INTRODUCTION into TOPOGRAPHIC ANATOMY of Head & Neck

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Term ANATOMY from Greek $anatom\acute{e} = ,,a$ cutting up"

SYSTEMATIC ANATOMY

- As a science deals with morphology and structures of the human body.
- Its sound knowledge forms a basis for understanding of other subdivisions of the anatomy and is required to all clinical medical specialties.

Division of anatomy - criteriums

▶ The main criterium by the systematic anatomy is **functional point of view** i. e. systems (e.g. skeletal and muscular systems, cardiovascular system, digestive system, respiratory system, central and peripheral nervous system, urogenital system, integumentary system with skin and epidermal derivates etc.).

Other subdivisions of anatomy:

- ► Macroscopic (or gross anat.) and Microscopic (close to histology),
- ▶ Developmental (experimental, close to embryology),
- ► Antropological (description and measurments on larger groups of humans),
- ▶ anatomy of the External forms (for painters and sculptors).
- ► Comparative (between humans and animals),
- ▶ ▶ Normal and Pathological anat. (changes associated with diseases).

Topographical anatomy

Generally the subjects are various **specific regions** of the human body with all structures included there **regardless of their function**

- i. e. regional anatomy of:
- e.g. thorax, abdomen, limbs...

$$\longrightarrow\longrightarrow\longrightarrow$$
 H+N.

Topographical anatomy of Head and Neck

Usually a course of the description is

- from the surface

- to the deepier layers.

RULES IN TOPOGRAPHIC ANATOMY

1/ Importance

2/ No separation

3/ Variations

4/ Terminology

Rules in topograph. anat. 1/ IMPORTANCE

= What is less important (e. g. regarding life, function) is more superficially located

Arteries are more deeply than the veins

 Truncs of nerves more deeply than the small nerve branches...

Rules in topograph. anat. 2/ NO SEPARATION

= Many structues have always close relatioship

 The vessels are usually accompanied with nerves (neurovascular bundle)

 Blood vessels (aa., vv.) and lymphatic vessels pass thorugh the body together

Rules in topograph. anat. 3/ VARIATIONS

Systematic anatomy has large degree of variations

from 50 % to 99 % by various regions

(especially under some pathological conditions)

Rules in topograph. anat. 4/ TERMINOLOGY

= The Latine terms are precise and avoid use of unnecessary words.

"You will start to build your medical vocabulary."