardt (2009, p. 76): 'preprogrammed patterns of action -or engrams-'



Exploring through **touch** is an important **skill** for an osteopath. To improve this skill, we recommend:

- 1) to devote more time teaching palpation exercises with the use of simple didactic tools;
- 2) to abolish palpation for anatomical symmetry, since it induces false engrams in students;
- 3) to review palpation of the physiological movements of the skull bones.

### Learning palpation

Review palpation of the physiological movements of the skull bones.

FACTS and ...

**FICTION** 

- DISCUSSION
- <a href="http://pipl.com/directory/name/Frymann/Viola">http://pipl.com/directory/name/Frymann/Viola</a>
- <a href="http://www.massagetoday.com/mpacms/mt/article.ph">http://www.massagetoday.com/mpacms/mt/article.ph</a>
  <a href="p?id=13415">p?id=13415</a>
- "The approach to the study of palpation always has been too vague, too indefinite ..." (Fryette, 1954).









