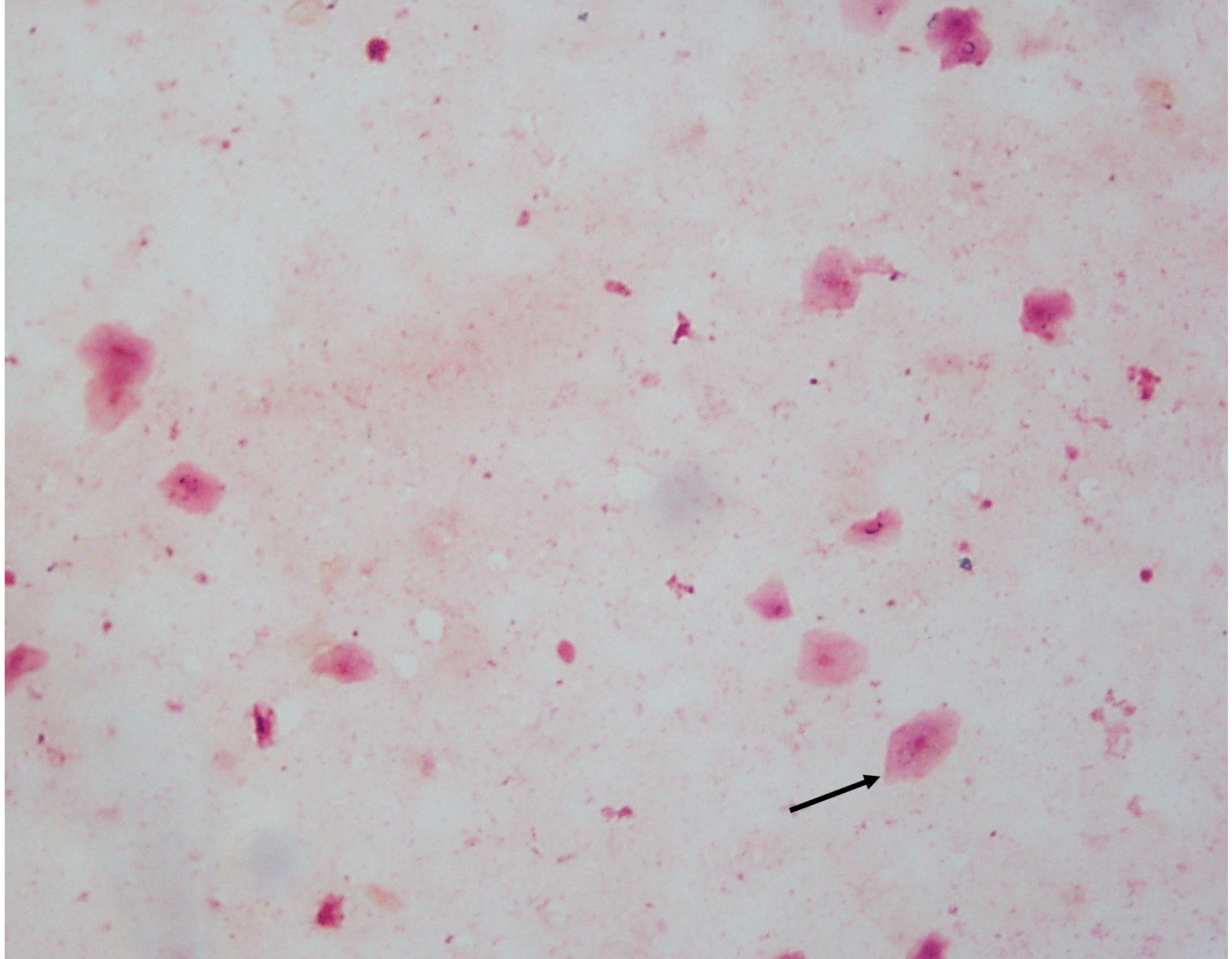
Direct Smear Training Guide

Lower Respiratory Tract Specimens

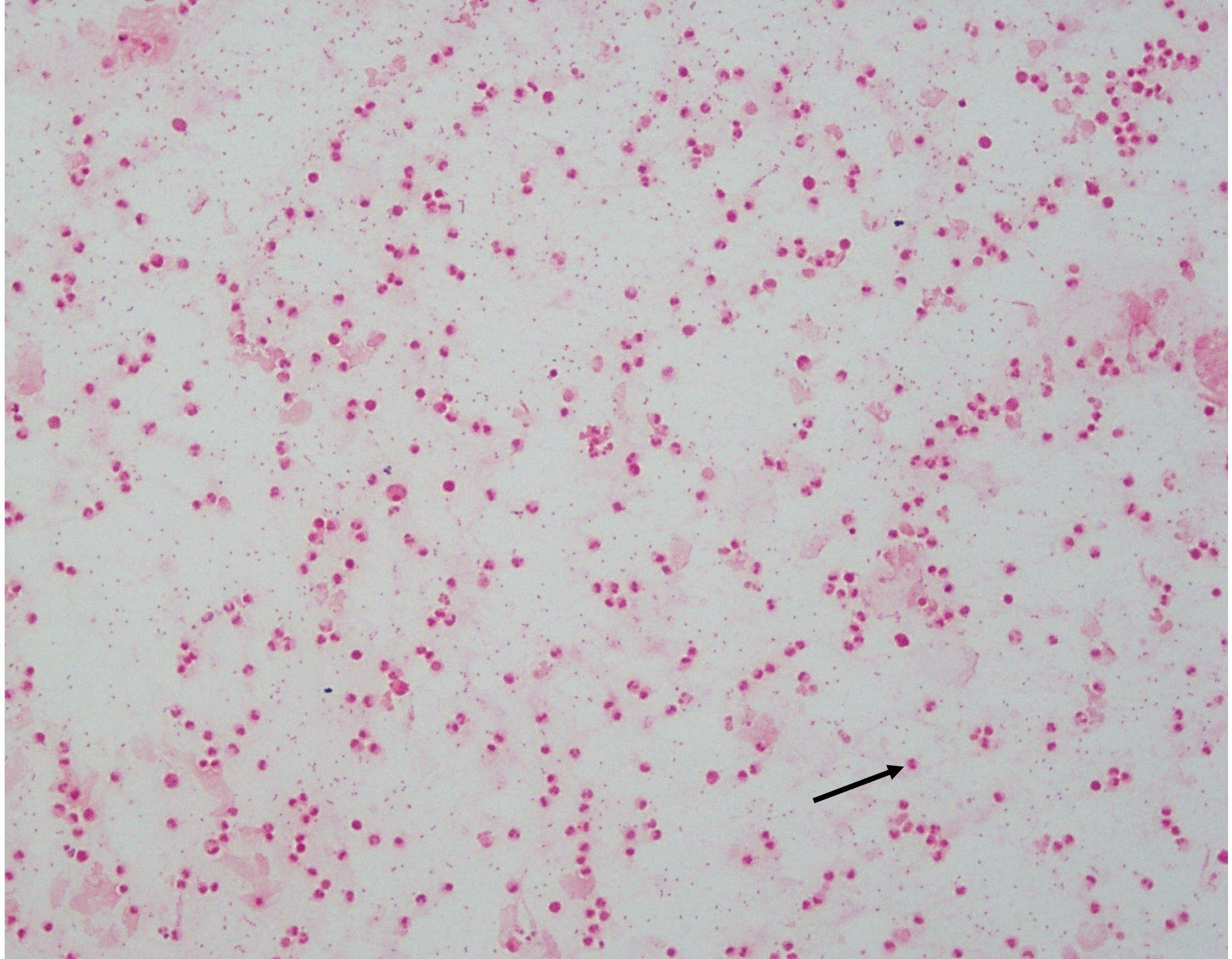
Compiled by:
Wisconsin Clinical Laboratory Network
Laboratory Technical Advisory Group (LabTAG)

Sputum Screen #1; 10x Objective

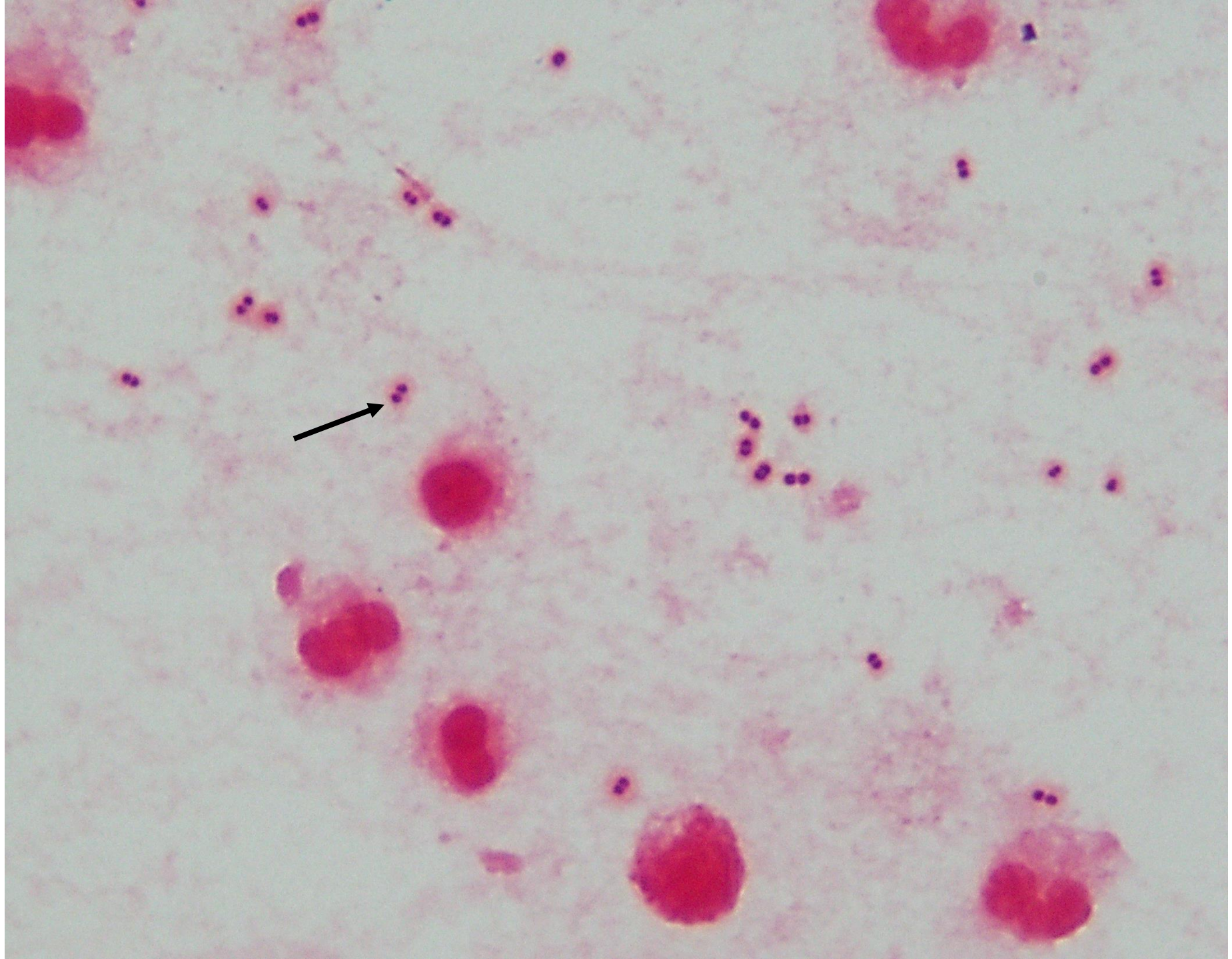


REJECTED FOR CULTURE
(predominant epithelial cells)

Sputum Screen #2; 10x Objective

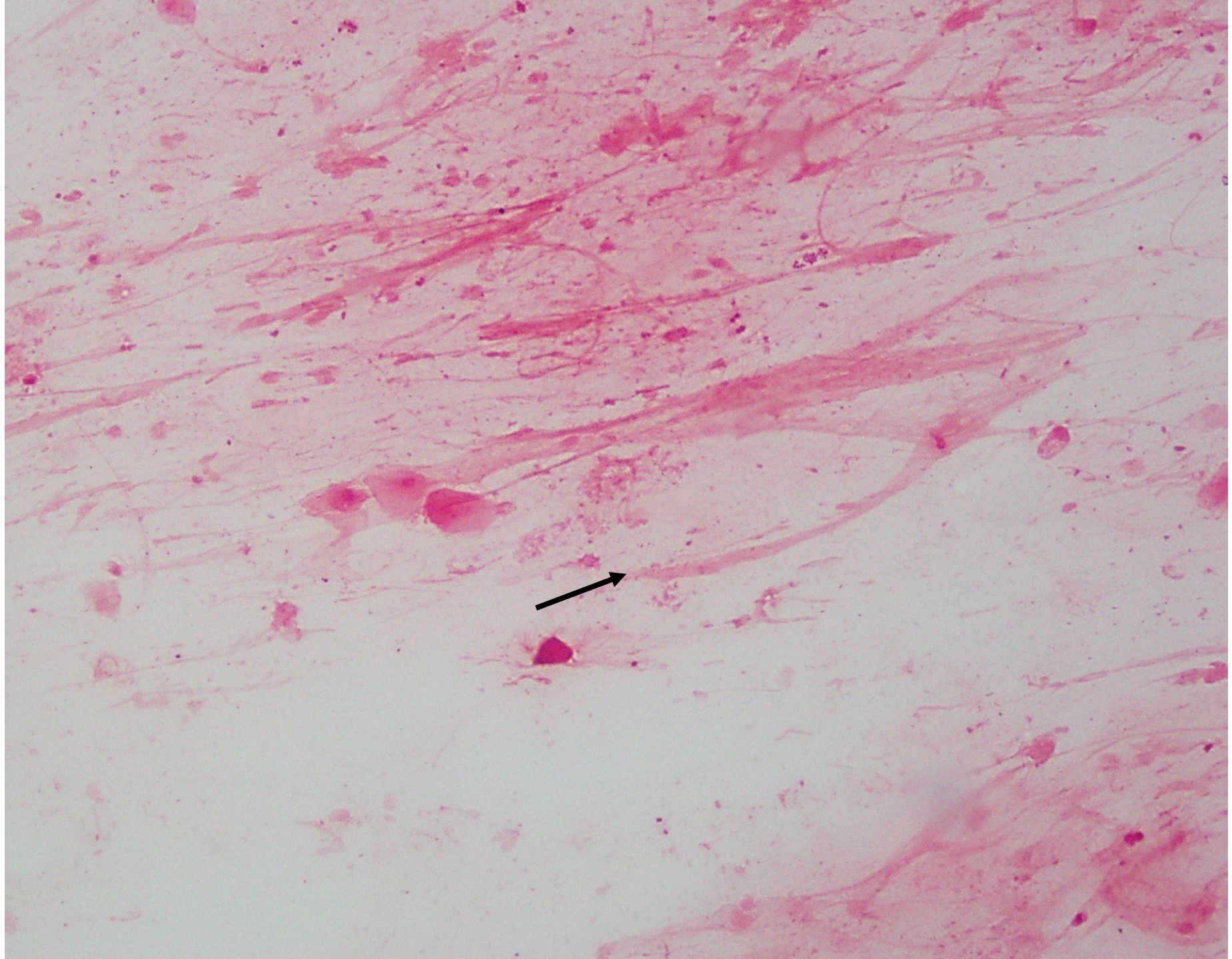


Accepted for culture (predominant WBC);
Go to 100x Oil Immersion

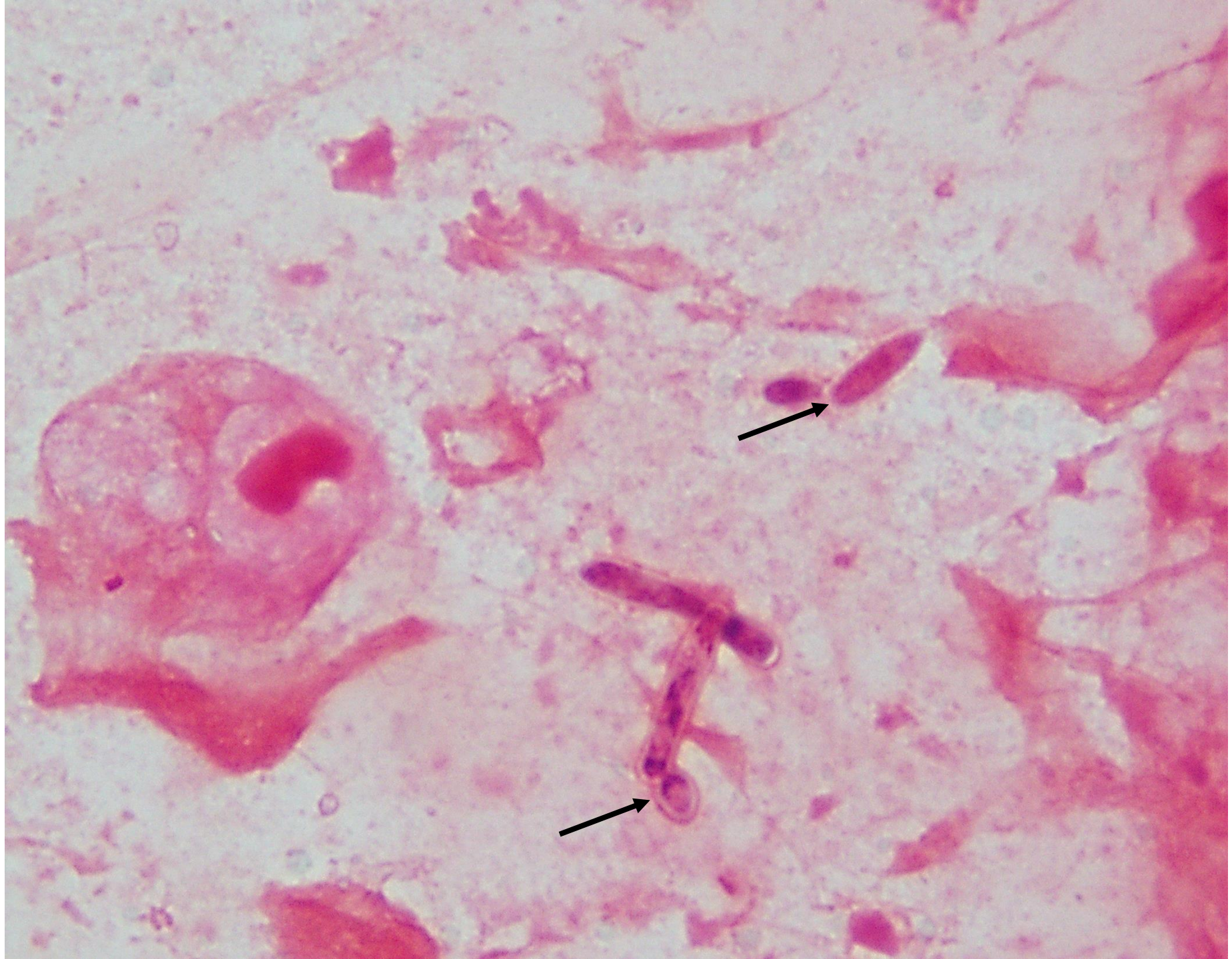


GPDC (encapsulated) viewed on Gram stain; Culture grew *Streptococcus pneumoniae*

Sputum Screen #3; 10x Objective

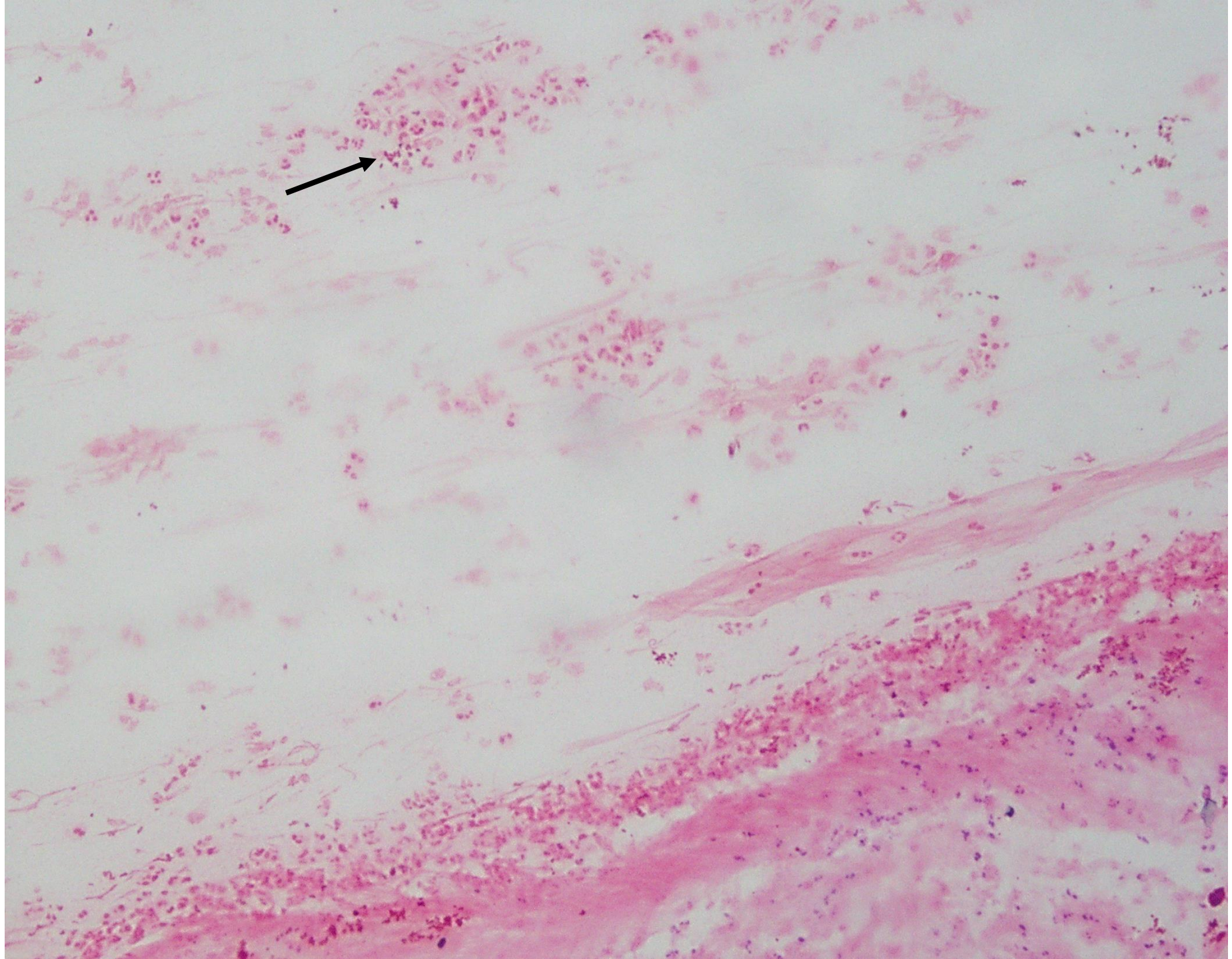


Accepted for culture (WBC, mucous threads);
Go to 100x Oil Immersion

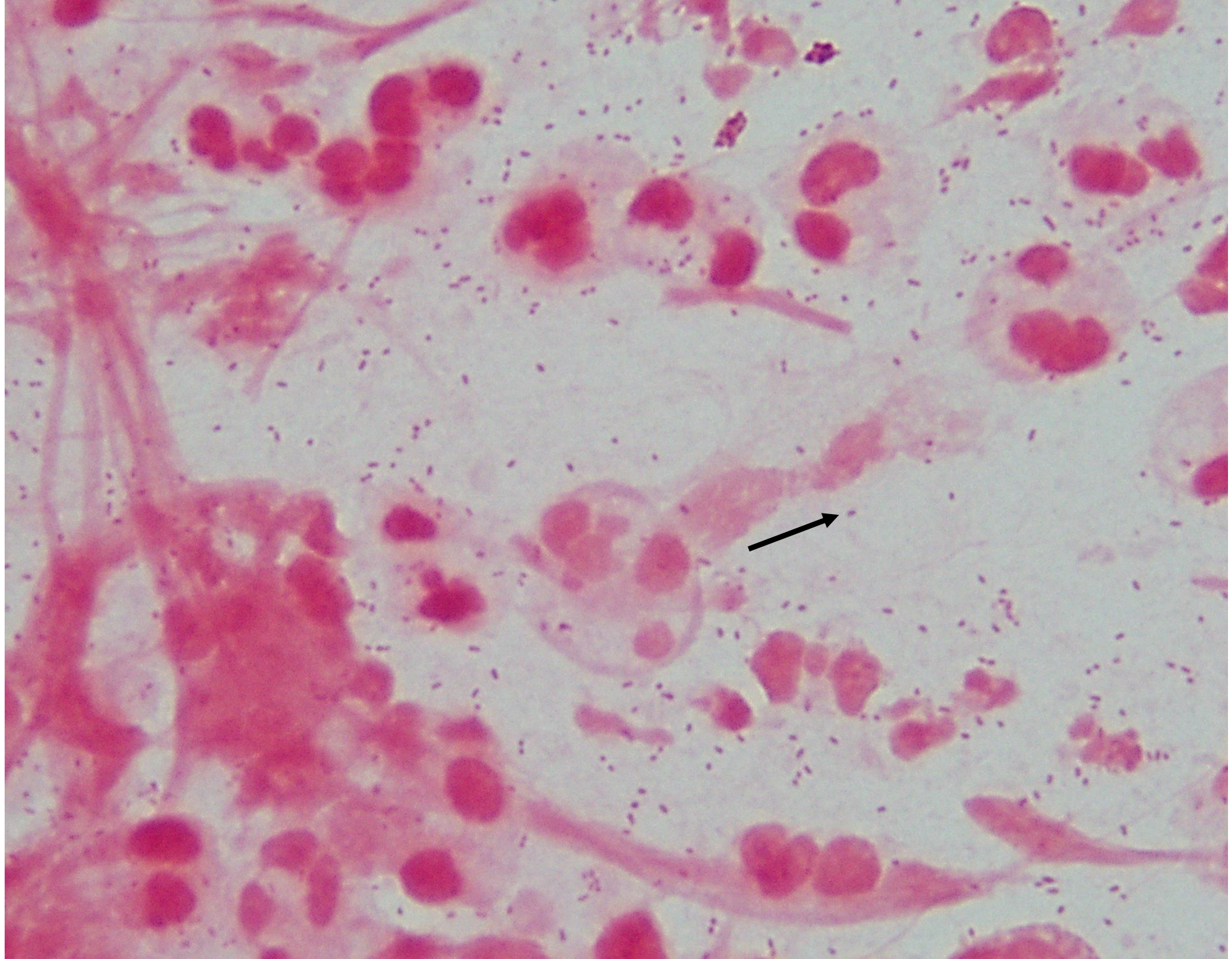


Yeast w/pseudohyphae viewed on Gram stain; Culture grew *Candida albicans*

Sputum Screen #4; 10x Objective

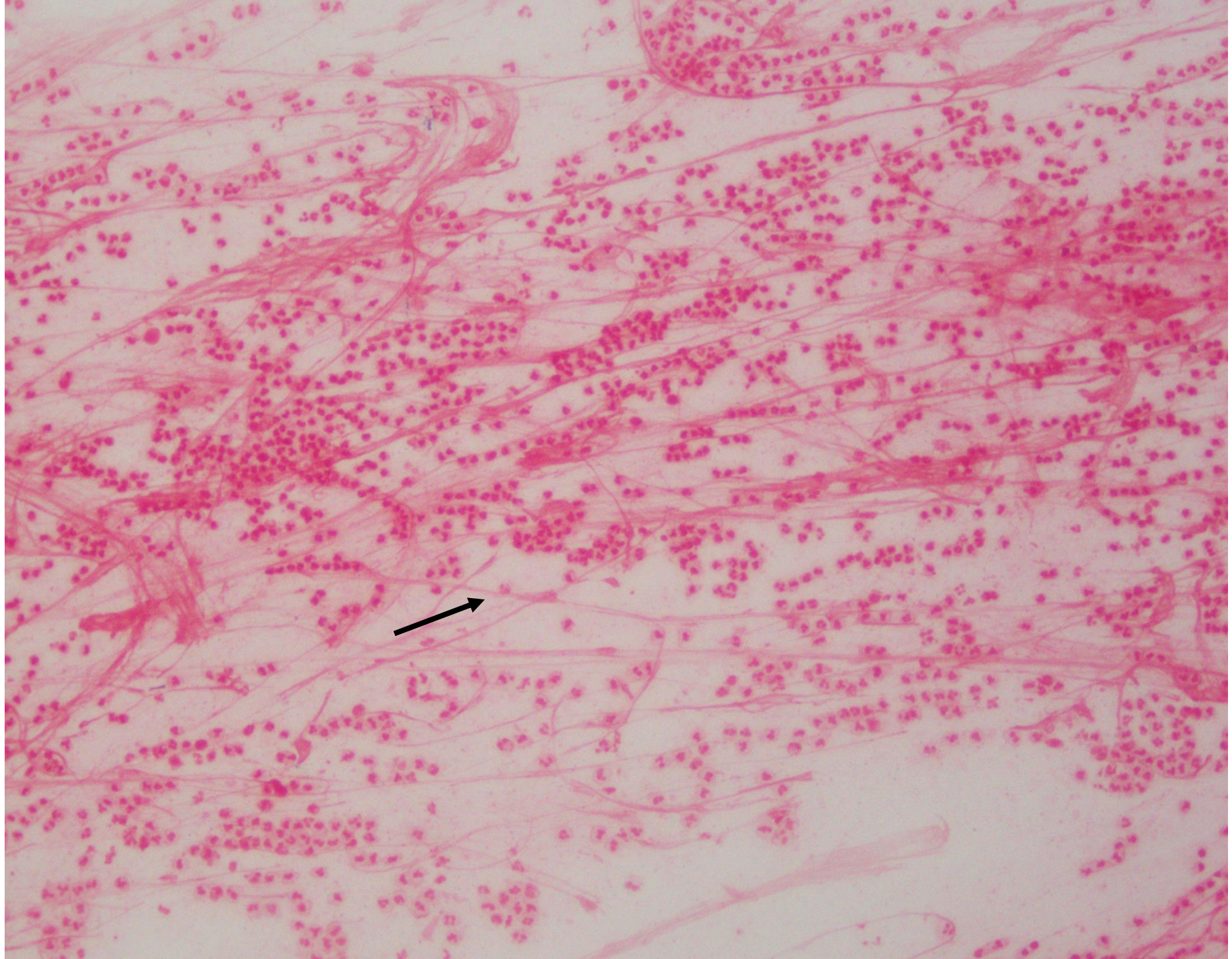


Accepted for culture (predominant WBC);
Go to 100x Oil Immersion

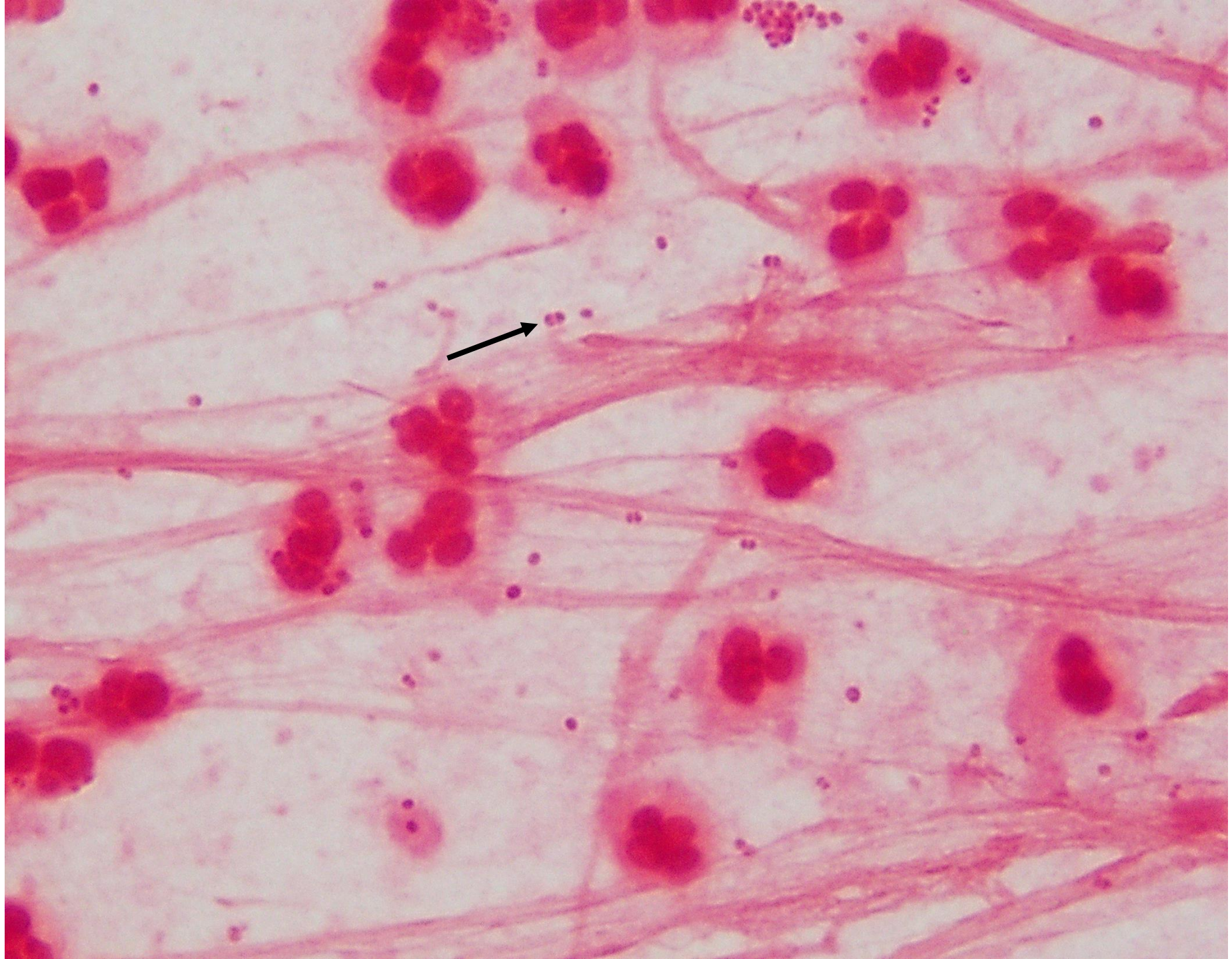


GNCB viewed on Gram stain;
Culture grew *Haemophilus influenzae*

Sputum Screen #5; 10x Objective

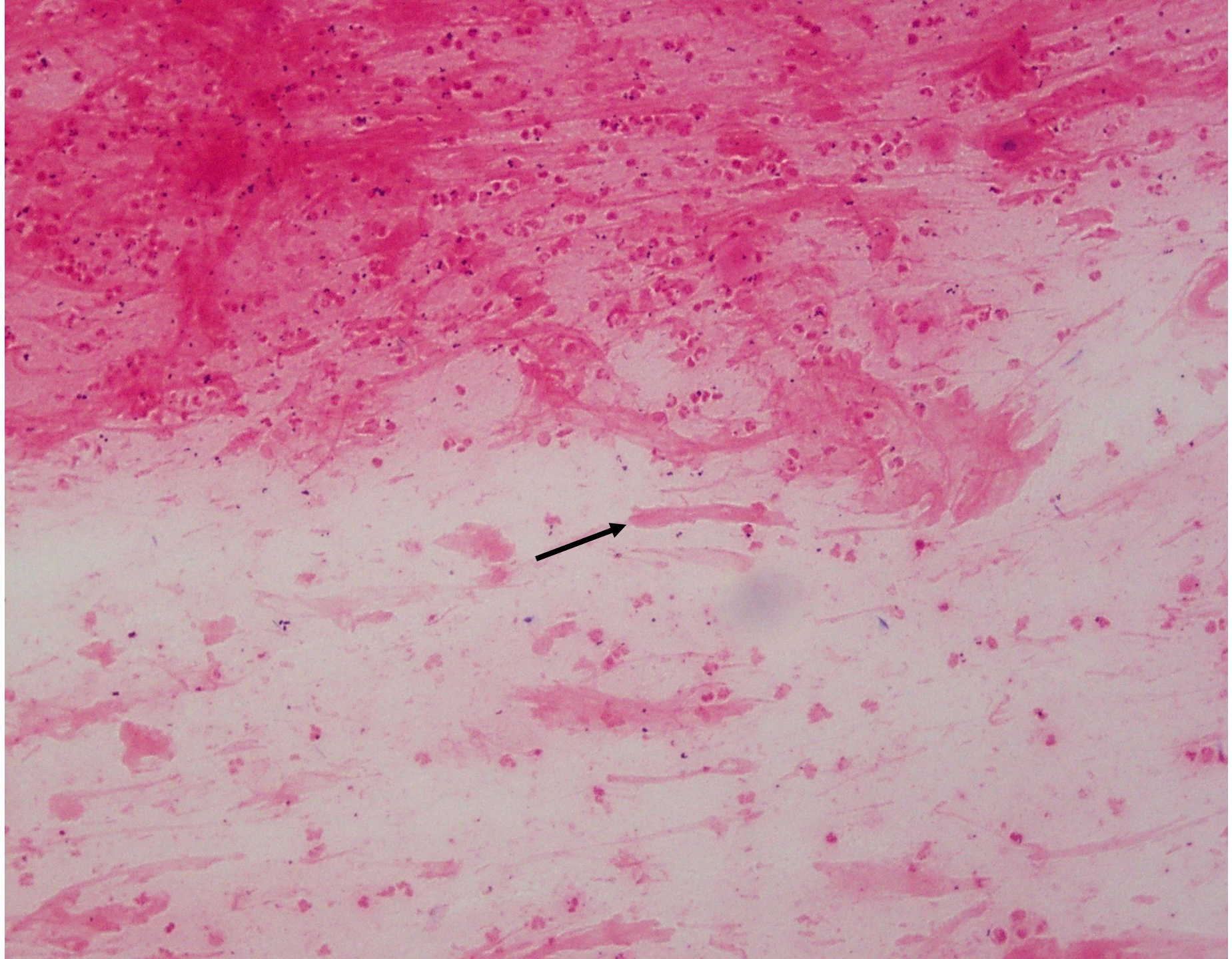


Accepted for culture (WBC, mucous threads);
Go to 100x Oil Immersion

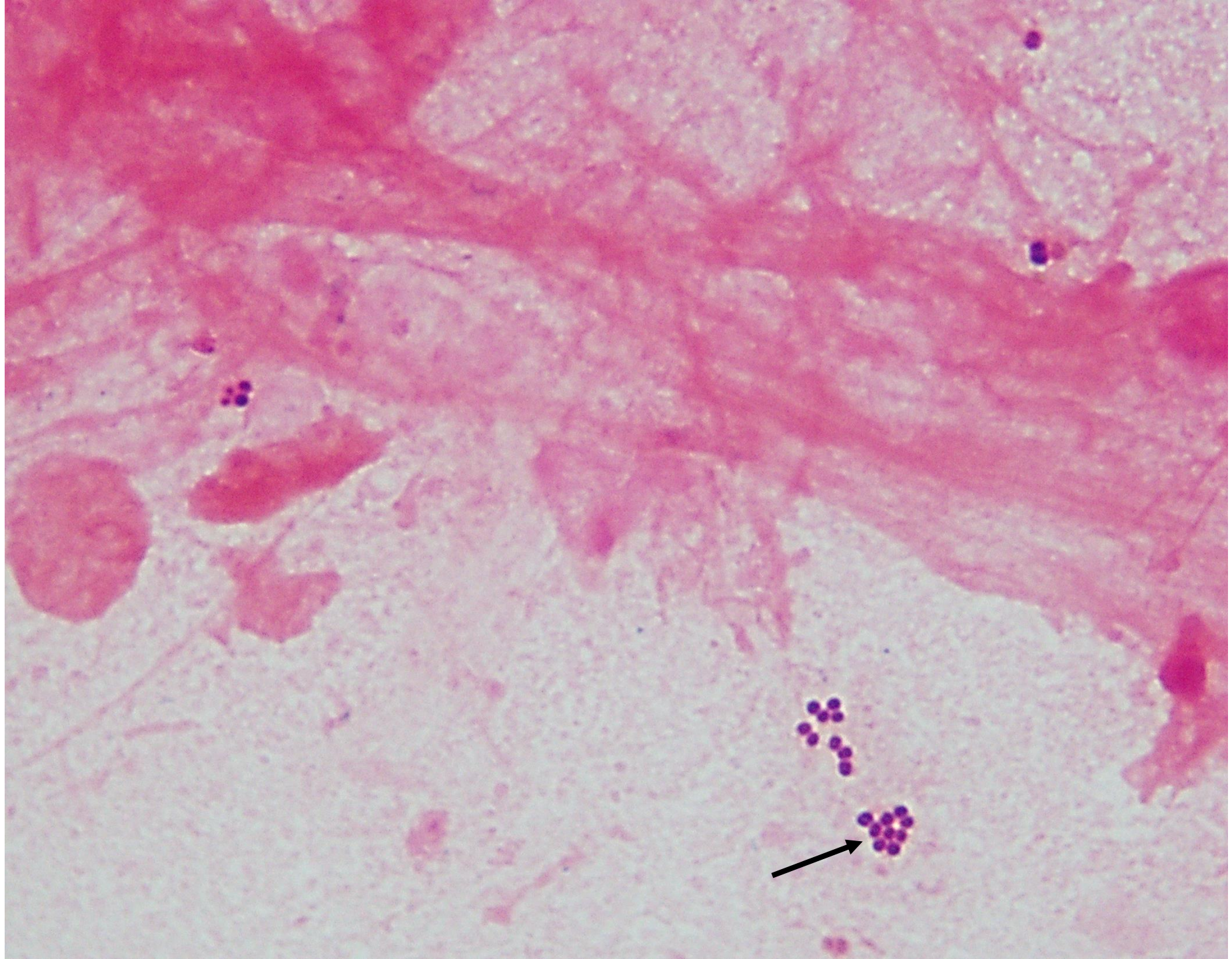


GNDC viewed on Gram stain;
Culture grew *Moraxella catarrhalis*

Sputum Screen #6; 10x Objective

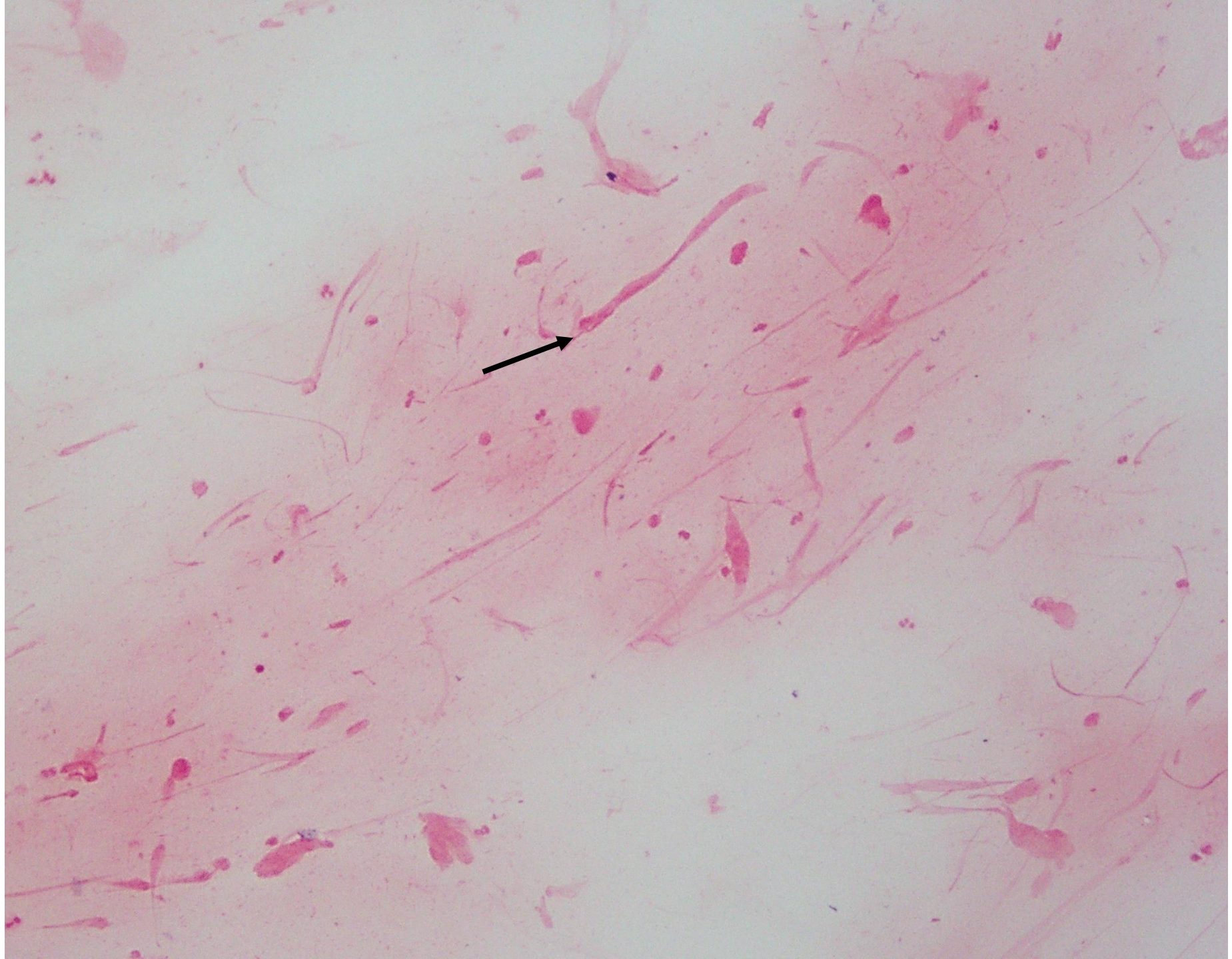


Accepted for culture (WBC, mucous threads);
Go to 100x Oil Immersion

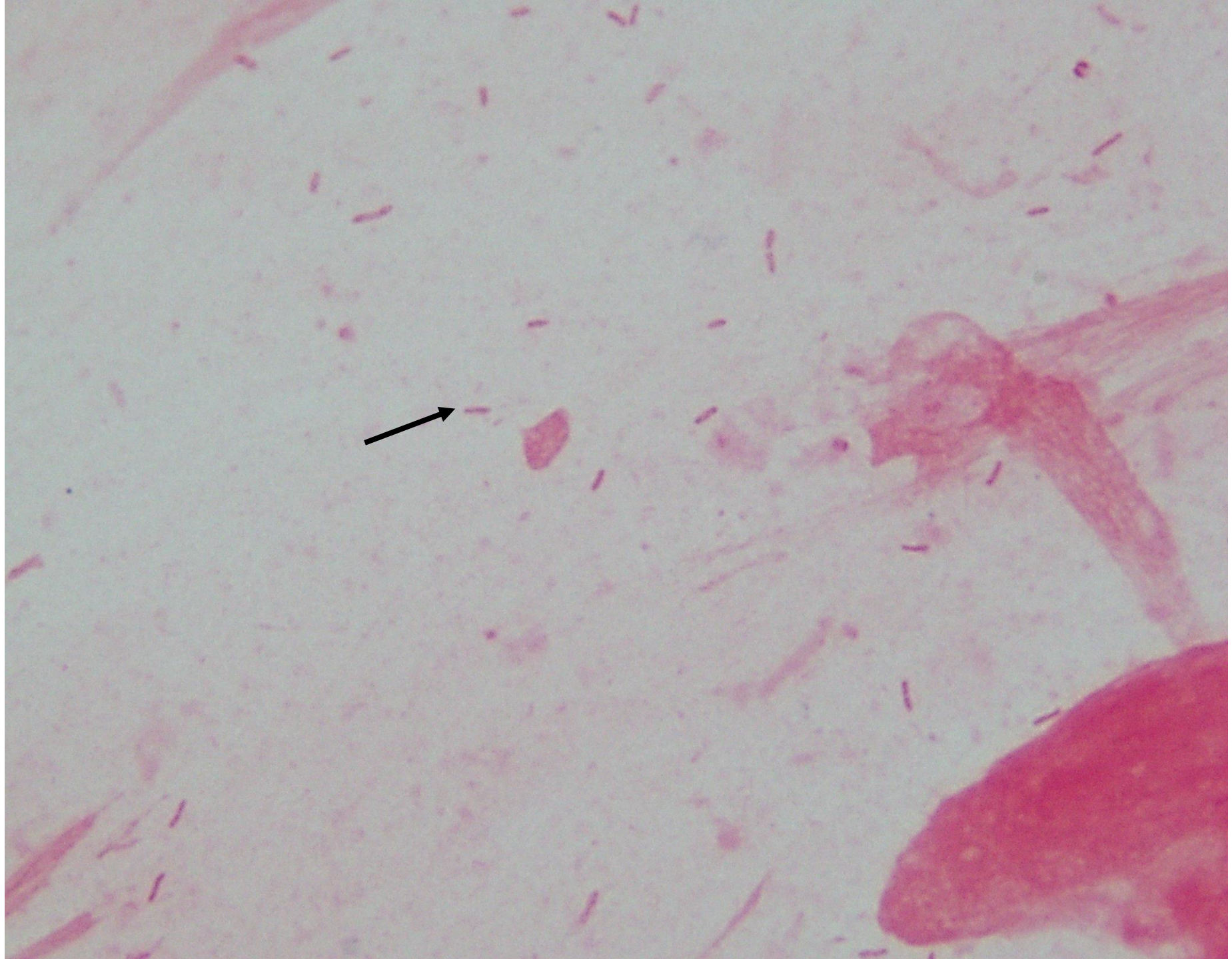


GPC (clusters) viewed on Gram stain;
Culture grew *Staphylococcus aureus*

Sputum Screen #7; 10x Objective

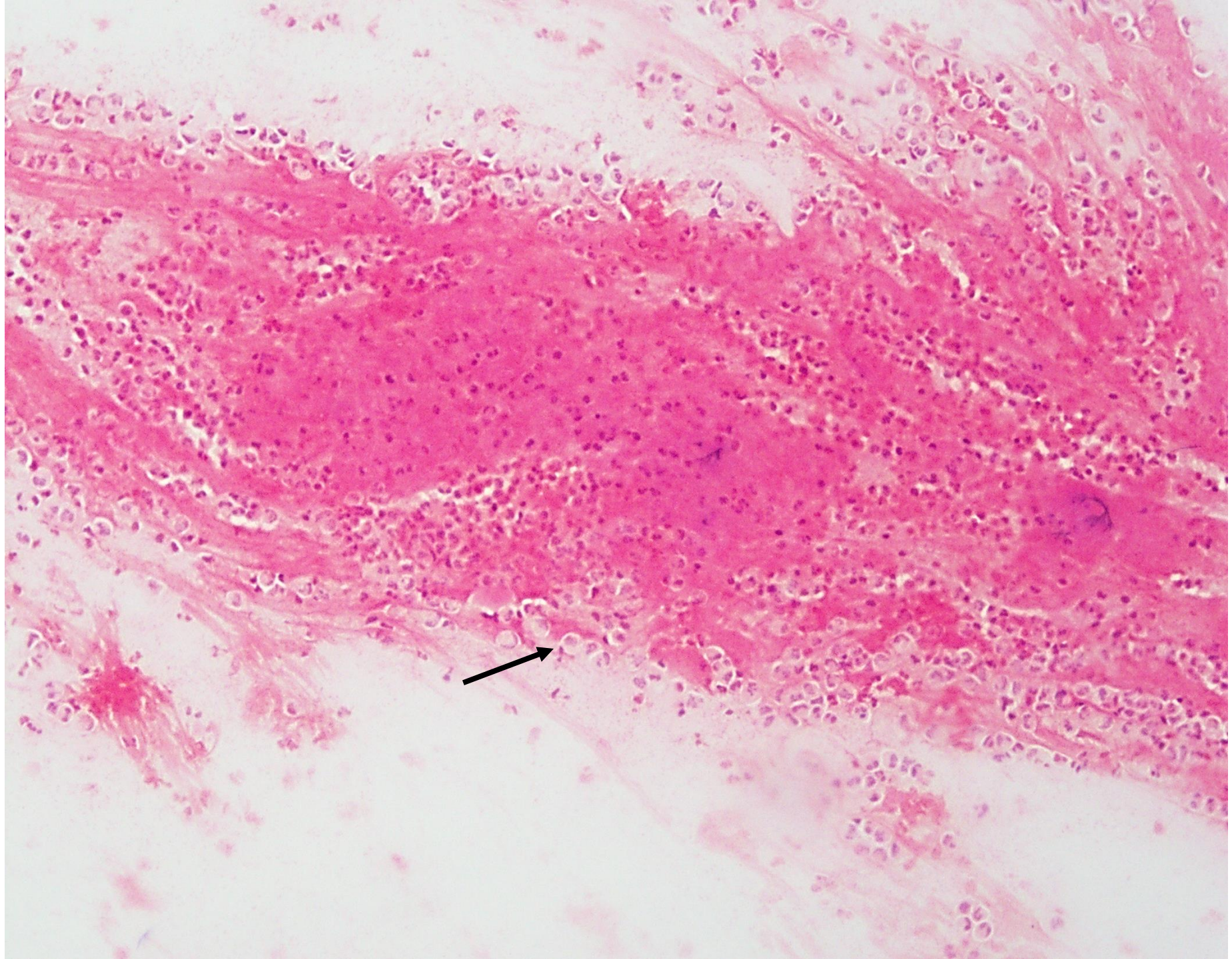


Accepted for culture (WBC, mucus threads);
Go to 100x Oil Immersion

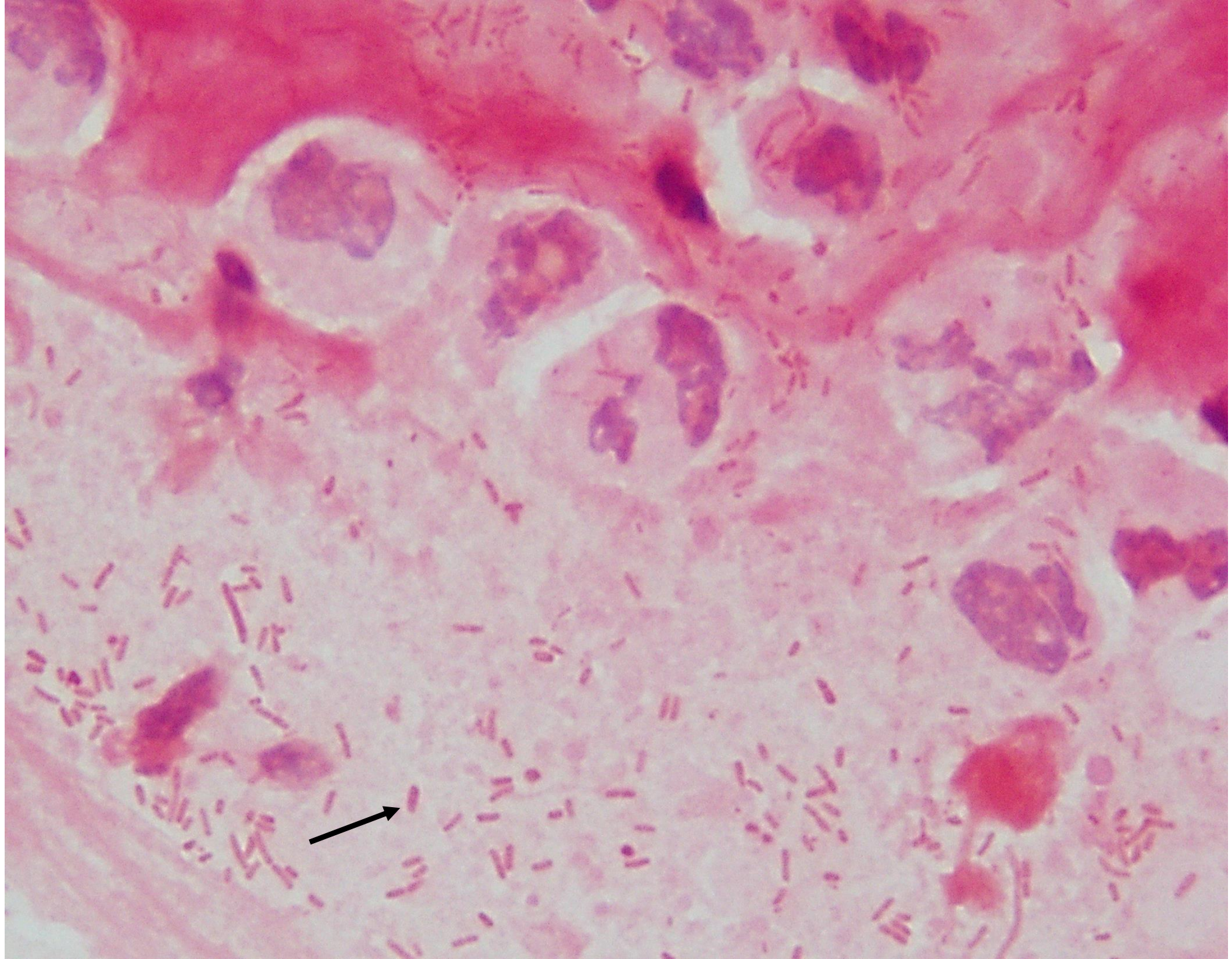


GNB viewed on Gram stain;
Culture grew *Pseudomonas aeruginosa*

Sputum Screen #8; 10x Objective

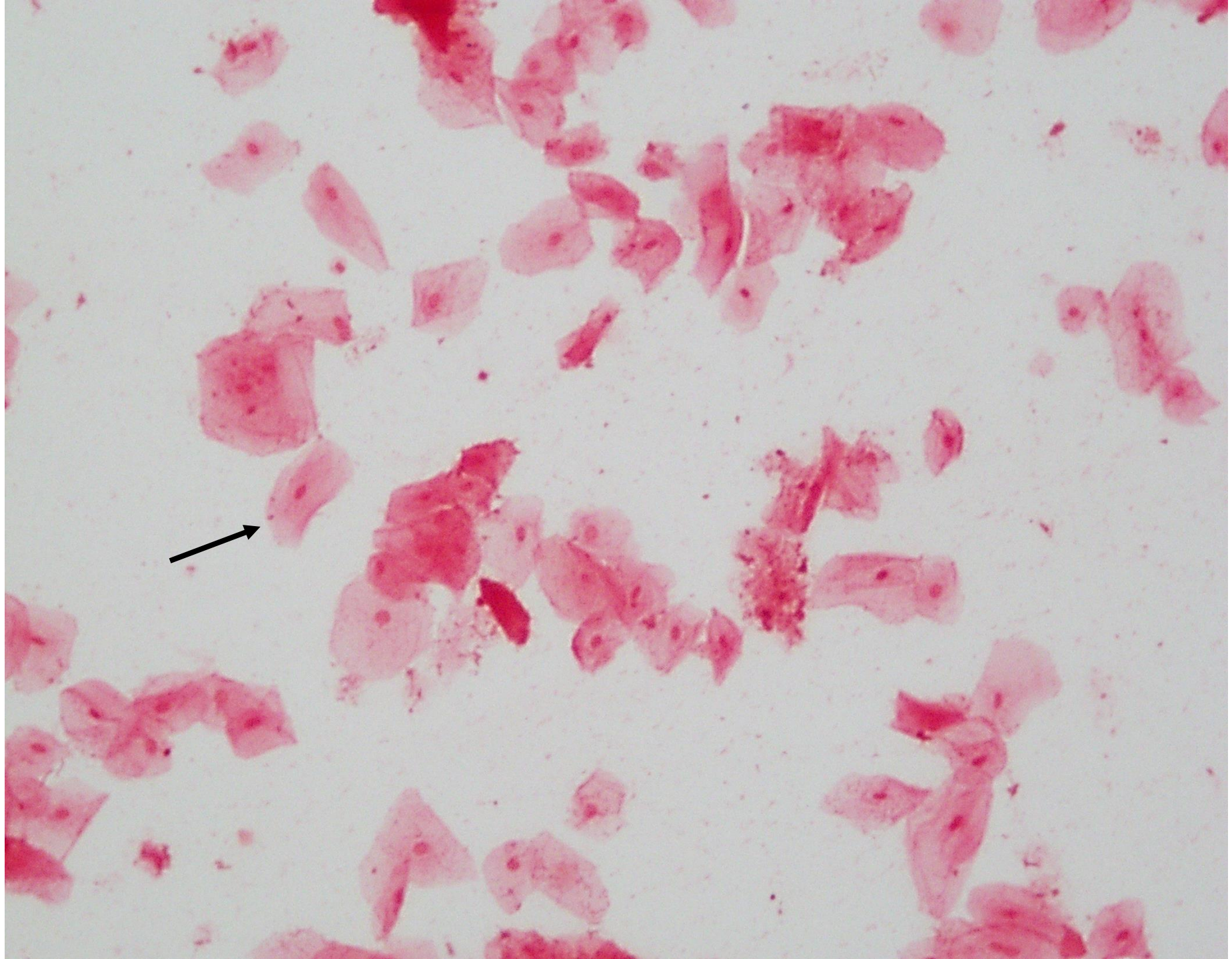


Accepted for culture (predominant WBC);
Go to 100x Oil Immersion



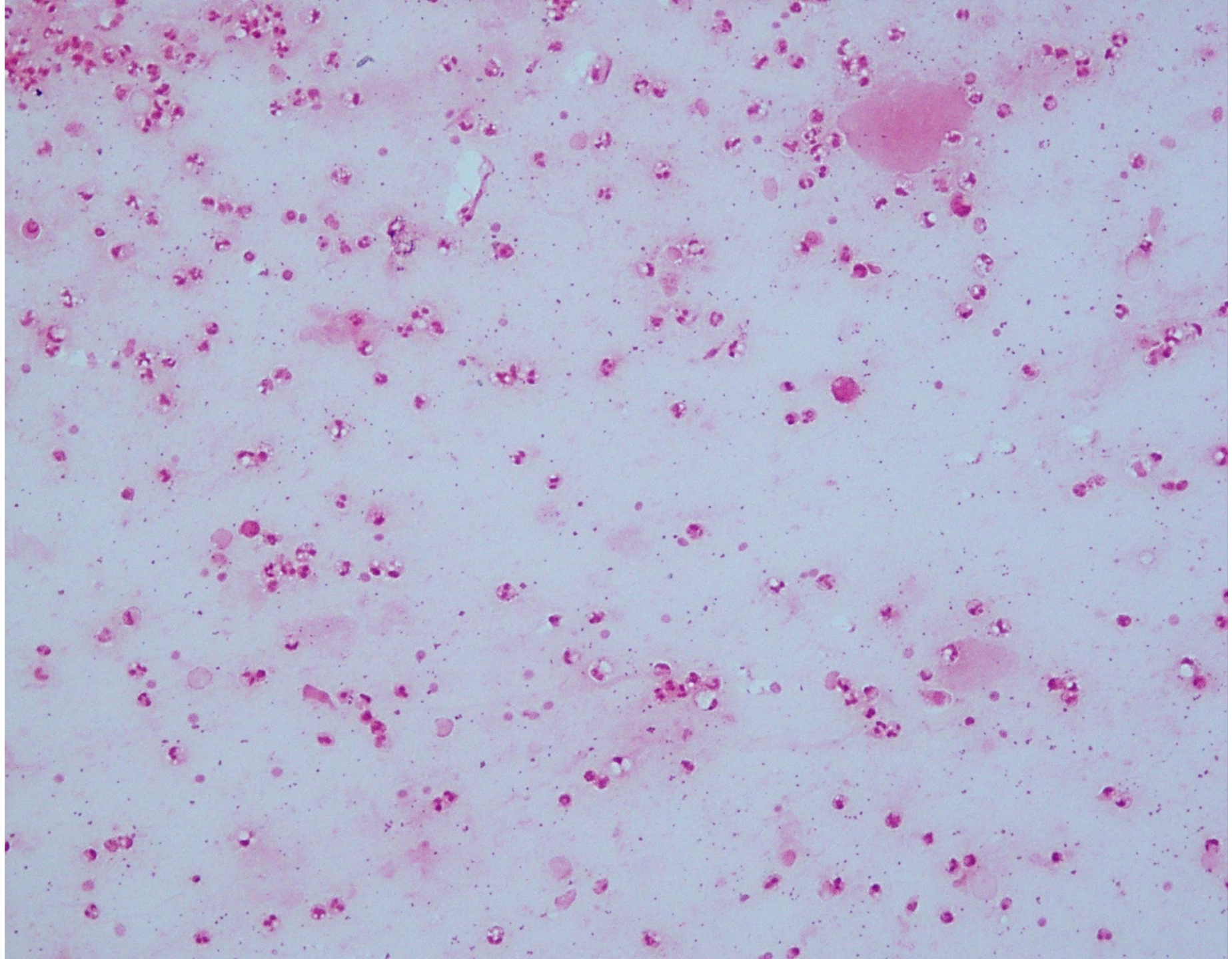
GNB viewed on Gram stain;
Culture grew *Escherichia coli*

Sputum Screen #9; 10x Objective

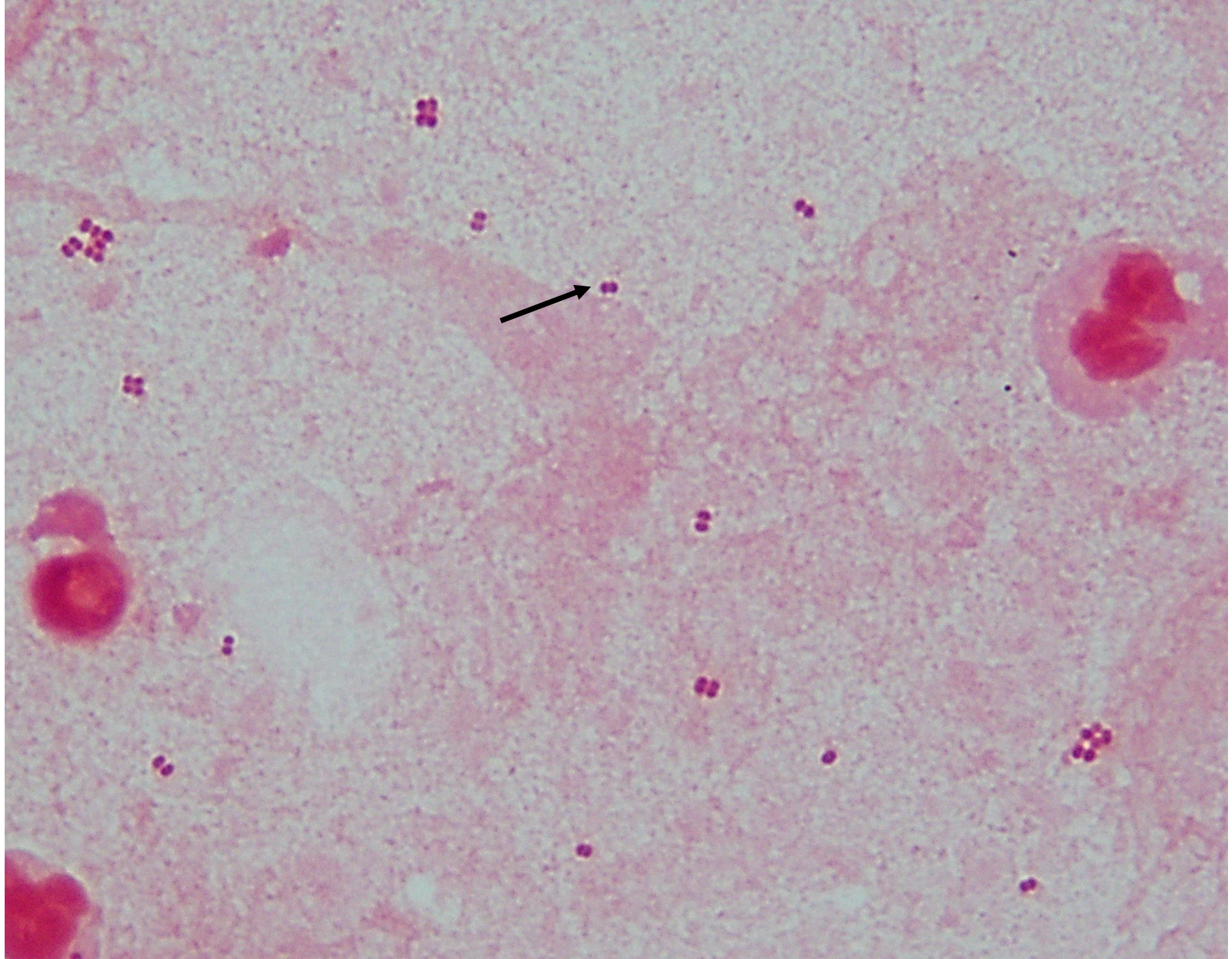


REJECTED FOR CULTURE
(predominant epithelial cells)

Endotracheal aspirate; 10x Objective



Go to 100x Oil Immersion



GNDC viewed on Gram stain;
Culture grew *Moraxella catarrhalis*