

External Quality Assessment Scheme

Nasal swab cells Round 1, 2022

Specimens

The samples S001-S004 in this scheme are four digital images. No physical samples are sent to the clients

Background information

The samples are May-Grunwald-Giemsa-stained nasal swab specimens, and the images were taken with a digital microscope using 10x or 20x and 100x objective. Participants are asked to identify the main finding, or the findings marked with arrows.

Examinations

Nasal cells

Result reporting

Please enter the results via LabScala.

CASES

Case 1 (LQ751222011)

Clinical information: a 52-year-old woman has been complaining for several years of episodic nasal congestion and difficulty breathing. Currently she complains of hoarseness of voice. Clinical diagnosis: chronic rhinitis, no symptoms of allergy at present.

Case 2 (LQ751222012)

Clinical information: an 18-year-old male complains of nasal drip, sneezing, redness, watery eyes every 3 months. Allergic to cat hair. Clinical diagnosis: vasomotor and allergic rhinitis.

Case 3 (LQ751222013)

Clinical information: a 34-year-old man complains of skin rashes on the ankles. He has had allergic rhinitis for many years and is allergic to animal hair. Clinical diagnosis: atopic dermatitis, allergic rhinitis.

Case 4 (LQ751222014)

Clinical information: a 55-year-old woman complains of a runny nose, which intensified in August, is allergic to cat hair, alder and birch pollen, and got a dog 6 months ago. Clinical diagnosis: allergic rhinitis

2022-11-29

INSTRUCTIONS

Product no. 2651

LQ751222011-14/LT

The results should be reported no later than
December 22, 2022

Inquiries

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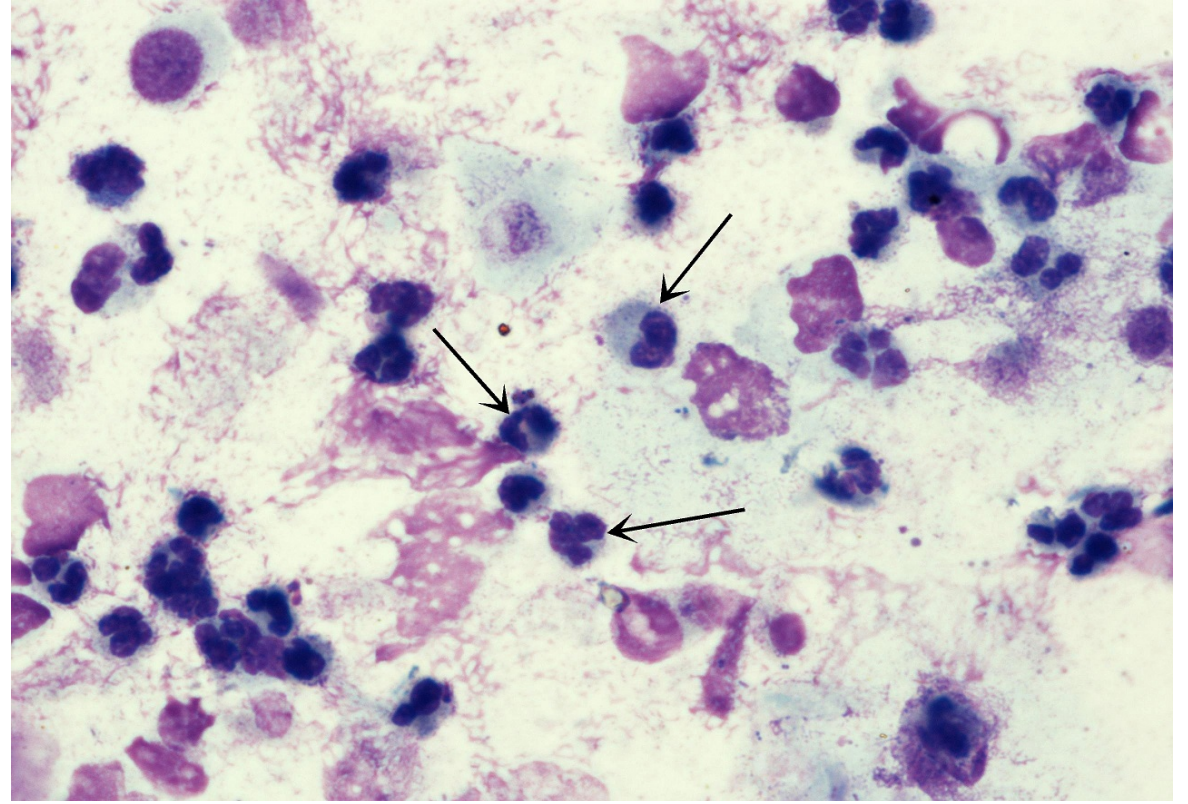
info@labquality.fi

www.labquality.fi



Sample S001

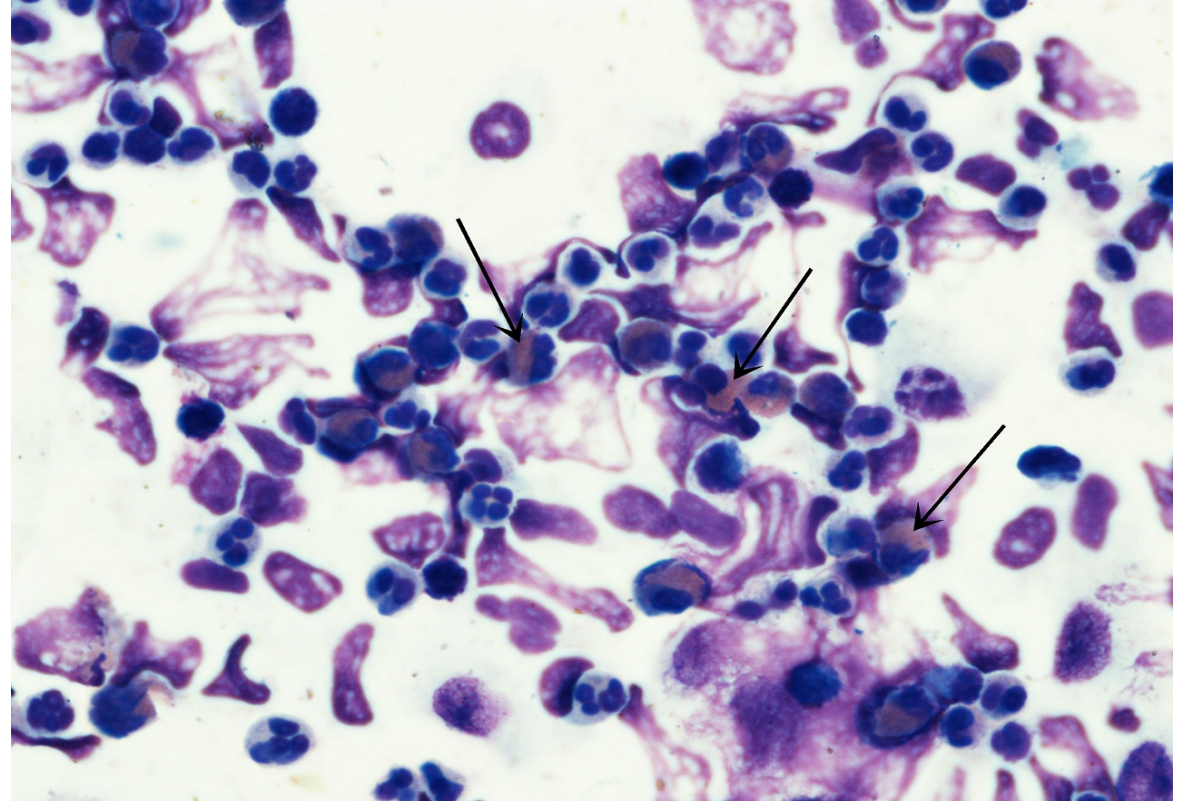
Result - Nasal cell finding	n
Macrophage	1
Neutrophil	28
Total	29



Clinical information was a 52-year-old woman has been complaining for several years of episodic nasal congestion and difficulty breathing. Currently she complains of hoarseness of voice. Clinical diagnosis: chronic rhinitis, no symptoms of allergy at present. Neutrophils predominate in the smear. The correct answer is neutrophils.

Sample S002

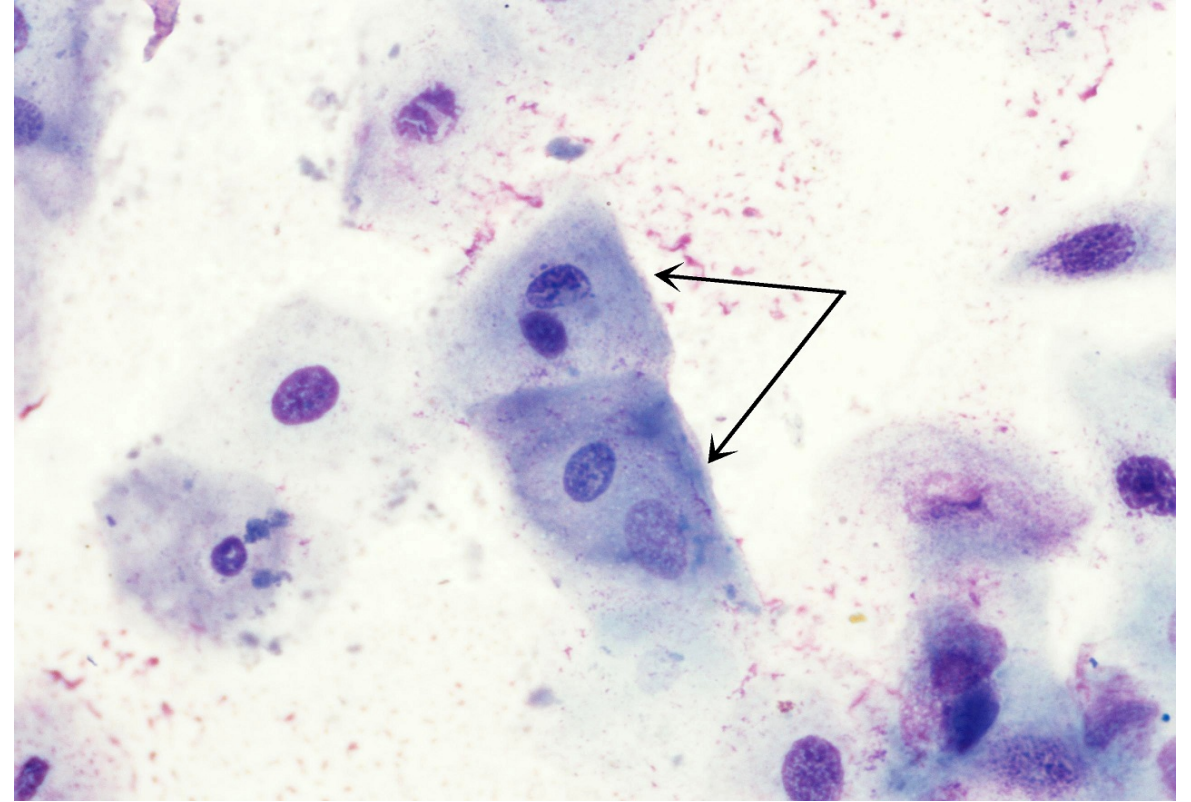
Result - Nasal cell finding	n
Eosinophil	29
Total	29



Clinical information was an 18-year-old male complains of nasal drip, sneezing, redness, watery eyes every 3 months. Allergic to cat hair. Clinical diagnosis: vasomotor and allergic rhinitis. Eosinophils detected on smear. The correct answer is eosinophils.

Sample S003

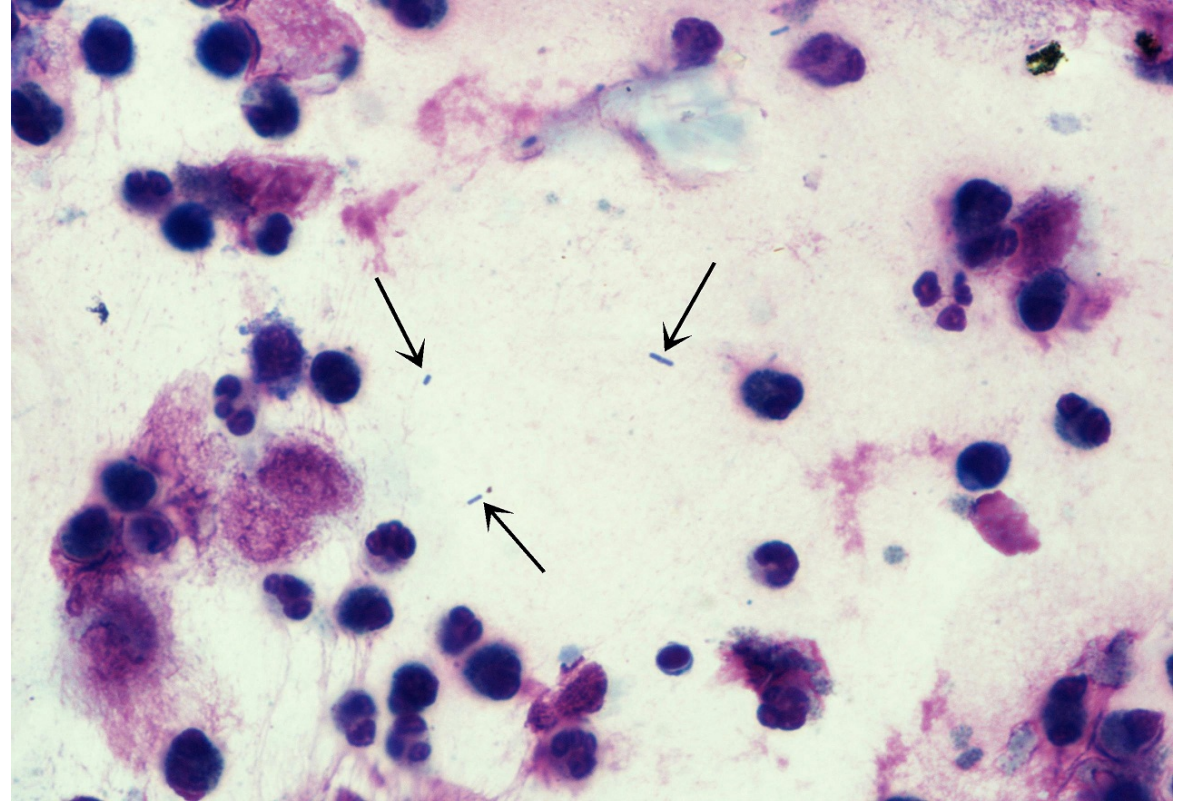
Result - Nasal cell finding	n
Squamous epithelial cell (SEC)	29
Total	29



Clinical information was a 34-year-old man complains of skin rashes on the ankles. He has had allergic rhinitis for many years and is allergic to animal hair. Clinical diagnosis: atopic dermatitis, allergic rhinitis. The smear is predominantly squamous epithelium, non-informative smear. The correct answer is squamous epithelial cells. "Not representative sample" would also have been accepted as a correct answer.

Sample S004

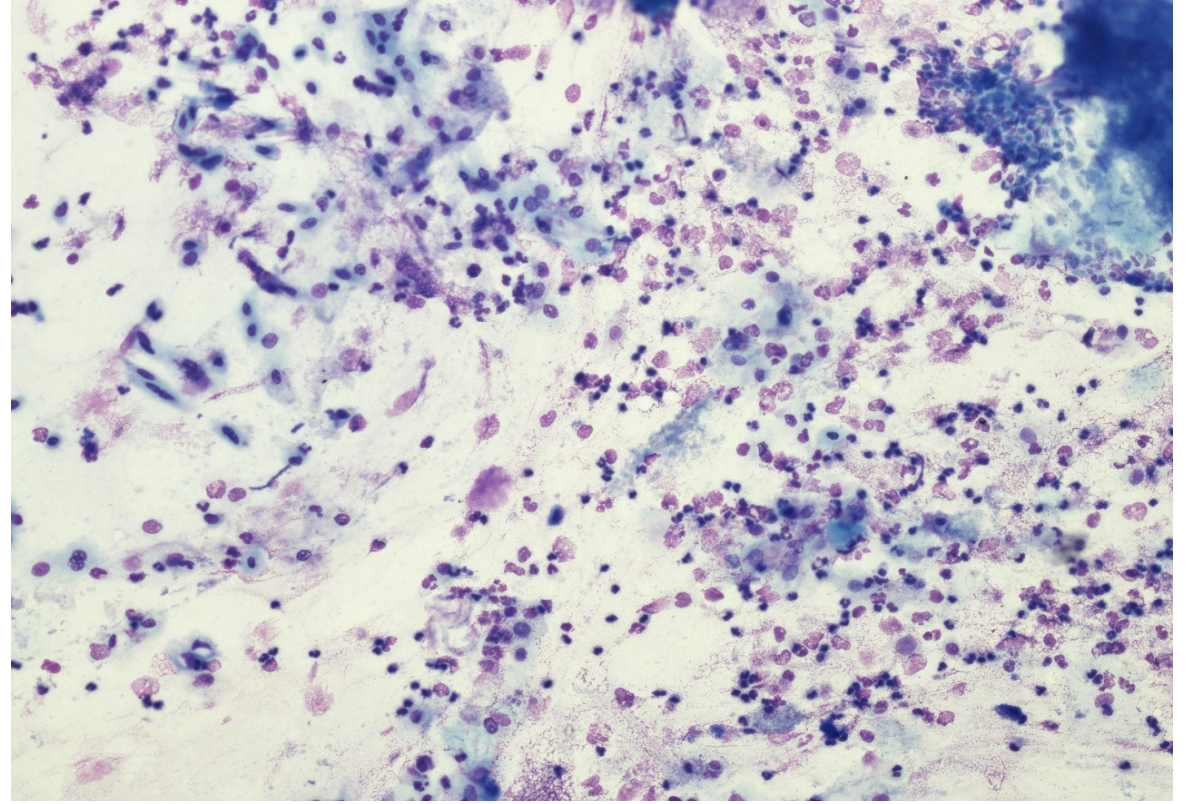
Result - Nasal cell finding	n
Bacteria	28
Fungi	1
Total	29



Clinical information was a 55-year-old woman complains of a runny nose, which intensified in August, is allergic to cat hair, alder and birch pollen, and got a dog 6 months ago. Clinical diagnosis: allergic rhinitis. Neutrophils predominate in the smear. Isolated bacteria were detected. The correct answer is bacteria.

Sample S001

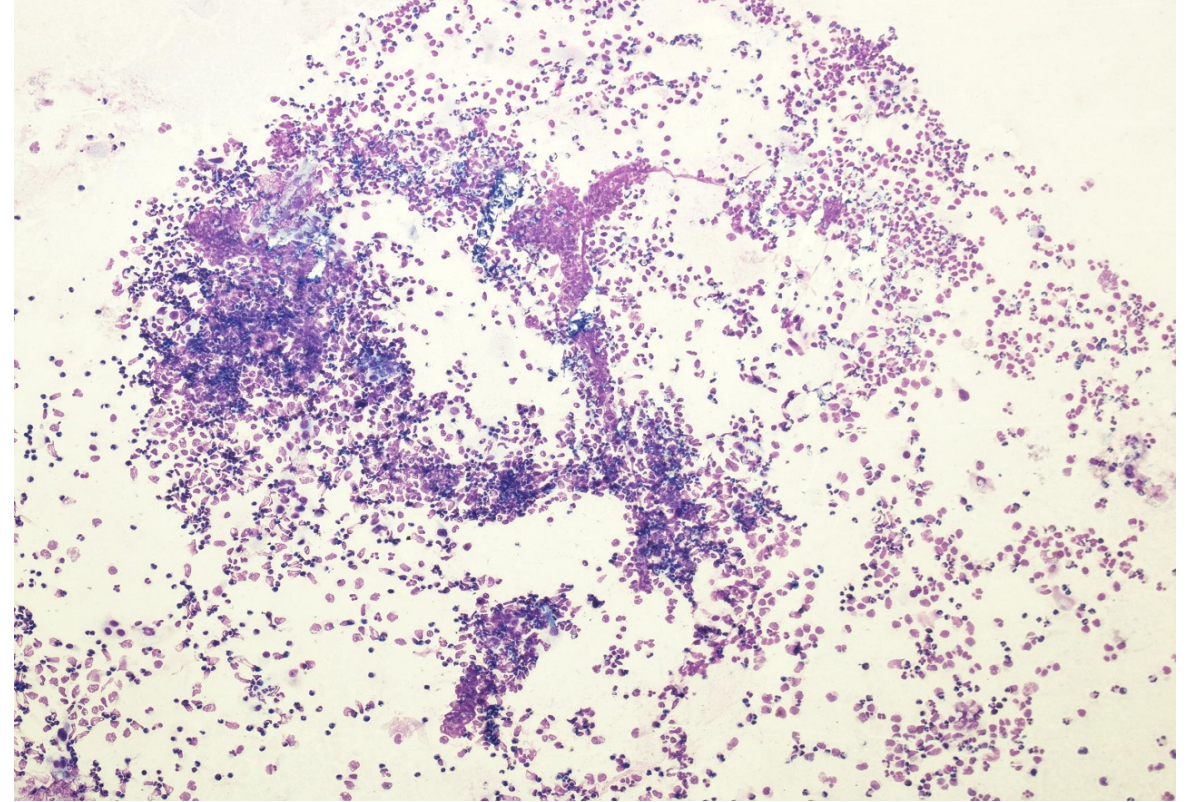
Result - Nasal cell finding	n
Macrophage	1
Neutrophil	28
Total	29



Clinical information was a 52-year-old woman has been complaining for several years of episodic nasal congestion and difficulty breathing. Currently she complains of hoarseness of voice. Clinical diagnosis: chronic rhinitis, no symptoms of allergy at present. Neutrophils predominate in the smear. The correct answer is neutrophils.

Sample S002

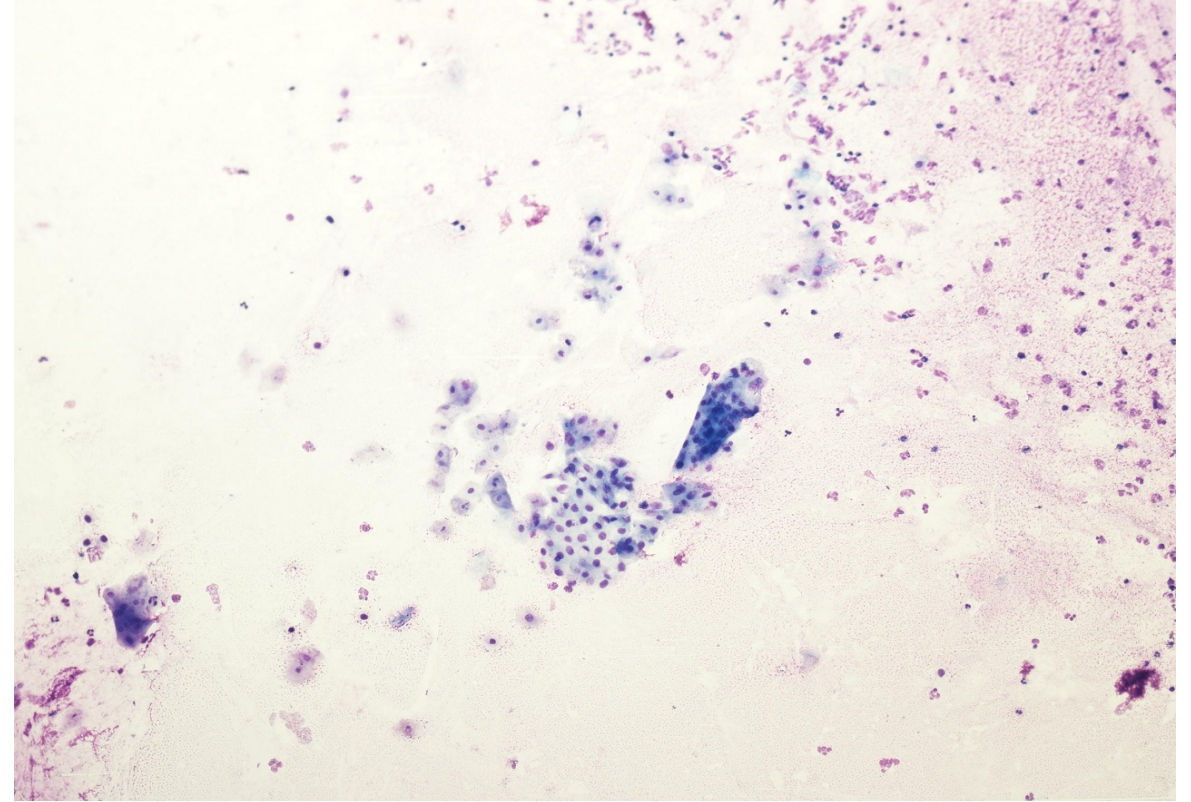
Result - Nasal cell finding	n
Eosinophil	29
Total	29



Clinical information was an 18-year-old male complains of nasal drip, sneezing, redness, watery eyes every 3 months. Allergic to cat hair. Clinical diagnosis: vasomotor and allergic rhinitis. Eosinophils detected on smear. The correct answer is eosinophils.

Sample S003

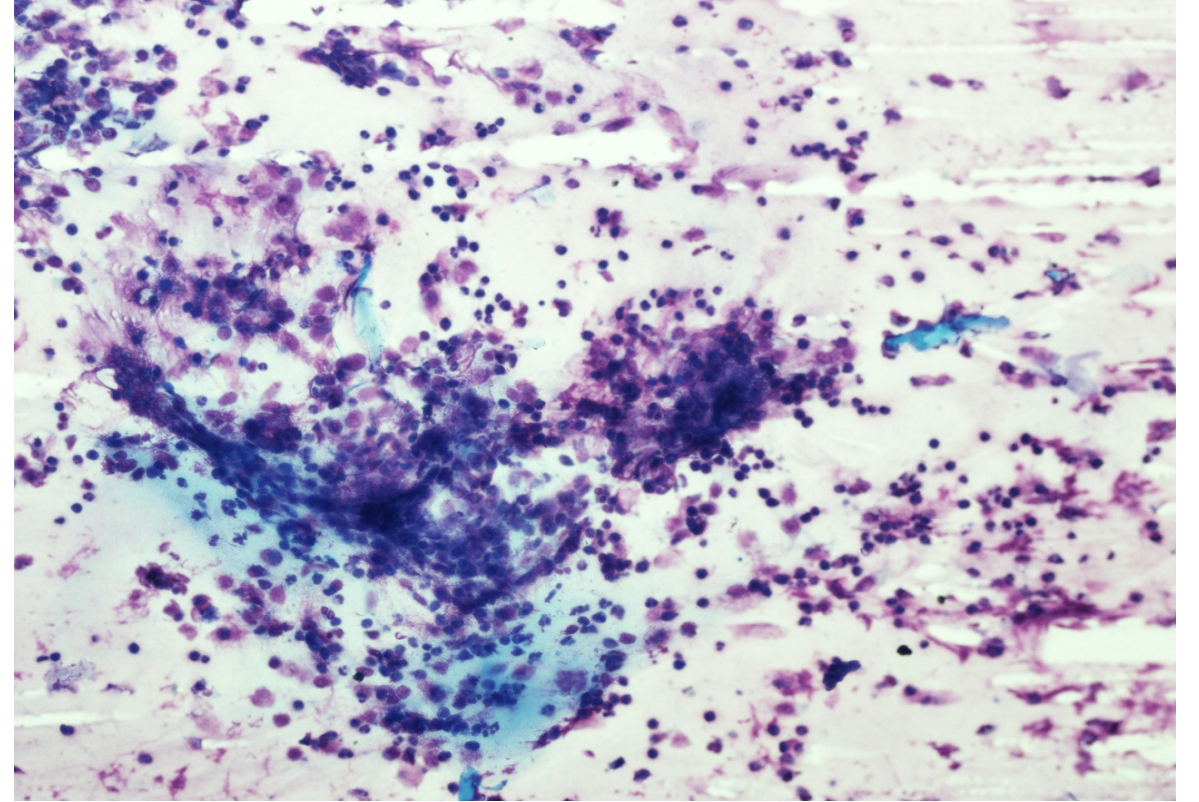
Result - Nasal cell finding	n
Squamous epithelial cell (SEC)	29
Total	29



Clinical information was a 34-year-old man complains of skin rashes on the ankles. He has had allergic rhinitis for many years and is allergic to animal hair. Clinical diagnosis: atopic dermatitis, allergic rhinitis. The smear is predominantly squamous epithelium, non-informative smear. The correct answer is squamous epithelial cells. "Not representative sample" would also have been accepted as a correct answer.

Sample S004

Result - Nasal cell finding	n
Bacteria	28
Fungi	1
Total	29



Clinical information was a 55-year-old woman complains of a runny nose, which intensified in August, is allergic to cat hair, alder and birch pollen, and got a dog 6 months ago. Clinical diagnosis: allergic rhinitis. Neutrophils predominate in the smear. Isolated bacteria were detected. The correct answer is bacteria.

External Quality Assessment Scheme

Nasal swab cells Round 1, 2022

Specimens

Specimens S001-S004 (LQ751222011 - LQ751222014) were digital images in LabScala.

Report info

The report contains numerical summary with individual results presented in a table. Expected and accepted results are marked with green colour and laboratory's own result with a black radio button (Ⓞ). If you have not reported any results, you will get a note: "You have not responded in time, only global report is available."

It is important to read the Final report first, because it contains important information of the samples and results in each round.

Comments – EQA Coordinator

All main findings were excellently identified by the participants. The success rates for the samples were as follows: sample 1: 97%, sample 2: 100%, sample 3: 100% and sample 4: 97%.

Comments – Expert

Sample S001

Clinical information was a 52-year-old woman has been complaining for several years of episodic nasal congestion and difficulty breathing. Currently she complains of hoarseness of voice. Clinical diagnosis: chronic rhinitis, no symptoms of allergy at present. Neutrophils predominate in the smear. The correct answer is neutrophils.

Sample S002

Clinical information was an 18-year-old male complains of nasal drip, sneezing, redness, watery eyes every 3 months. Allergic to cat hair. Clinical diagnosis: vasomotor and allergic rhinitis. Eosinophils detected on smear. The correct answer is eosinophils.

Sample S003

Clinical information was a 34-year-old man complains of skin rashes on the ankles. He has had allergic rhinitis for many years and is allergic to animal hair. Clinical diagnosis: atopic dermatitis, allergic rhinitis. The smear is predominantly squamous epithelium, non-informative smear. The correct answer is squamous epithelial cells. "Not representative sample" would also have been accepted as a correct answer.

Sample S004

Clinical information was a 55-year-old woman complains of a runny nose, which intensified in August, is allergic to cat hair, alder and birch pollen, and got a dog 6 months ago. Clinical diagnosis: allergic rhinitis. Neutrophils predominate in the smear. Isolated bacteria were detected. The correct answer is bacteria.

End of report

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2022-12-23

FINAL REPORT

Product no. 2651

Subcontracting:
Sample preparation

Samples sent	2022-11-29
Round closed	2022-12-22
Final report	2022-12-23

Request for correction

Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing. Requests must be notified by writing within three weeks from the date of this letter.

Authorized by

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