Direct Smear Training Guide

Lower Respiratory Tract Specimens

Compiled by:
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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*