

Lecture 4

TERMS BY SYSTEMS

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Lecture outline

I. Organization and function of the nervous system.

II. Organization and function of the digestive system.

III. Combining forms, prefixes and suffixes.

IV. Practice.

Lecture objectives:

- to revise the terms which apply to the nervous and digestive systems;
- to revise the word elements and use them to build and understand the meaning of medical words.

I. Organization and function of the nervous system

What is the nervous system responsible for?

What structures is it composed of?

NERVOUS SYSTEM

CENTRAL NERVOUS SYSTEM

PERIPHERAL NERVOUS SYSTEM

BRAIN

SPINAL CORD

12 PAIRS OF CRANIAL NERVES

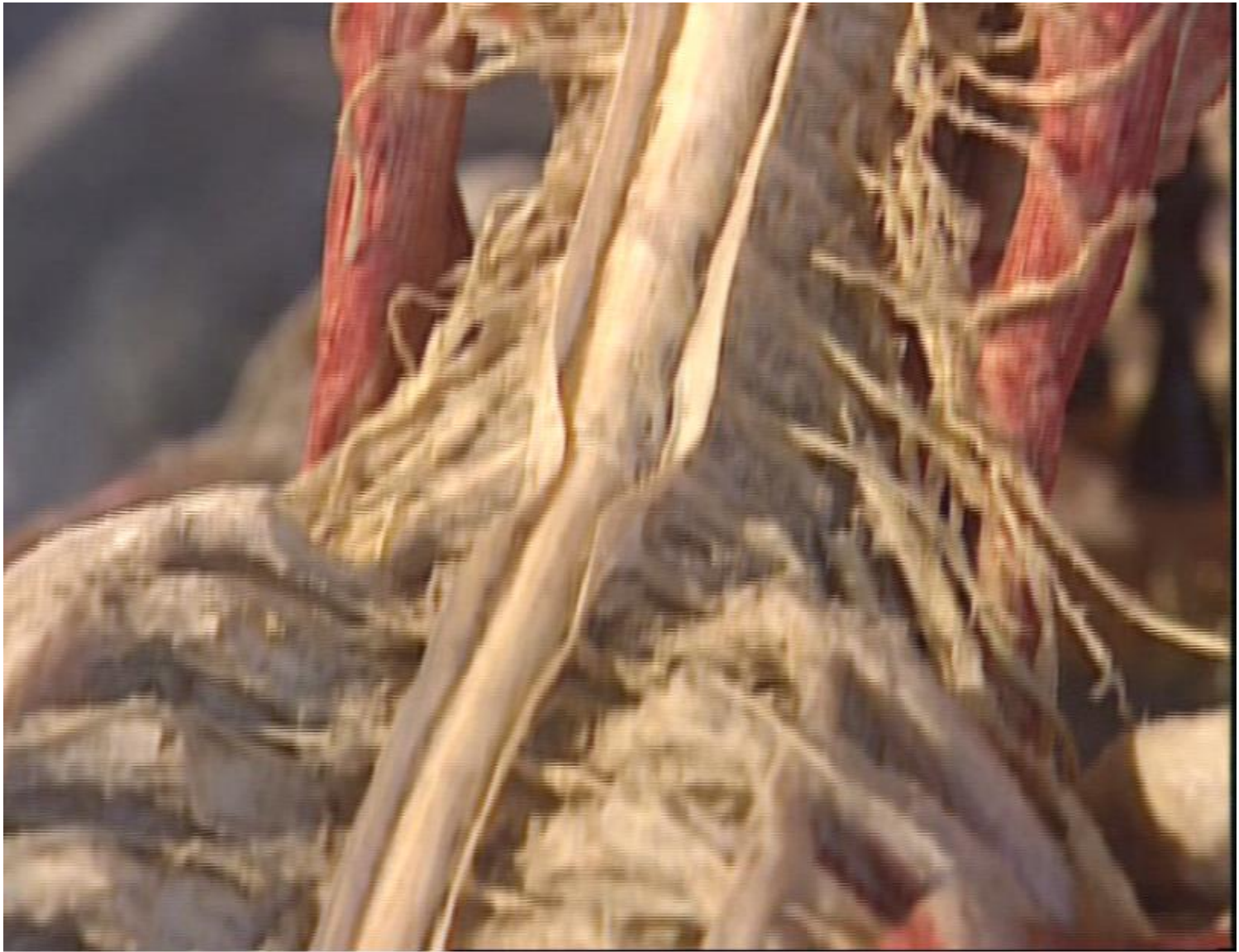
31 PAIRS OF SPINAL NERVES

AUTONOMIC NERVES

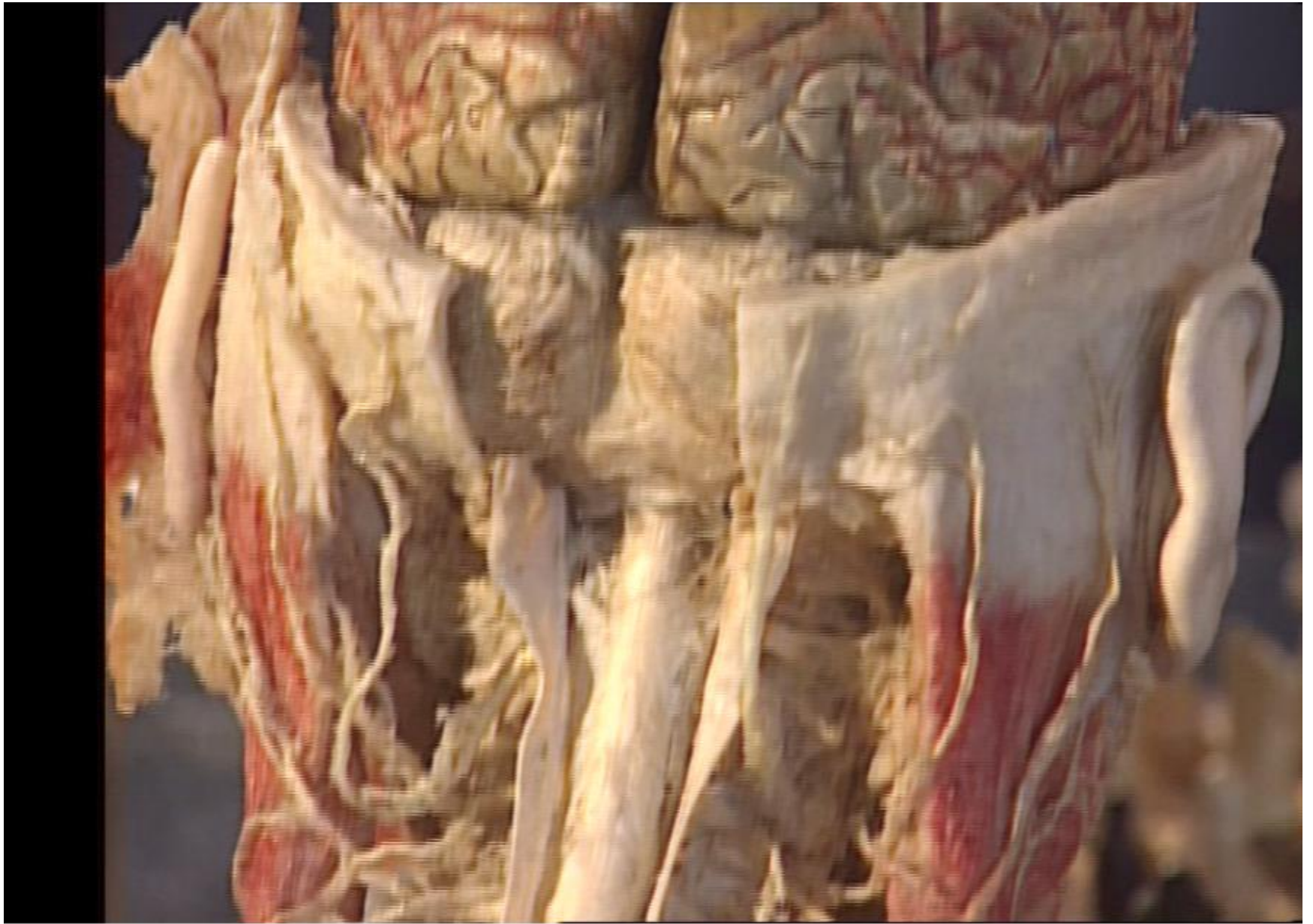
SYMPATHETIC NERVES

PARASYMPATHETIC NERVES

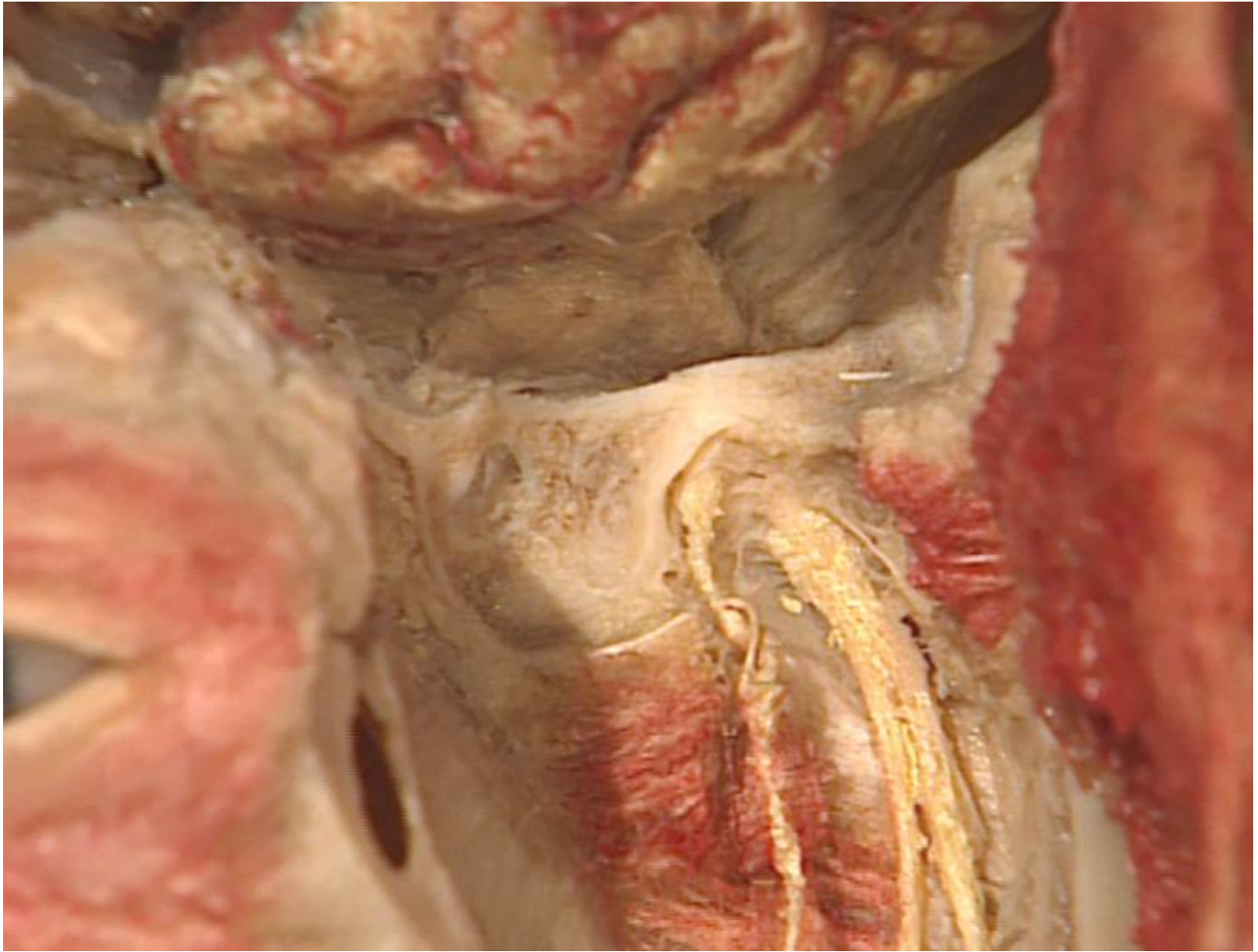


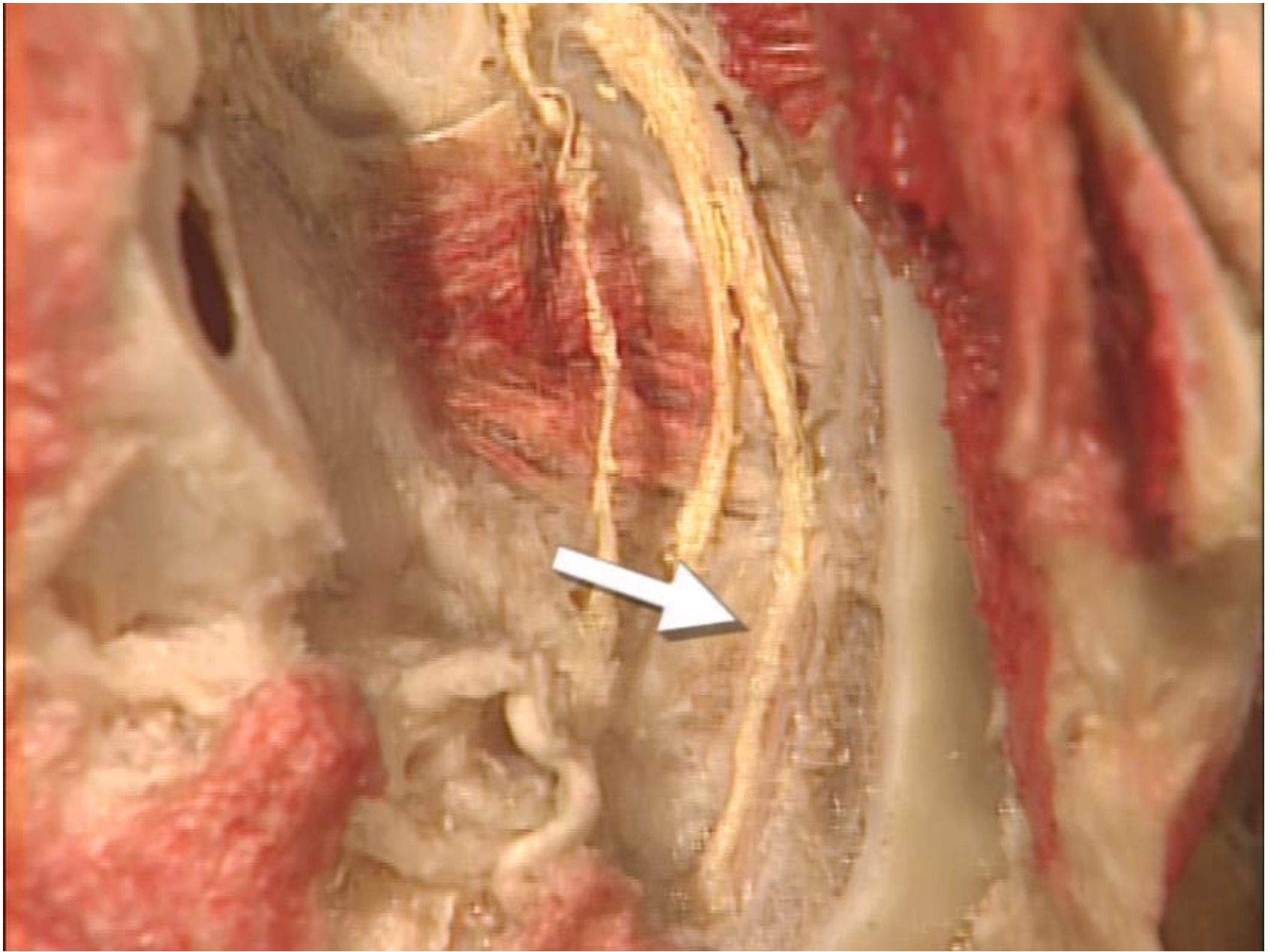




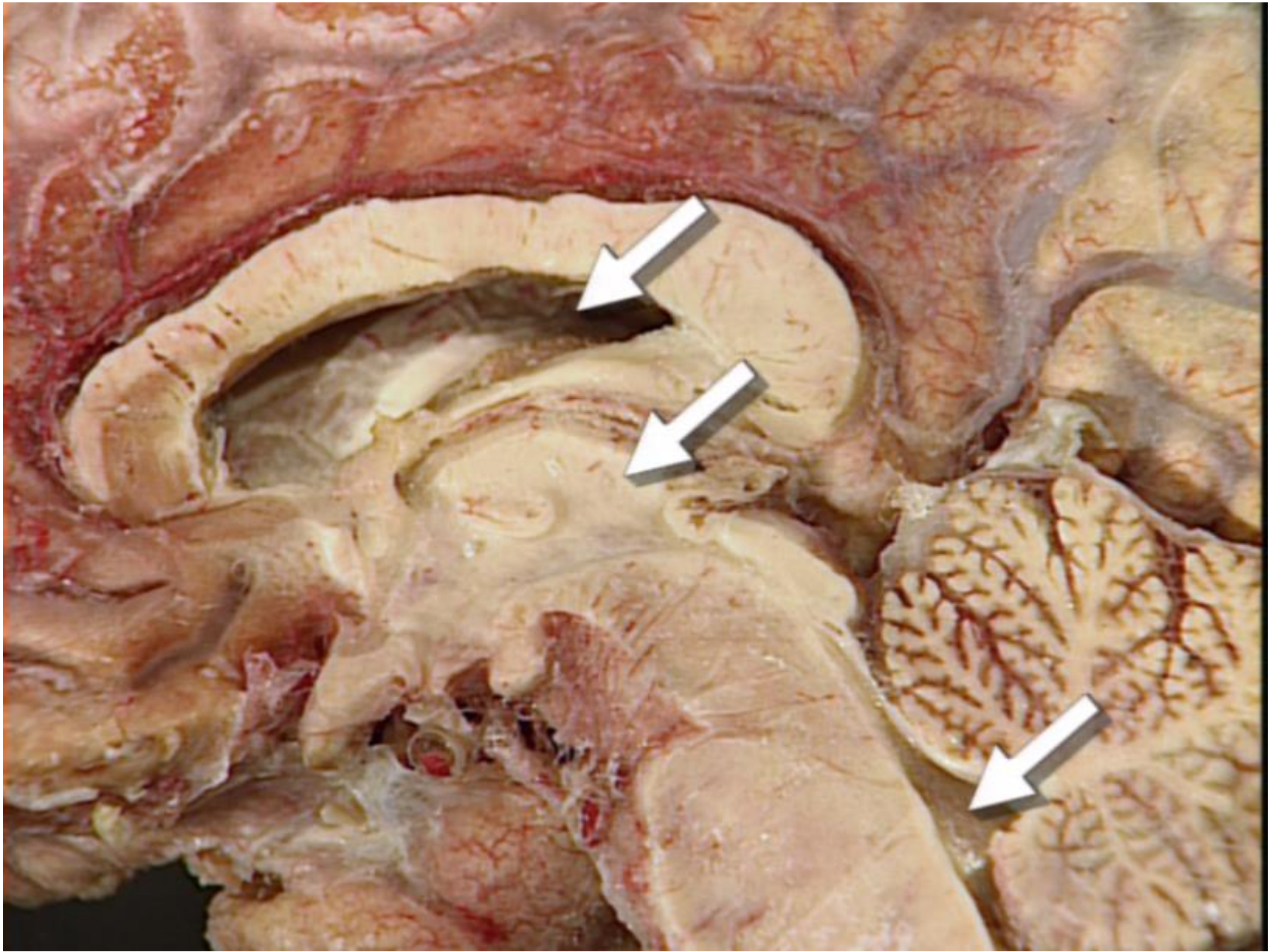




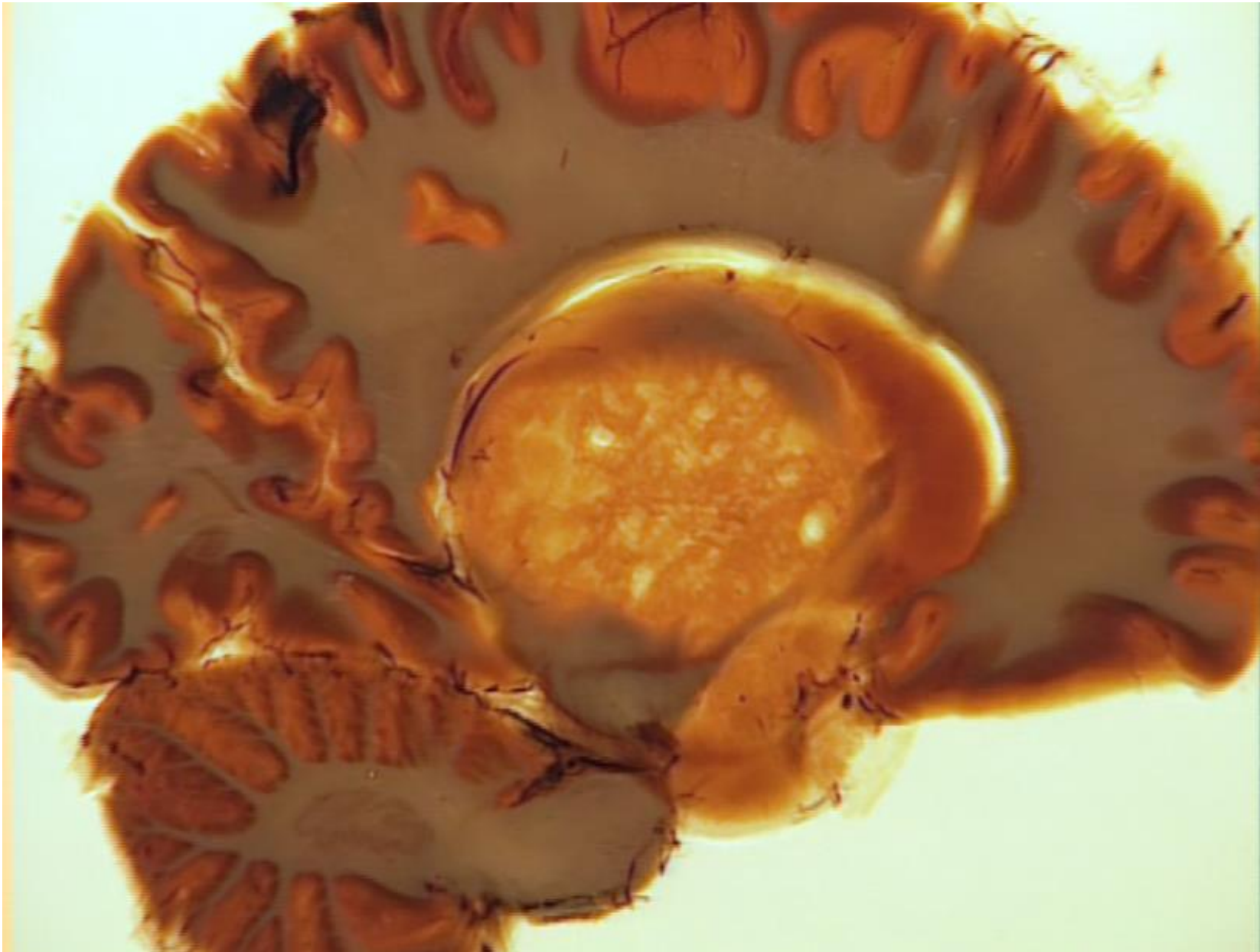


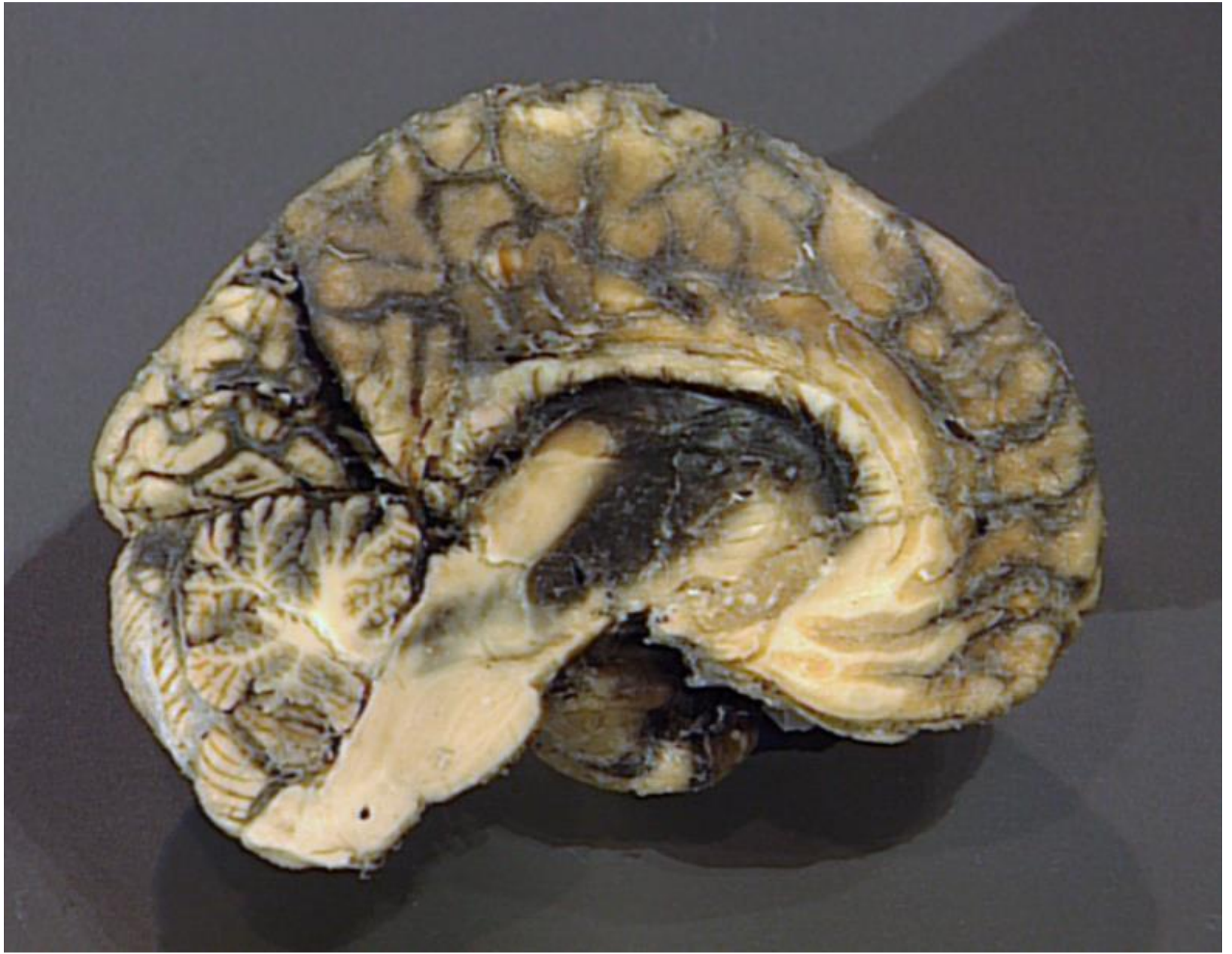


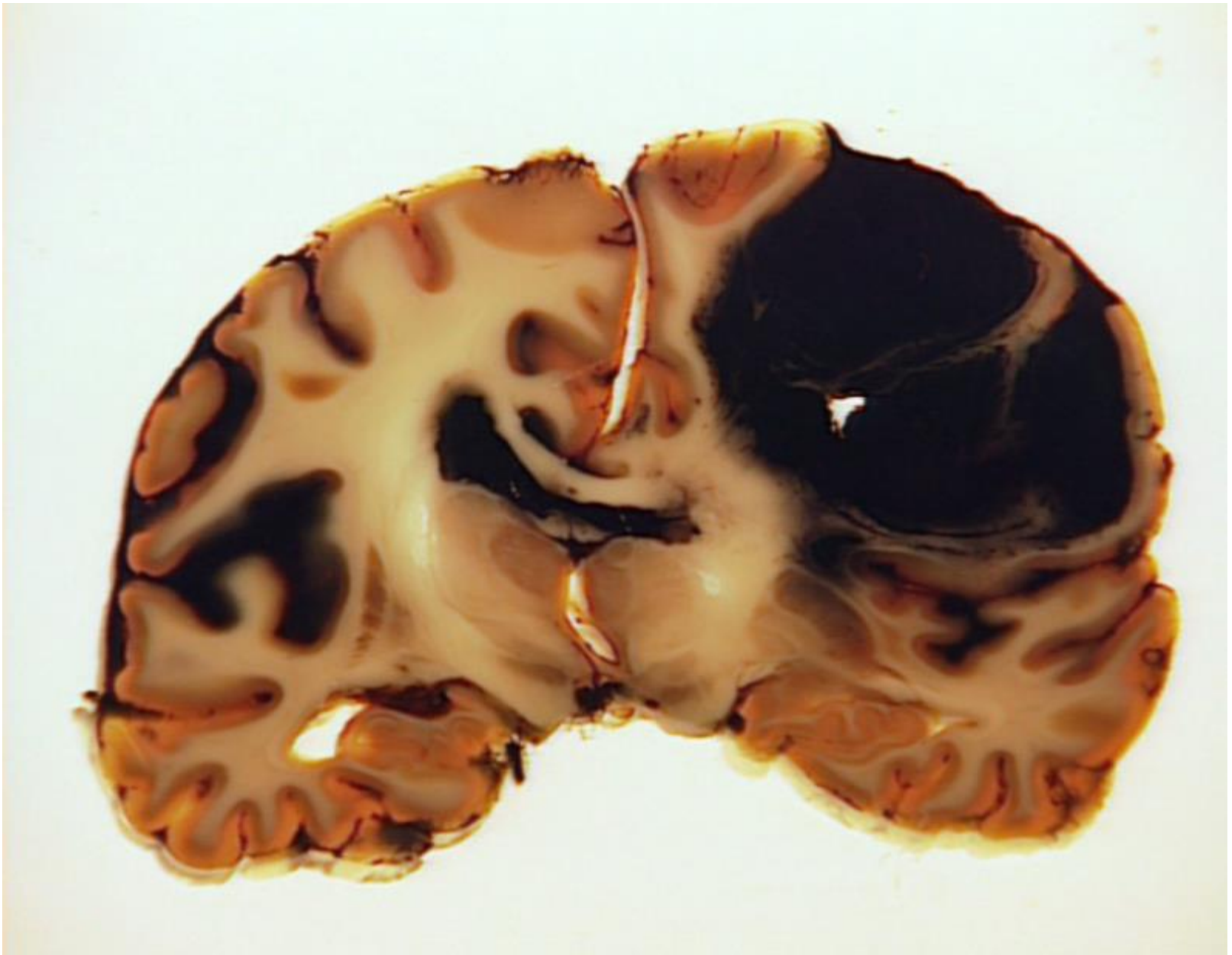












What do these figures stand for:

2%

20%

COMBINING FORMS

neuro- nerve

meningo- meninx

cerebro- brain

encephalo- brain

cranio – skull

-tomy – surgical cutting

-itis – inflammation

-pathy - disease

Build medical words:

Inflammation of the brain

disease of the nervous system

inflammation of the meninges

pertaining to the skull

pertaining to the brain

inflammation of the nerve

science about the nervous system

specialist in diseases of the nervous system

nerve cell

formation of nervous system

surgical cutting of the skull

Keys:

encephalitis

neuropathy

meningitis

cranial

cerebral

neuritis

neurology

neurologist

neurocyte

neurogenesis

craniotomy

II. Organization and function of the digestive system

Mastication, digestion, absorption, excretion: which portions of the digestive system are responsible for these?

Why isn't the stomach lining digested by acidic juices?

What is ulcer?

What do we call the structures in the small intestine responsible for proper absorption of the nutrients?

What is the central metabolic organ of the body?

What is the weight of the liver?

What condition is responsible for the light color of the liver?

What can alcohol consumption result in?

What is the proportion of people with inverted position of the inner organs?

COMBINING FORMS

tonsilo- tonsils

pharyngo – pharynx

laryngo- larynx

gastro- stomach

duodeno- duodenum

esophago- esophagus

hepato- liver

pancreato- pancreas

**cholecysto-
gallbladder**

**-ectomy – surgical
removal**

**-stomy – making a
new opening**

-pexy – fixation

**-scopy – visual
examination**

**-graphy – making a
picture**

BUILD A TERM

Inflammation of tonsils / throat / larynx / stomach /
duodenum / esophagus / liver/ pancreas /
gallbladder

Visual examination of the stomach

Fixation of the kidney

Removal of the tonsils

Surgical removal of the gallbladder

Surgical cutting of the esophagus

Visual examination of the duodenum

Making a picture (x-ray) of the stomach

Keys:

Tonsillitis, pharyngitis, laryngitis, gastritis,
duodenitis, esophagitis, hepatitis, pancreatitis,
cholecystitis

gastroscopy

nephropexy

tonsillectomy

cholecystectomy

esophagotomy

duodenoscopy

gastrography

Recommended literature and sources of information:

A short course in medical terminology / C. Edward Collins. Philadelphia, Penn.; London: Lippincott Williams & Wilkins, 2006.

Chabner D.-E. Medical terminology: a short course St. Louis, Miss.: Elsevier Saunders, 2005.

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