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Morphologic pathology

General and organ pathology

Pathology and its position in medicine

Recommended literature

Institutes of Pathology in Brno

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Methods of pathology

Autopsy

Pathologic anatomy (introductory lecture)

September 16, 2007



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- Autopsy

- Institute of pathology
 - medical practice (biopsy, autopsies)
 - teaching
 - research
- Department of pathology in smaller hospitals (medical practice)

Pathology, morphology

Deals with morphologic characteristics of diseases. According to morphologic features pathologists classify and define diagnostic units (diseases).

Other methods and features are used to classify the diseases today: microbiology, immunohistology, molecular genetics...).

The ultimate goal of classifications is to define diagnostics units according to reliable criteria. This classifications must correlate with clinical features of the disease (prognosis, reaction to therapy...).

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General and organ pathology

- General pathology
- Organ pathology

Deals with diseases and their progress in different organ systems

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General and organ pathology

- General pathology
- Organ pathology

Studies individual organs or organ systems and their diseases

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Pathology and its position in medicine

- standalone scientific discipline
- part of clinical medicine

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Pathology and its position in medicine

- standalone scientific discipline
- part of clinical medicine

- autopsy verifies correctness of diagnosis and therapy
- biopsy necessary to make a diagnosis, progress and extent of a disease and sometimes to verify the therapy

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Books

- Basic Pathology (Kumar, Cotran, Robbins)
- General and Systematic Pathology (Underwood)
- ► Pathology, Basic and Systemic (Woolf)

Internet

- Hypertext atlas of pathology (in Czech)
- Hypertext atlas of dermatopathology
- Hypertext atlas of fetopathology

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- ▶ till 1962: Institute of Pathology, St. Anna Hospital
- ► 1981 1983: bioptic department of MOÚ
- ▶ 1992 1995: bioptic department in Bohuice
- ▶ 1994: private pathology Biocyt

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prof. Sternberg



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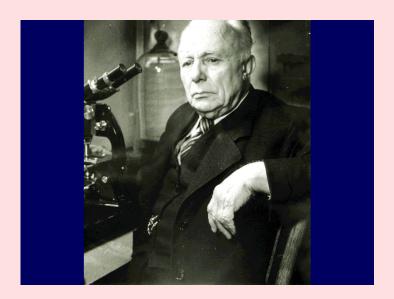
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prof. Neumann



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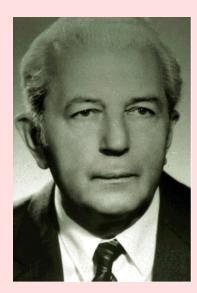
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prof. Švejda



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prof. Dluhoš



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- Autopsy
- ► Biopsy (surgical pathology)

- ► pathological (medical reasons)
- ► forensic

Examinations performed by pathologists

- Autopsy
- ► Biopsy (surgical pathology)

- ► Biopsy (tissues)
- Cytology
- ► Special methods of genetic analysis

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- External examination of a body
- Organ removal
- ► Autopsy of the organs, description, taking samples
- Putting the organs back, preparation for funeral
- Administrative tasks; autopsy protocol

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- External examination of a body
- Organ removal
- Autopsy of the organs, description, taking samples
- ▶ Putting the organs back, preparation for funeral
- ► Administrative tasks; autopsy protocol

Performed by laboratory assistent. Organ complexes are removed from the body. It is important not to damage the body over the necessary minimum; sections can be covered by clothes.

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- Organ removal
- Autopsy of the organs, description, taking samples
- ▶ Putting the organs back, preparation for funeral
- ► Administrative tasks; autopsy protocol

Autopsy of the organs is usually performed by standard method. Parts of dissected organs are opened in the same way, which enables to compare the findings. Specimens of tissues are taken for microscopic examination and other specimens are taken for microbiology and other methods.

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- Putting the organs back, preparation for funeral
- Administrative tasks; autopsy protocol

The body is prepared for the funeral.

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- External examination of a body
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- Autopsy of the organs, description, taking samples
- Putting the organs back, preparation for funeral
- ► Administrative tasks; autopsy protocol

Autopsy protocol is put together by pathologist after the autopsy is performed and results of other examinations are available.

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Cooling boxes



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- Description of the autopsy and macroscopic changes
- Evaluation of histological findings and results of other examinations
- ► Diagnostic conclusion
- ► Epicrisis (concise)
- ► Correlation of the clinical and pathological findings

External changes, organ changes, organ weights

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Description of the autopsy and macroscopic changes

 Evaluation of histological findings and results of other examinations

- ▶ Diagnostic conclusion
- ► Epicrisis (concise)
- ► Correlation of the clinical and pathological findings

- 1. Basic disease (morbus principalis)
- 2. Complications (complicationes)
- 3. Cause of death (causa mortis)
- 4. Accessory findings (inventu accessorii)

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- Description of the autopsy and macroscopic changes
- Evaluation of histological findings and results of other examinations
- ► Diagnostic conclusion
- ► Epicrisis (concise)
- ► Correlation of the clinical and pathological findings

In one or two sentences to summarize the basic disease, its course and the cause of death.

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- Description of the autopsy and macroscopic changes
- Evaluation of histological findings and results of other examinations
- Diagnostic conclusion
- ► Epicrisis (concise)
- Correlation of the clinical and pathological findings

- 1. full correlation of clinical and autoptic findings
- 2. small differences
- substantial differences, when the clinical diagnosis is incomplete or partially wrong and such incorrect diagnosis influenced the therapy
- complete discrepancy between the clinical and autoptical finding

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