



Creation of Educational Video-Clips for Human Anatomy

Jaroslav MAJERNÍK, Darina KLUCHOVÁ, Janka VECANOVÁ

MEFANET 2013

26. – 27. 11. 2013, Brno

Realized with the support of KEGA 005UPJS-4/2012 and KEGA 004UK-4/2011.

**THE THINGS ARE BETTER REMEMBERED
WHEN SEEN THAN ONLY READ ABOUT.**



Human anatomy

Goals

- ✿ to have educational materials prepared according to the needs and requirements of our teachers
- ✿ to make education/study more illustrative
- ✿ to help students get a clear idea of studied topic



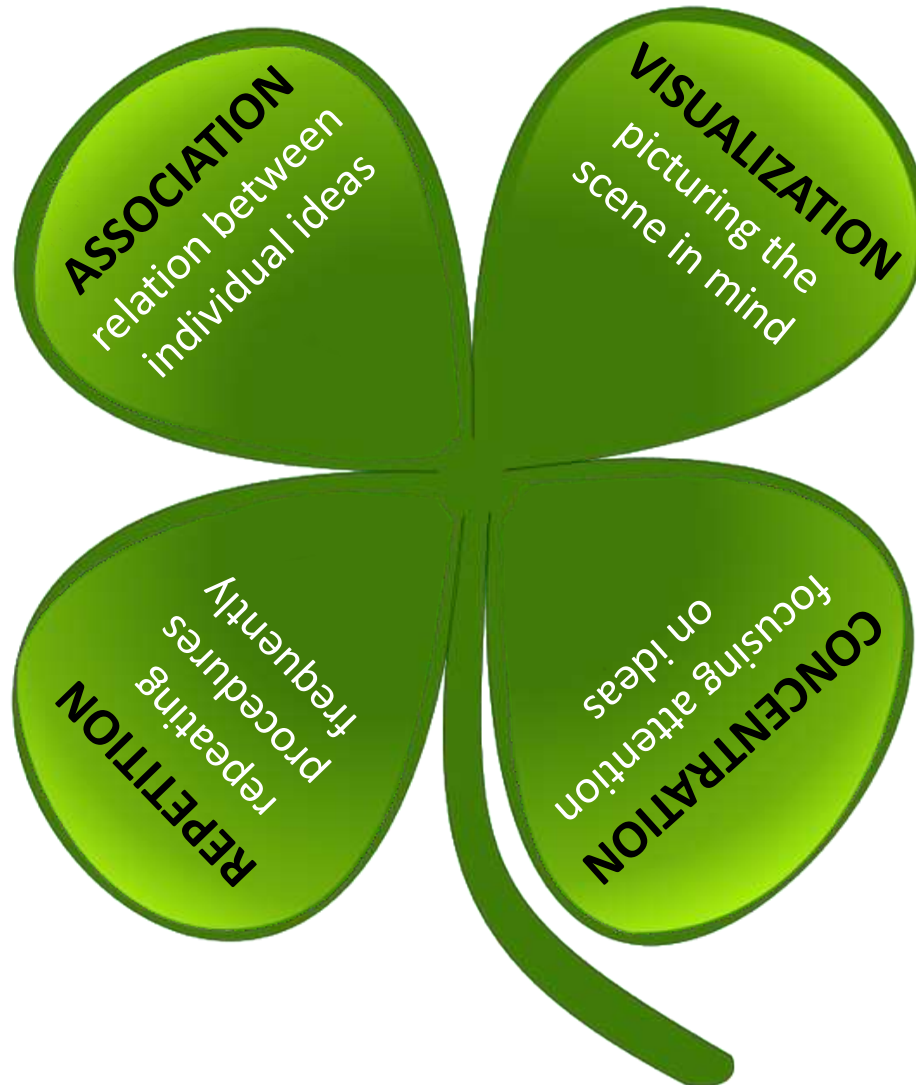
Expectations

- ✿ **increase interest of students in presented topics**
- ✿ **associate new audio-visual materials with traditional education**
- ✿ **offer suitable materials for home/self study**
- ✿ **stimulate visual memory**
- ✿ **readier students**

Knowledge of anatomy has become increasingly important, not only to understand images produced by imaging techniques, but also to understand the pathway for targeting therapy to a specific site.

Remembering

- ✿ processes used to increase the ability to remember ideas



Video

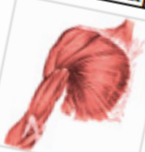
- ✿ teaching aid
- ✿ dynamic resource supporting curricula



Topics

✿ upper limb

Topographical anatomy of the upper limb



The presentation discusses the topographic information about visible and palpable division of the upper limb into regions and as superficial

author: [doc. MVDr. Jozef Mihalik, CSc.](#)

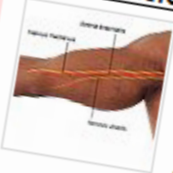
Lymphatic drainage of the upper limb

blood supplying of the upper limb. At the beginning, students will find which have relationship to upper limb. Later you will find out arches. At the end, paper describes lymphatic drainage of the upper limb.

2013 | (cc) BY-NC-ND

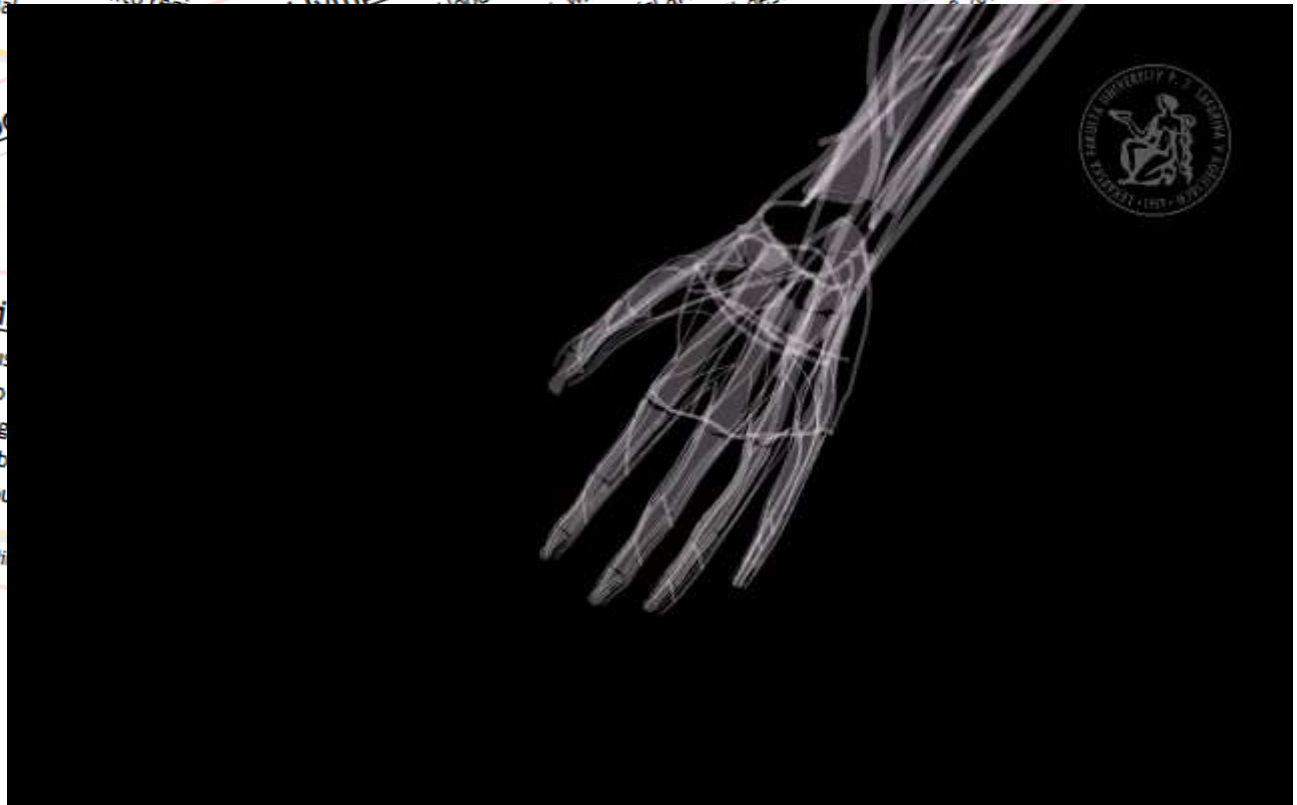
Blood

Innervation of the upper limb



The presentation discusses and cervical plexus, too axillary n., radial n., long The presentation describes students will find out about

author: [doc. MVDr. Jozef Mihalik, CSc.](#) | discipli



Topics

• lower limb

Lower limb - regional anatomy

Lower limb of humans can be divided into regional anatomy" demonstrates the borders and topography. There are vessels and nerves cha.



Innervation of the lower limb

Nerve supply of lower limb. The course of their branches, course of the biggest nerve of the lower limb is described.



author: [doc. MVDr. Sílvia Rybárová, PhD.](#) | discipline: [Anatomy](#) | published on: 10.12.2011

Blood supply and lymphatic drainage of the lower limb

The lecture "Blood supply and lymphatic drainage of the lower limb" describes the course of arteries and their branches and the lymphatic drainage of the lower limb.



author: [doc. MVDr. Sílvia Rybárová, PhD.](#) | discipline: [Anatomy](#) | published on: 10.12.2011

Skeleton, joints and muscles of lower limb - survey

Lower limb consists of the thigh, leg, and foot. The role of the lower limb therefore its bones and other parts are considerably larger and more complex. The presentation offers the lower limb survey - the skeleton, joints and muscles.



author: [doc. MVDr. Sílvia Rybárová, PhD.](#) | discipline: [Anatomy](#) | published on: 10.12.2011



Dissecting rooms

- practical exercises (advance preparation, repetition)
- conduced for SK and ENG students, many students and groups
- face-to-face education
- essential approach

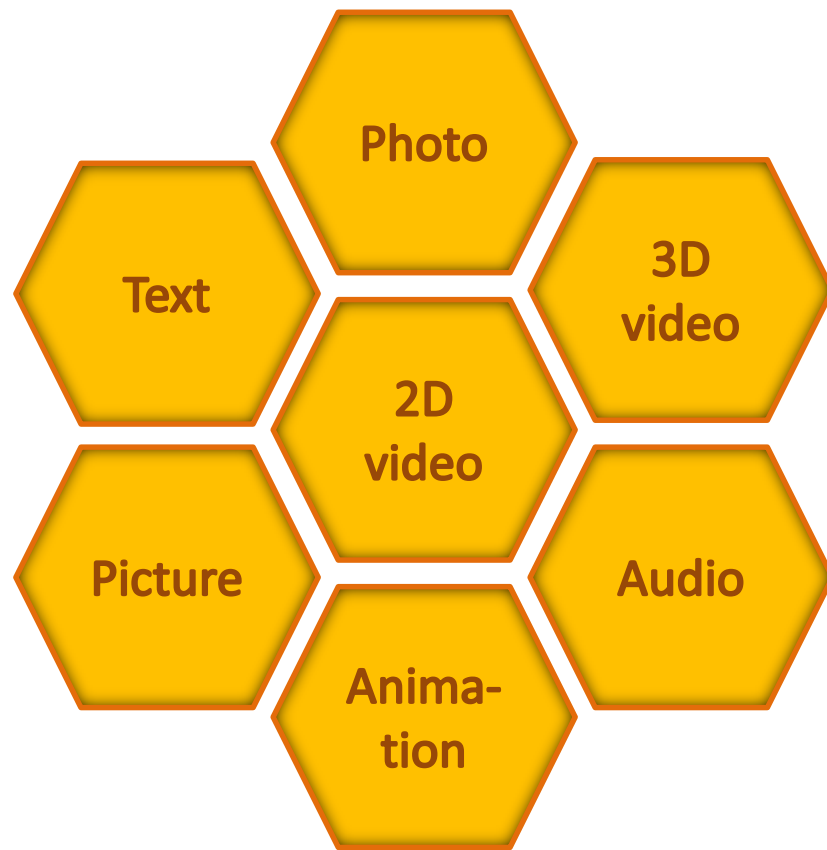


Dissecting rooms

- knowledge of the structure of the human body



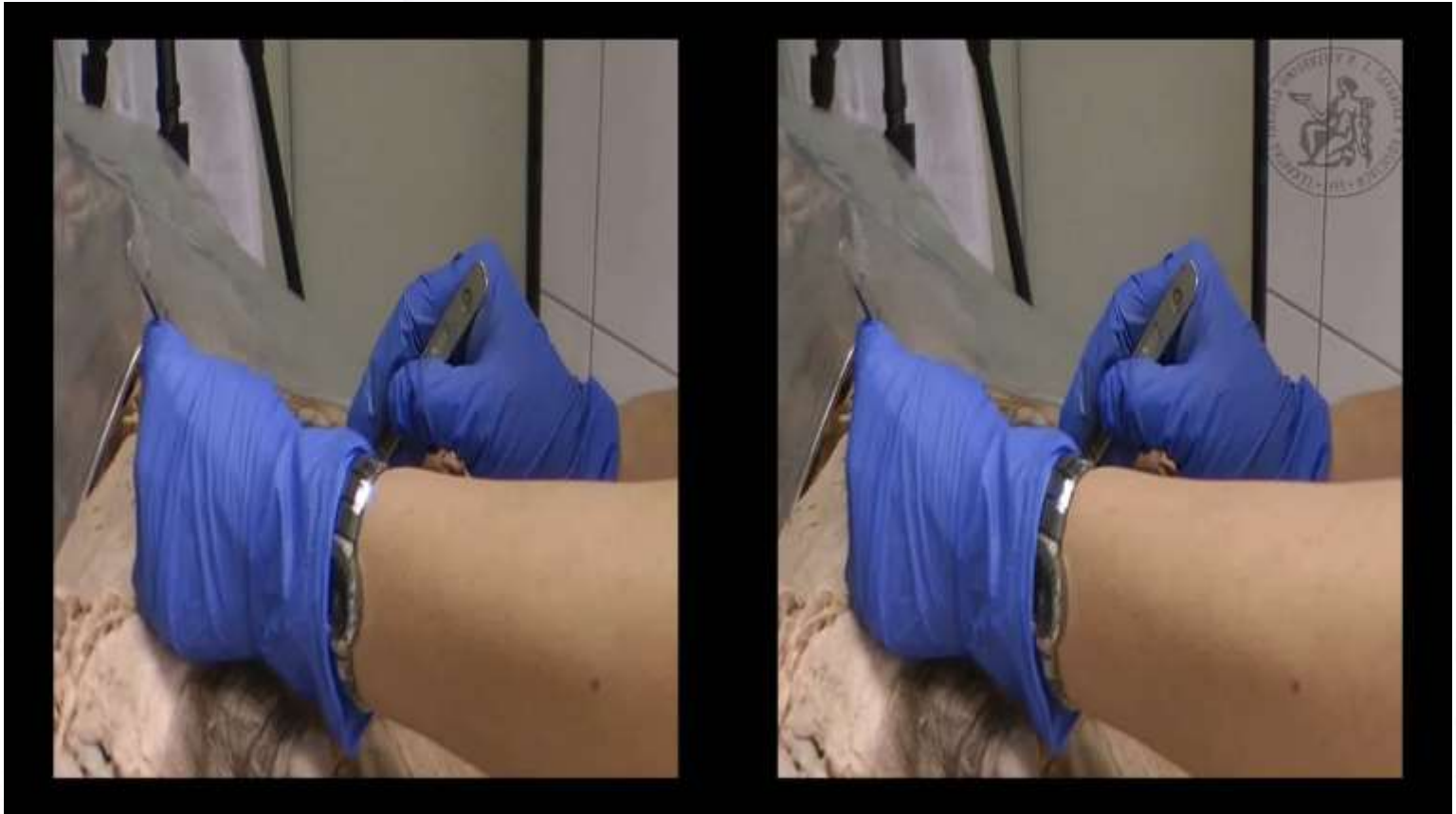
Audiovisual materials



FULL HD (1080p)



3D (720p)

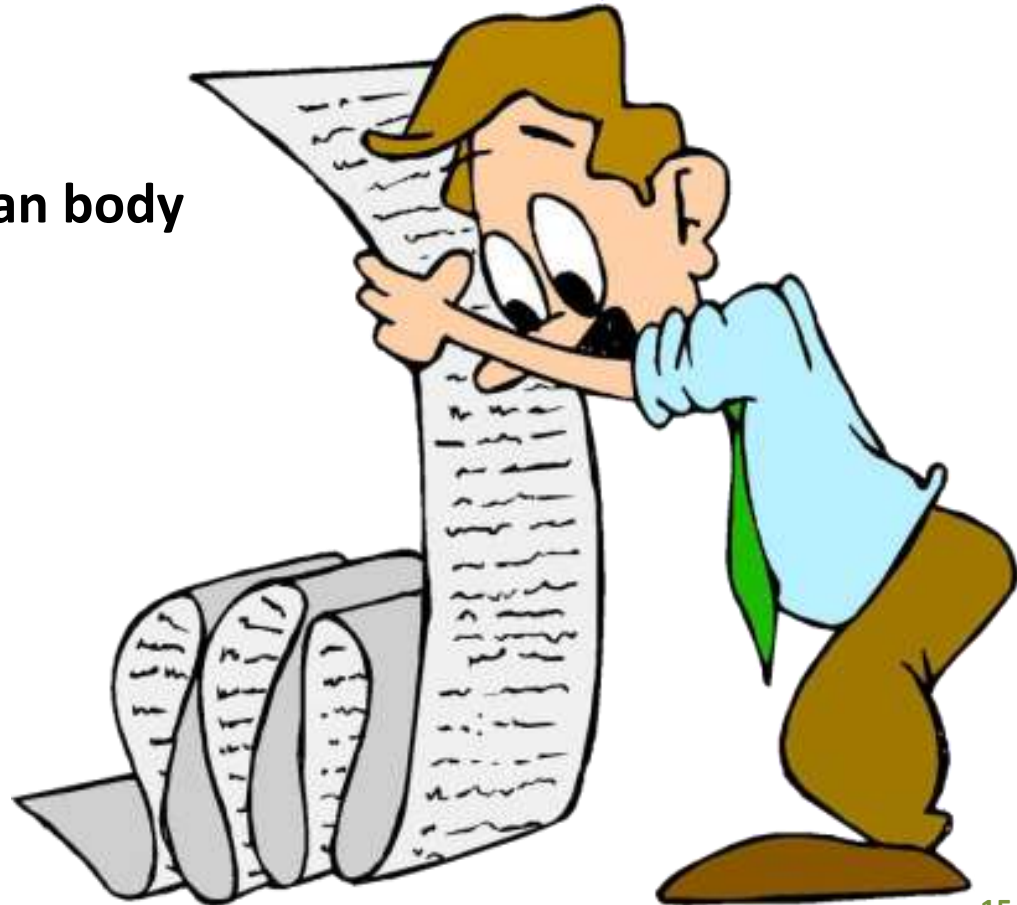


Conversion



Conclusions

- ✿ educational audiovisual materials are produced (based on teachers' requirements)
- ✿ 2D and 3D video records created and combined (when suitable)
- ✿ local and on-line versions
- ✿ **future** – visualize all human body systems



Thanks for your attention

