

SCIENTIFIC EVIDENCE **RELATED TO SINGLE-USE BRONCHOSCOPES**

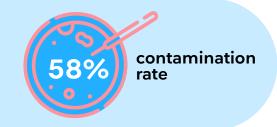
Mehta & Muscarella (2019)

Bronchoscopes may pose an underrecognized potential risk for transmission of Carbapenem-resistant Enterobacteriaceae (CRE) and related Multi-drug resistant organisms. Cases suggest that high-level disinfection of bronchoscopes performed in accordance with guidelines may not be effective in eliminating the risk of CRE transmission from one patient to another. Damaged bronchoscopes increase the risk.



P Ofstead et al. (2018)

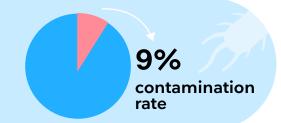
Microbial growth was found in 14/24 fully reprocessed bronchoscopes (58%). After manual cleaning, 100% of bronchoscopes had residual contamination. Microbial growth was found in 14/24 fully reprocessed bronchoscopes (58%), including mold, Stenotrophomonas maltophilia, and Escherichia coli/Shigella species.





@ Gavaldà et al. (2015)

A total of 620 samples were obtained, 56 samples (9%) tested positive for at least one specimen. Of the 56 positive samples, 37 (6.0%) corresponded to alert level 1, 10 (1.6%) corresponded to alert level 2 and 9 (1.4%) corresponded to alert level 3.





Novaleva et al. (2013)

Out of 482 patients, 90 patients showed symptoms of infection (18.7%) following bronchoscopy. Most of the infections were linked directly to a bronchoscope which in most cases caused pneumonia.



20.21% of contaminated patients show symptoms of infection



Mouritsen et al. (2019)

Reusable flexible bronchoscopes (RFBs) entail a risk of patient contamination of 15.3% and results in additional per procedure costs. aScope Broncho costs €332 less per procedure than RFBs. Taking the patient contamination risk into consideration, aScope™ 4 Broncho is cost-effective compared to RFBs.



Infection risk

cost = £511

=2.8%

