LABQUALITY



Pathology Product Portfolio

Labquality's external quality assessment service program includes more than 170 clinically relevant EQA schemes, covering the key specialities of laboratory medicine. Furthermore, the program includes a wide range of products intended for point-of-care test sites. Currently, more than 6,000 laboratories and POCT sites globally use Labquality's EQA schemes.

External quality assessment (EQA) schemes for pathology: Clinical cytology (including both gynaecological and non-gynaecological cytology), histopathology, immunohistochemistry and histological staining techniques. With changing topics for the rounds, both the routine and more advanced needs of pathology laboratories are covered. The challenges are realistic and include even the less commonly encountered clinically relevant cases.

SALES AND CUSTOMER SERVICE

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Clinical cytology

VIRTUAL

Virtual microscopy with gynaecology and non-gynaecology topics

Topics in 2023 and 2024

- 6700: Gynaecological cytology (smear), virtual microscopy (March)
- 6701: Gynaecological cytology (liquid based), virtual microscopy (May)
- 6702: Non-gynaecological cytology, virtual microscopy (October)

Specimens

Brief case histories are provided.

Gynaecological cytology (6700, 6701)

Virtual images of 5–6 Papanicolaou stained slides of gynaecological specimen. The specimens are selected from routine cytological material. Diagnostics of cellular atypias in samples taken from gynaecological loci is assessed. Scheme 6700 includes the conventional pap smear samples. Scheme 6701 includes liquid based cytology (LBC) samples (ThinPrep).

Non-gynaecological cytology (6702)

Virtual images of Papanicolaou stained slides of non-gynaecological cytosentrifuge or smear preparations or May-Grünwald-Giemsa stained smears. Images of 5–6 cases from representative loci.

Examinations

Observations and diagnoses

Reports

- Expert report
- Distribution of diagnoses
- Diagnostic agreement
- · Clinical follow-up data on the cases

Notes

The virtual microscopy program doesn't work with Internet Explorer.

Scheme 6542

Histopathology

VIRTUAL

Virtual microscopy with changing topics

Topics in 2023

- March: Lymphohematopoietic pathology
- October: Prostate pathology, possibly also including Al reference values

Topics in 2024

- March: Skin pathology
- October: Urothelial tumors

Specimens

Virtual images of at least 5 slides of miscellaneous tissue. Brief case histories and instructions are provided.

Examinations

Observations and diagnoses

Reports

- Expert report
- Distribution of diagnoses
- Diagnostic agreement
- Clinical follow-up data on the cases

Notes

Topics may vary annually.





Histological staining techniques

Varying stains

Topics in 2023

- April: HE, FE
- October: PAS, D-PAS, LEDER

Topics in 2024

- April: Masson Trichrome, Reticulin
- October: Helico-GIEMSA, AB-PAS

Specimens

Unstained paraffin sections or smears on slides

Examinations

Staining of the slides. A set of stained slides is returned to Labquality for evaluation by an expert board.

Reports

- Expert report
- Laboratory specific scores and comments on quality of the staining
- Cumulative history of laboratory specific scores
- Mean scores

Notes

Stains vary annually.

Schemes 6600, 6600S

Immunohisto-chemistry

Comprehensive selection of antibodies

Topics in 2023

- March: SOX10, Prame, Melan A/Mart-1, CK20, CK7
- September: PR, HER2, ER, Ki-67 ja HER2 -ISH* *) also double stain accepted, but no FISH (breast cancer)
- November: CD23, bcl2, bcl6, CD35, CD138 (lymphoma)

Topics in 2024

- March: CD34, alfa-SMA, S-100, CD117, CYT5/6
- September: PR, HER2, ER, Ki-67 ja HER2 -ISH* *) also double stain accepted, but no FISH (breast cancer)
- November: CD3, CD5, CD43, CD45, Pax5 (lymphoma)

Specimens

Unstained paraffin embedded tissue from different tissue blocks or from one multiblock.

Examinations

Staining of the slides. A set of stained slides is returned to Labquality for evaluation by an expert board.

Reports

- Expert report
- · Laboratory specific scores and comments on quality of the staining
- Cumulative history of laboratory specific scores
- Mean scores

Notes

Changes in frequency, antibodies and sample type. Three rounds with distinct topics available annually. Multiblock samples are now included. Participants can select 3 or 5 antibodies of their choice in each round (6600S for 3 antibodies, 6600 for 5).





Preanalytics and process in anatomic pathology

Туре

This preanalytical external quality assessment scheme provide a unique means to assess a larger part of the total pathology laboratory process. Real life scenarios are used as case studies in this scheme. In every case the participants are asked to define the action they would do if they encountered a similar case in their daily work and also to identify possible preanalytical error(s) and error(s) in pathology process including dissection, tissue processing, embedding, cutting and staining.

Specimen

- Two rounds in a year.
- 3-5 cases with preanalytical and process error(s) in every round.

Examinations

Participants are asked to find preanalytical and analytical error(s) in the cases. Main question: Would you accept this sample?

Reports

- Expert report
- The approach of this schme is educational
- The results are not scored

Additional information

The scheme is intended for all laboratory staff of pathology laboratories.

Notes

The scheme is carried out online with no specimen delivery.

Virtual microscopy

Available globally | No shipping costs No stability or homogeneity issues

Virtual microscopy involves scanned high-resolution images of representative microscope specimens. The participants can view the virtual slides on their own computer screens. Viewing of several fields of vision and levels of focus with various magnifications are enabled to simulate analysis with an optical microscope. The navigation is easy and virtual slides can be viewed even with a cellular phone. Virtual microscopy allows independent viewing of images simultaneously in different locations.

Virtual microscopy provides a powerful tool for disciplines traditionally limited by the homogeneity and size of the specimen. At present, Labquality offers eight virtual microscopy based EQA schemes including those for clinical cytology and histopathology. In pathology schemes the whole specimen slide has been scanned.



5 x magnification



10 x magnification



50 x magnification

iles of three different magnifications of one specimen slide in Labquality's histopathology round in 201