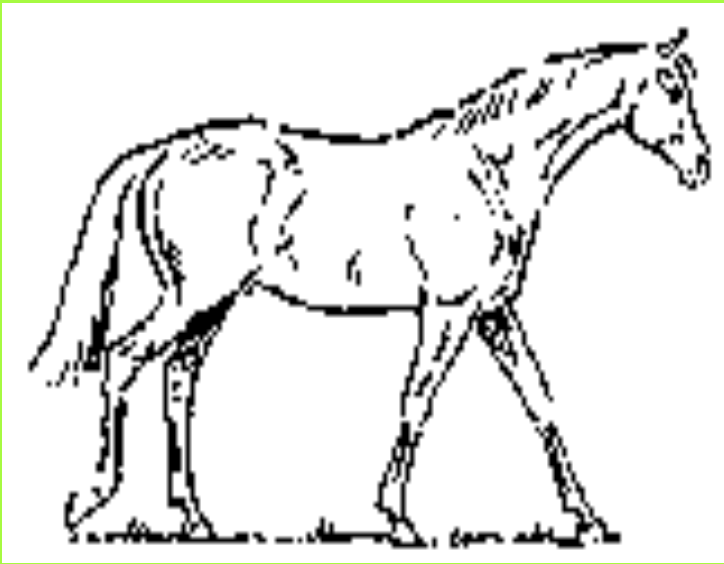


**Most common
osteopathic lesions of
cervical column and
front limb in show
jumping horses**





MOVEMENT

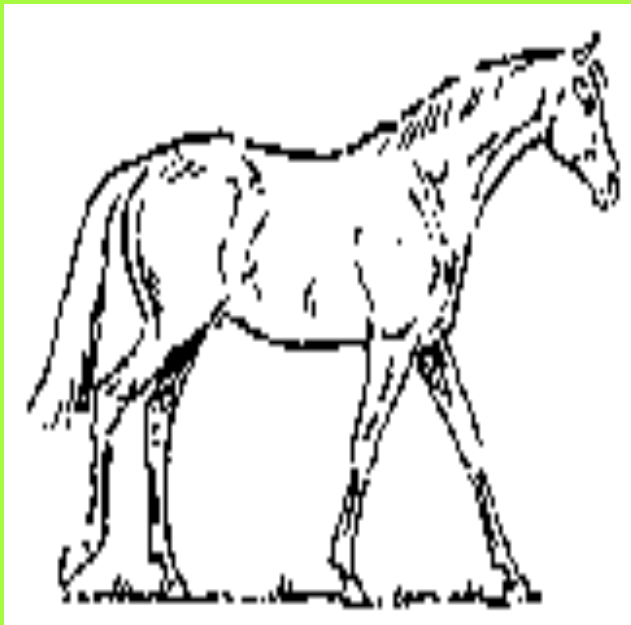
way and target in sport activities

daily training and races

rest

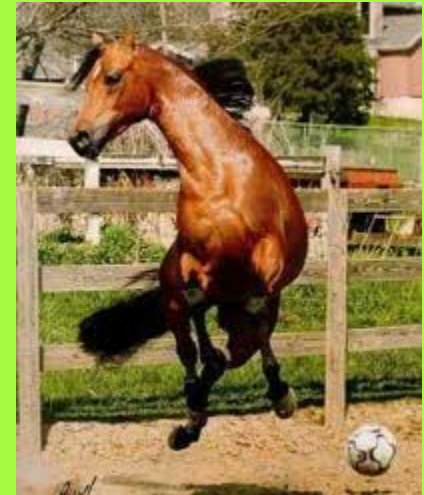
good condition

injuries and poor condition



MOVEMENT

...”group of coordinated gestures and actions that makes a body able to interact with the environment” ...



Environment interaction



Signals

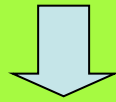


Sensorial flow

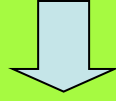


Body receptors

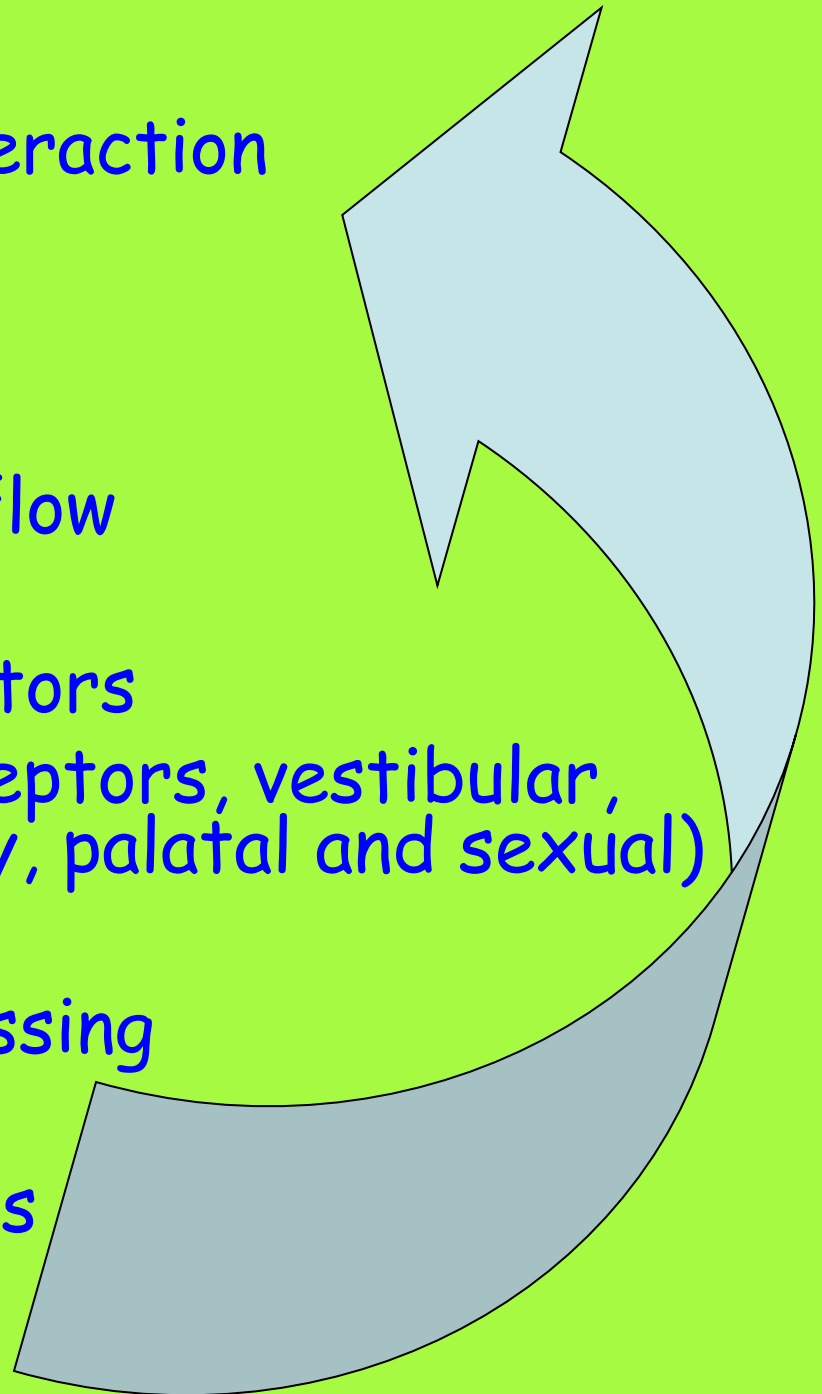
(exteroceptors, proprioceptors, vestibular, visual, auditory, olfactory, palatal and sexual)



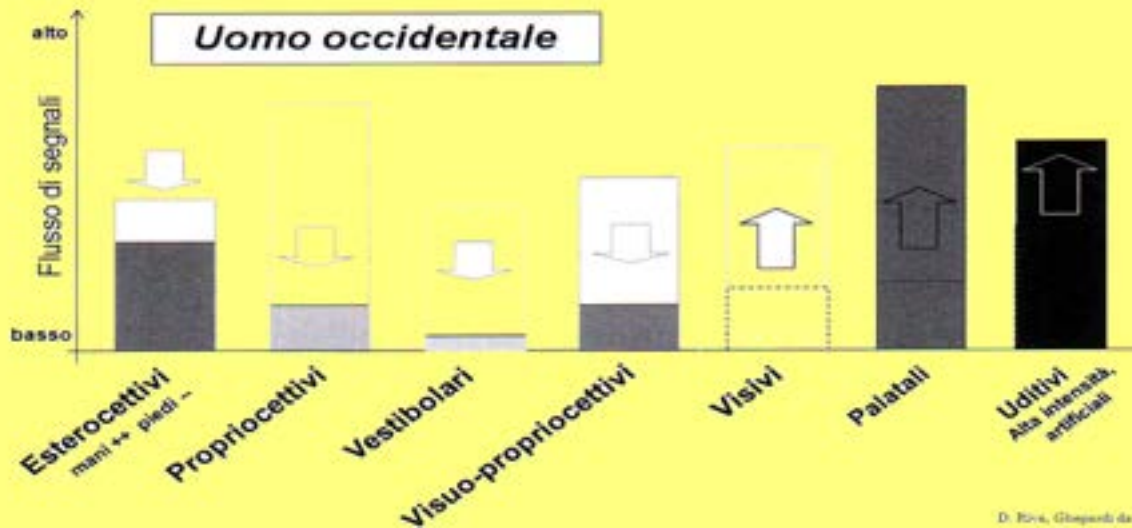
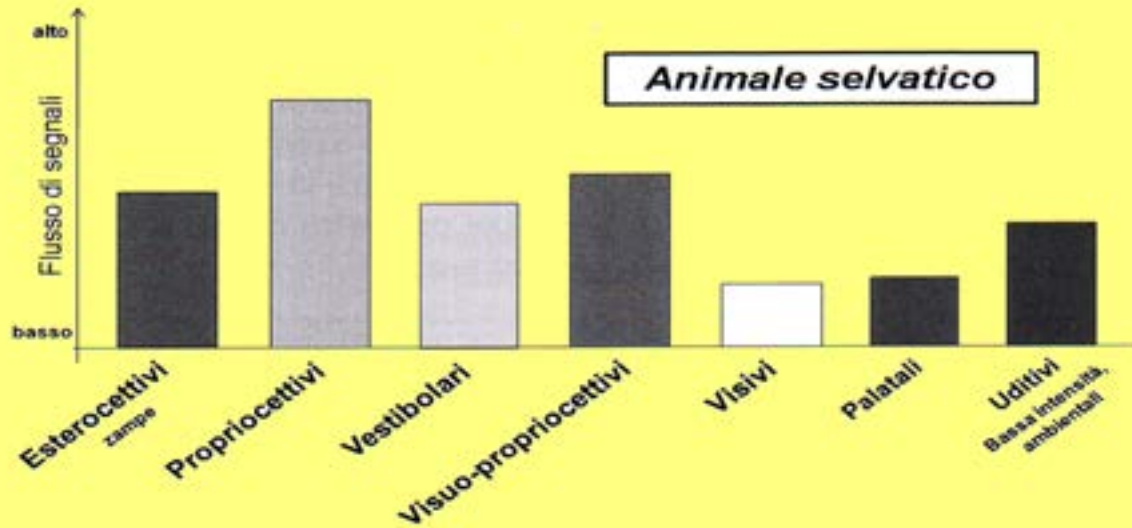
Brain processing



Reactions



SENSORIAL FLOW



- Wild animal

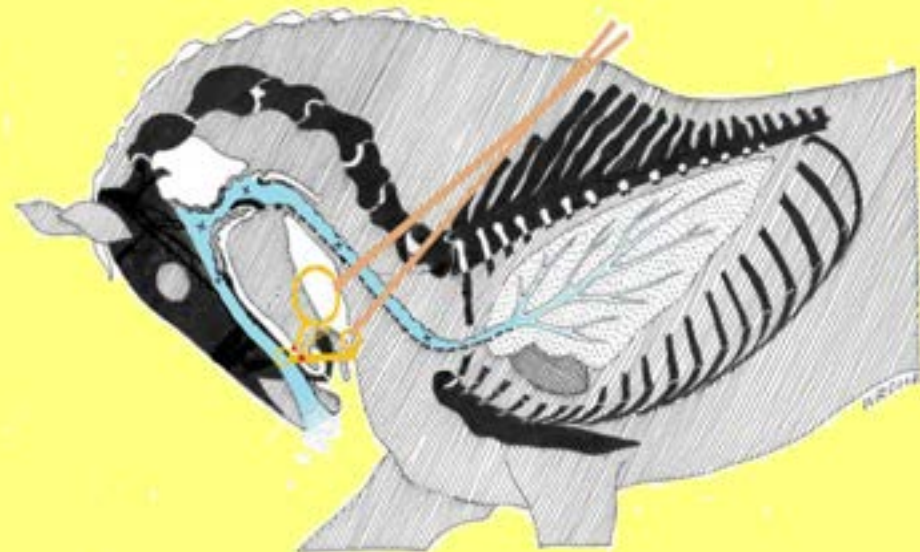
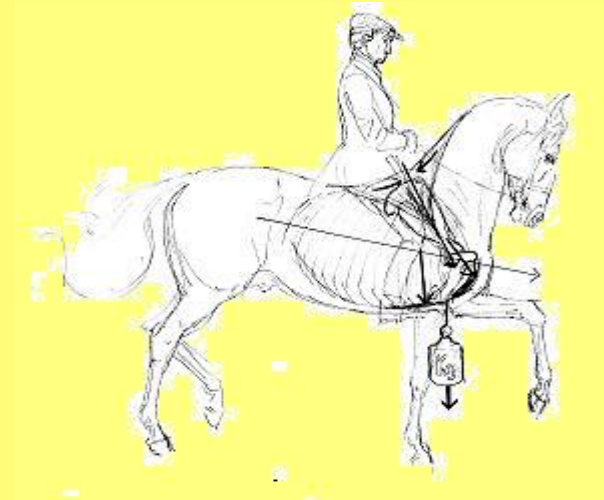


- Sport horse



Movement HACCP

- Rider
- Saddle
- Bite
- Shoes
- Management
- Ground «-»
- Aptitude
- Psico-physical condition
- Age

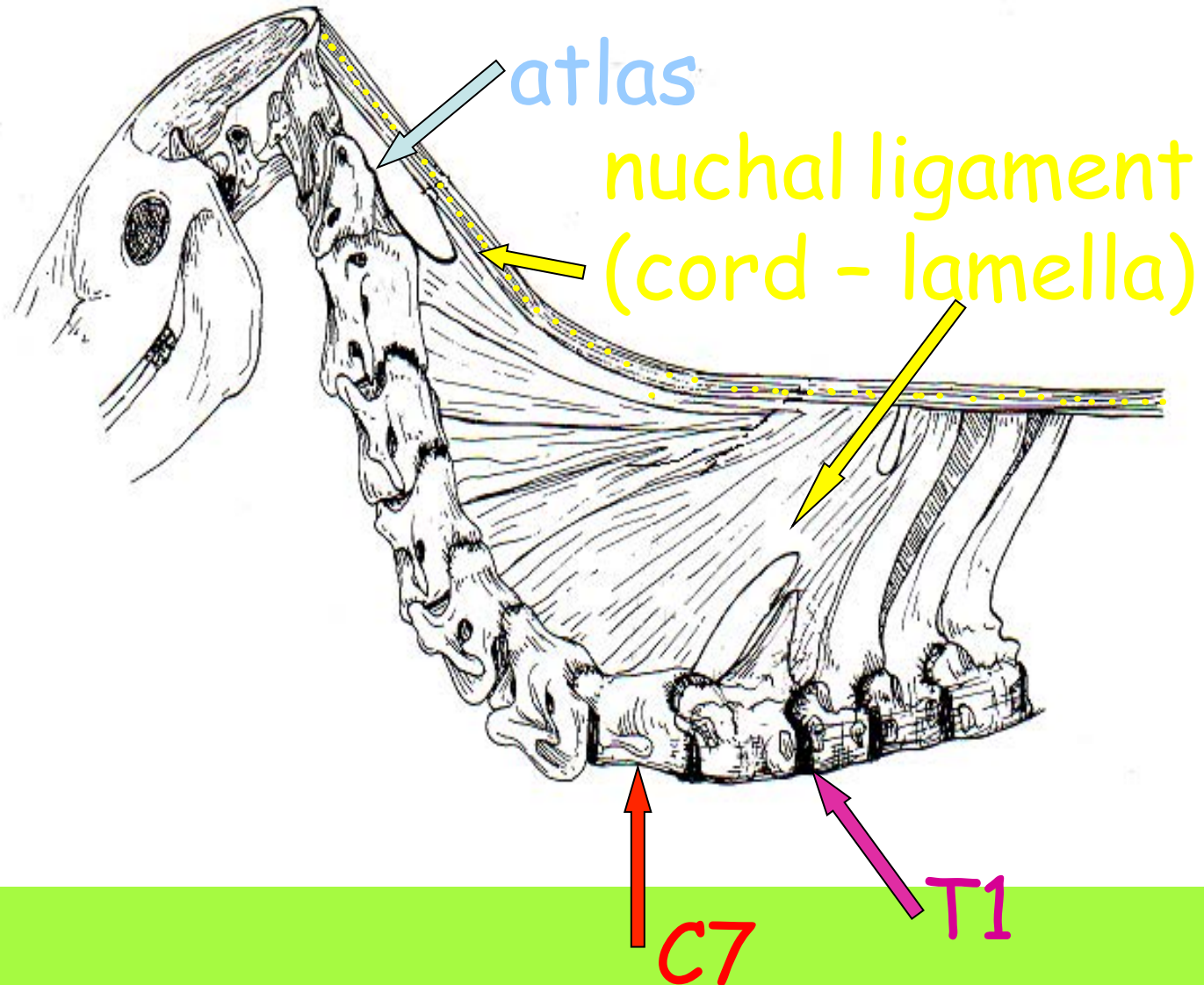




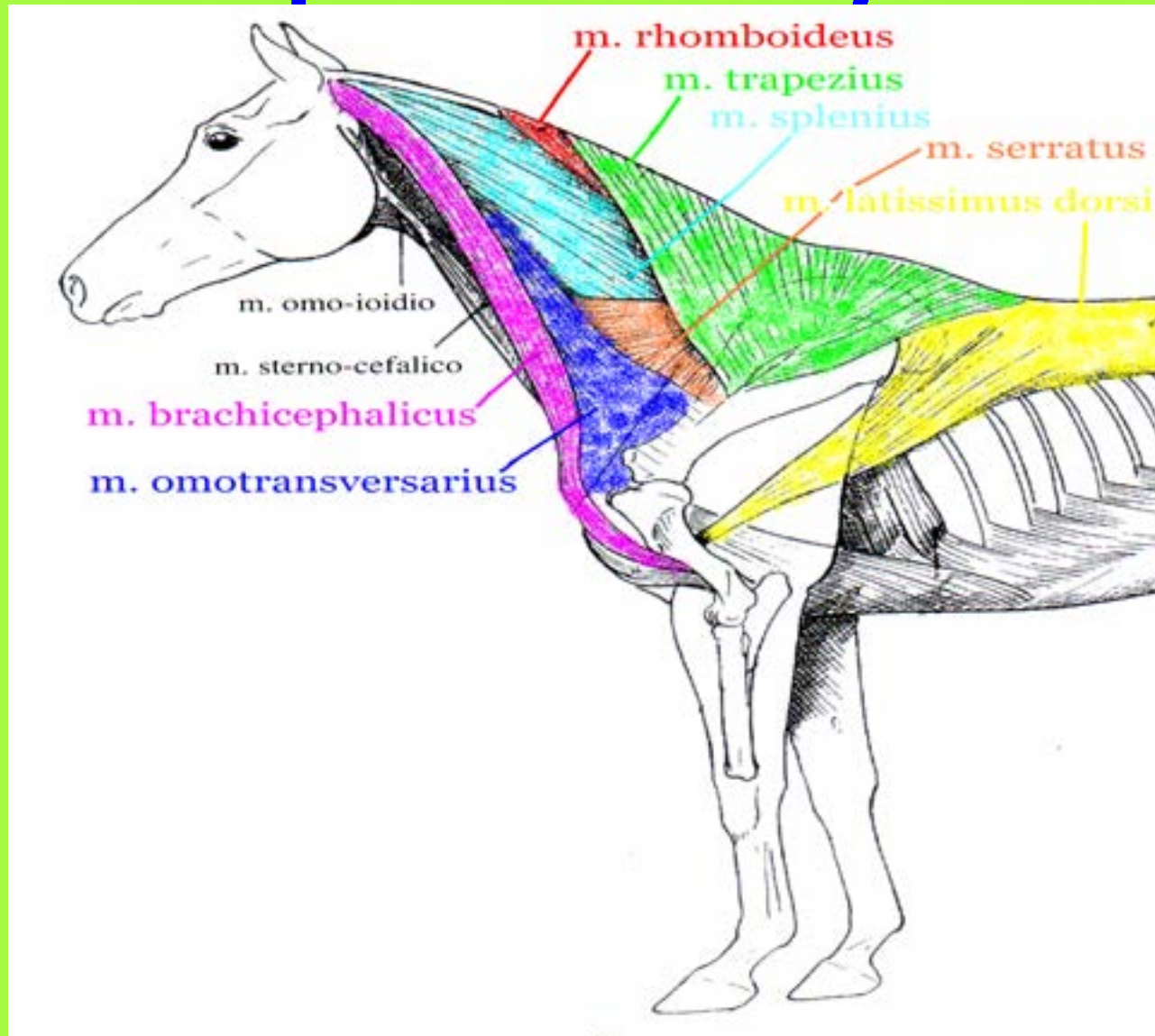
How does the neck move?



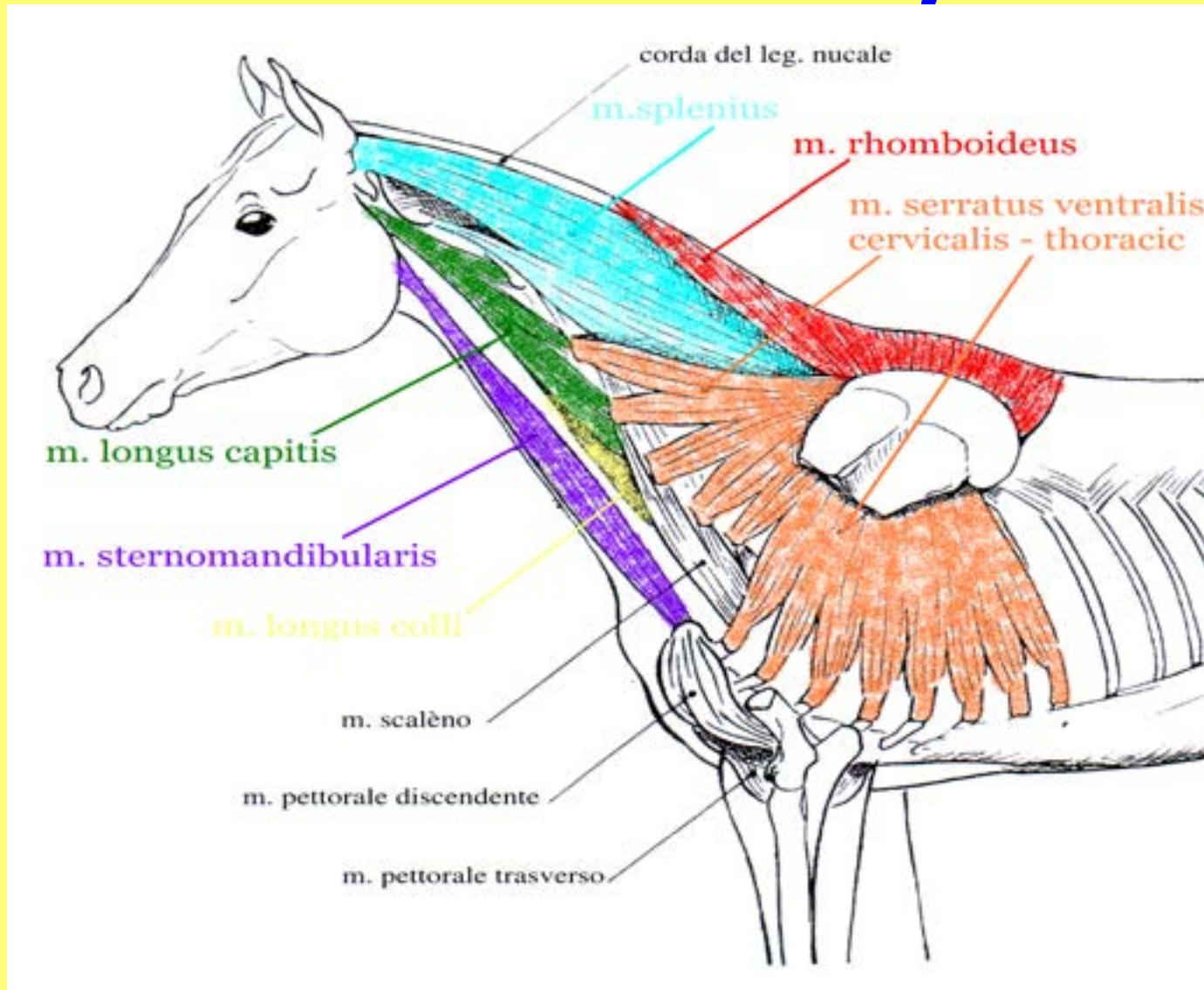
cervical column



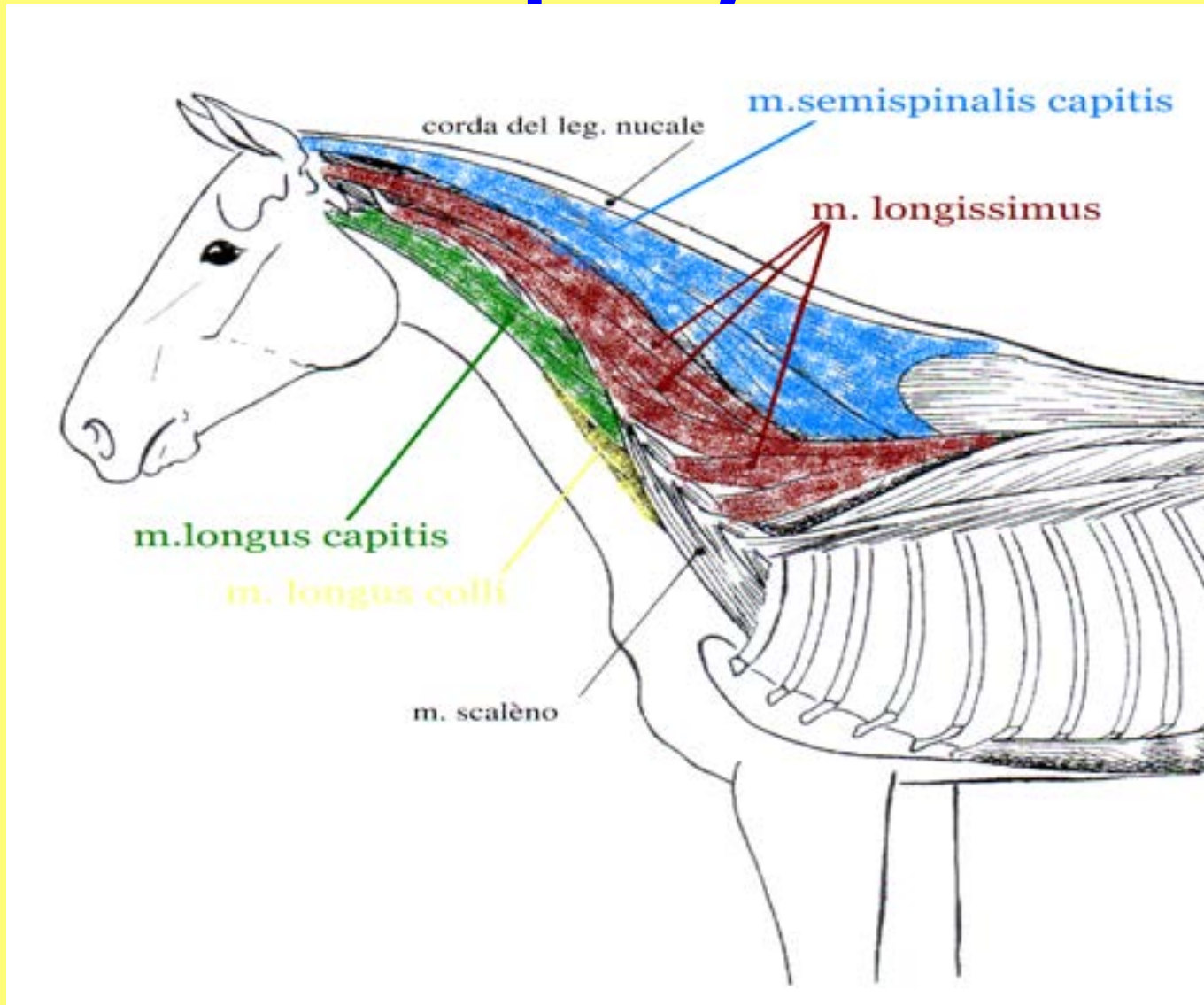
superficial layer



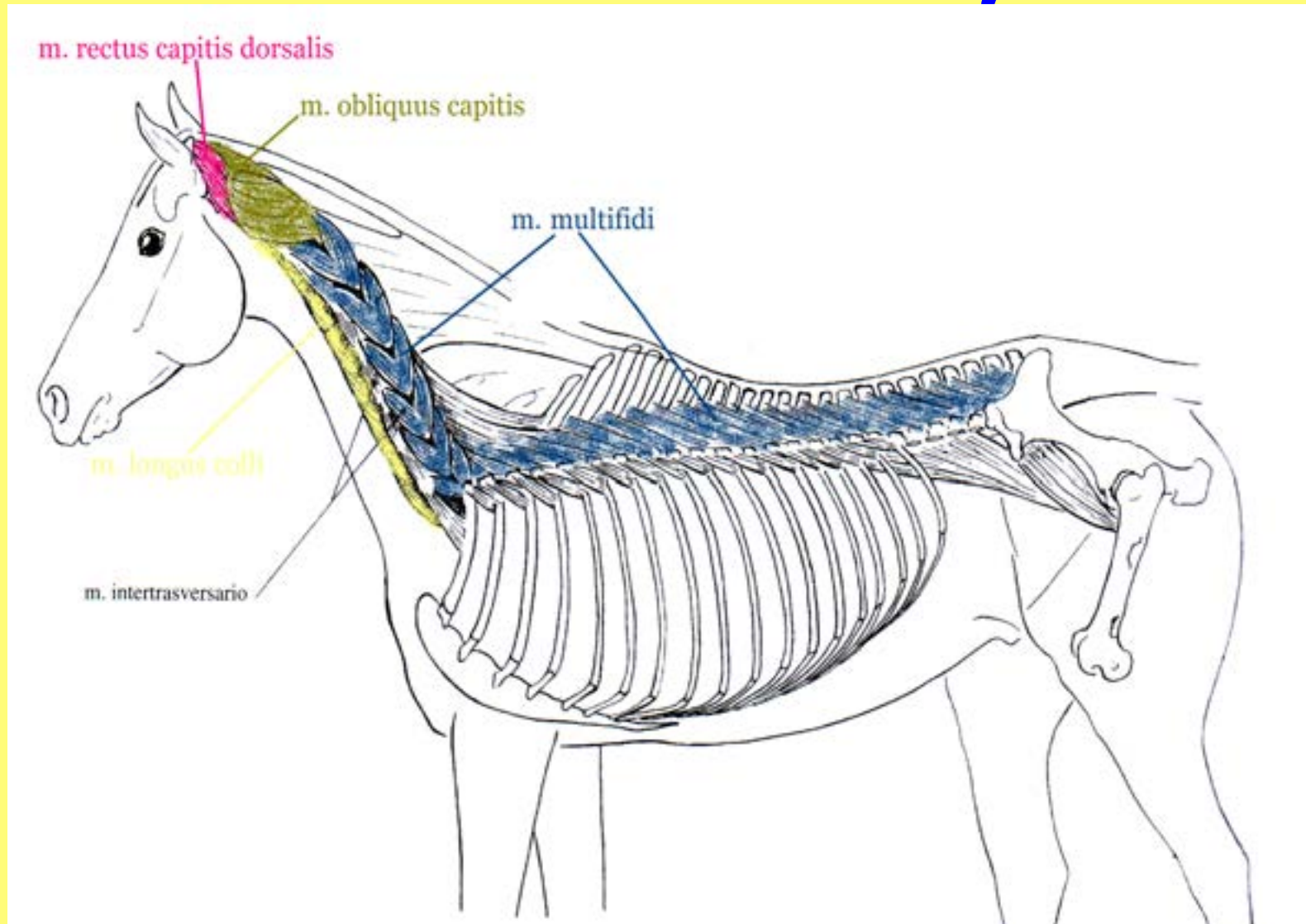
intermediate layer



deep layer



intervertebral layer





C7

comments

Observed alterations on the sinovials of the caudal cervical tract do not enter in an absolutely normal radiographic range.

However, in a 10 years hold horse, could be not clinically relevant a remodelling or enlargement of the joint sinovials of this tract.

These alterations could represent the expression of a paraphysiological adaptative remodelling.

A scanner or scintigraphic examination.....

comments

At the sixth neck vertebra, the front aspect of each transverse process is irregular.

There is also an increased uptake of radioisotope in the vertebral bodies of the rear thoracic spine.

However, these findings are probably within the normal range since they occur in many normal riding horses...



- C5 - C6
- C6 - C7
- C7 - T1
- Biomechanical effects
- -front limb
- -m. longissimus
- Breathing effects



C6

- Occipital - C1
- C2 - C3





other remedies

suggestions

- Joint injections
- Mesotherapy
- Fans, muscle relaxant
- Acupuncture
- Physio-devices: tecar, ultrasound, cryo...

- Proper work and exercise
- Stretching

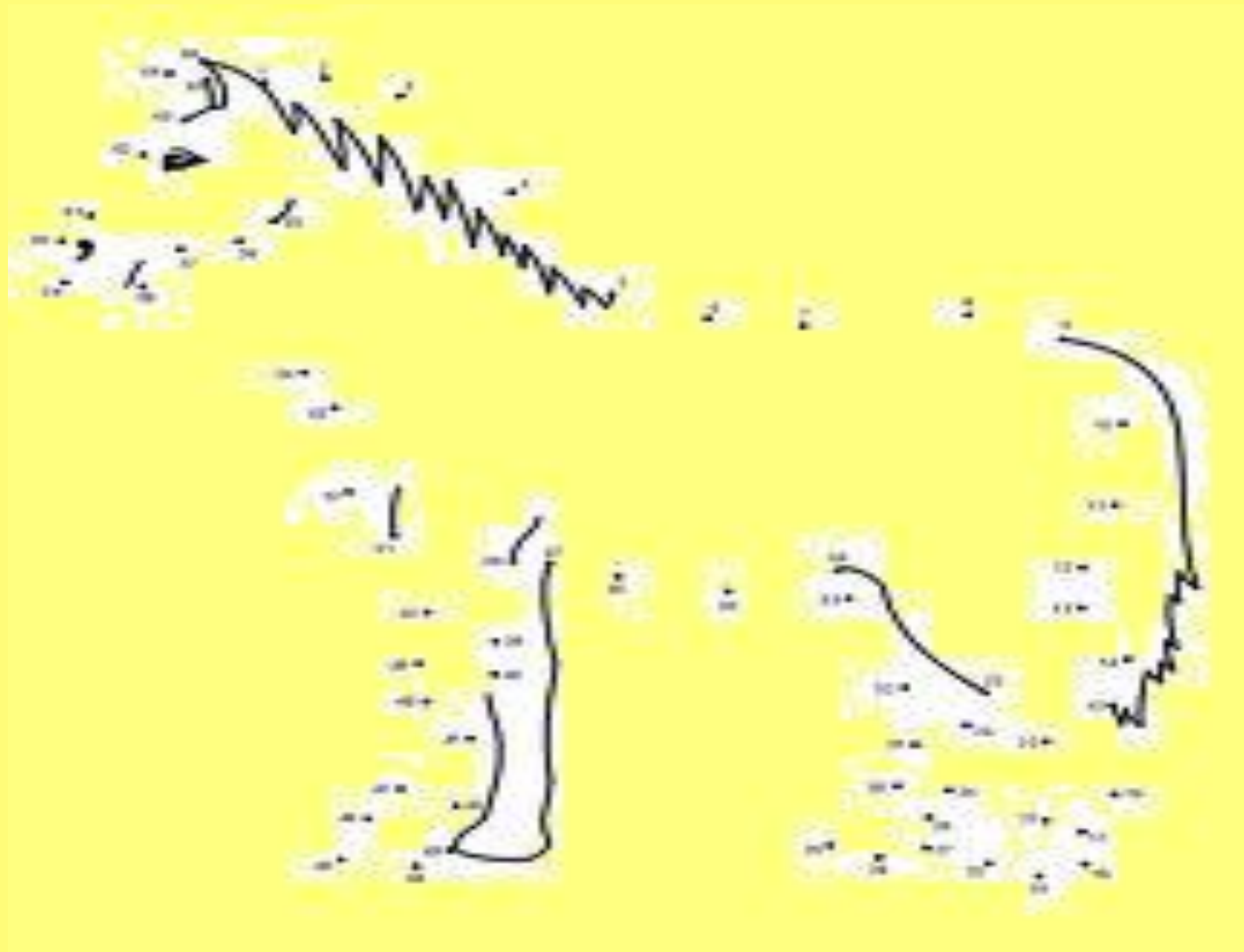


conclusions

- Chronical functional lesions (biomechanical key-points)
- Postural changings
- High % painful muscles
- Lameness role
- Behavioural effects
- HACCP ?
- Professional expertise and competence
- Necessity to put functional lesions into context
- Educational and preventing role
- Team-work



future?





BEFORE GIVE A BIG YAWN THANK YOU FOR YOUR ATTENTION