

# EQUAL Mucormycosis Score 2018: An ECMM Score Derived From Current Guidelines to Measure **QUALITY** of Mucormycosis Management

Cornely OA<sup>1,2</sup>, Koehler P<sup>1,2</sup>, Mellinghoff SC<sup>1,2</sup>

<sup>1</sup>Department I for Internal Medicine, Excellence Center for Medical Mycology (ECMM), University of Cologne, Germany; <sup>2</sup>CECAD Cluster of Excellence, University of Cologne, Germany

DOI: 10.4126/FRL01-006407808

## Background

The EQUAL Mucormycosis Score 2018 weighs and aggregates factors for ideal management of mucormycosis.

EQUAL Scores reflect the strongest recommendations from current guidelines. The Score Cards are a quick reference to measure guideline adherence and to support antifungal stewardship.

Maximum Score		In case of isolate	In case of biopsy	In case of isolate and biopsy
Diagnosis	11	13	16	18
Treatment			8	
Follow-up			6	
Total	25	27	30	32

## References

1. Cornely et al. *Clin Microbiol Infect* 2014; 2. Tacke et al. *Mycoses* 2014; 4. Koehler et al. *Infect Dis Clin N Am* 2015; 3. Tissot et al. *Haematol* 2017.



UNIKLINIK  
KÖLN

European Confederation of Medical Mycology



Center of Excellence in Clinical and  
Laboratory Mycology and Clinical Studies

## EQUAL Mucormycosis Score 2018

### Diagnosis

Neutropenia >10d or alloHSCT → Mould active prophylaxis

3

72-96h of persistent fever → Chest CT

3

Inversed halo

– CT/MR staging: Head, neck, abdomen

2

– Inversed halo → BAL

– Direct microscopy, preferably using optical brighteners

1

– Culture

1

– Fungal PCR (pan, *Aspergillus*, Mucorales)

1

Microbiological test results negative → Biopsy

– Tissue culture

2

– Histopathology

2

– Molecular-based tests on fresh clinical material or embedded tissue

1

Isolate grows → Identification to species level and susceptibility testing

2

### 1<sup>st</sup> line Treatment

Surgical debridement

2

with microscopically clear resection margins

1

L-AmB ≥5 mg/kg/d or

3

Isavuconazole with TDM or posaconazole with TDM

2

Control of risk factors: Neutropenia, hyperglycaemia, ketoacidosis, corticosteroids

2

### Follow-up

CT scan on day 7

2

CT scan on day 14

2

Weekly CT scan until improvement

2