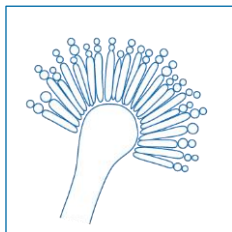


EQUAL Aspergillosis Score 2018: An ECMM Score Derived From Current Guidelines to Measure **QUALITY** of Clinical Invasive Pulmonary Aspergillosis Management

Cornely OA^{1,2}, Köhler P^{1,2}, Mellingshoff SC^{1,2}

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

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Background

The EQUAL Aspergillus Score weighs and aggregates factors for ideal management of invasive pulmonary aspergillosis. 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	If positive culture	If refractory disease	If positive culture and refractory disease	
Diagnosis	10	12	13	15
Treatment		5		
Follow-up		7		
Total	22	24	25	27

References

1. Patterson et al. *Clin Infect Dis* 2016; 2. Liss et al. *Mycoses* 2015; 3. Vehreschild et al. *Eur Radiol* 2017; 4. Ullmann et al. *Clin Microbiol Infect* 2018.



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EQUAL Aspergillosis Score 2018

Diagnosis

Neutropenia >10d or alloHSCT → mould active prophylaxis or GM screening 2-3x/week

3

72-96h of persistent fever → CT scan

3

Lung infiltrate → BAL

- Galactomannan
- Direct microscopy incl. fluorescent dyes: Calcofluor white, Uvitex 2B, or Blomophor
- Culture
- Fungal PCR (pan, Aspergillus, Mucorales)

1

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Aspergillus grows in culture

- Identification to species level
- Susceptibility testing

1

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Refractory cases → histology

- Silver stain
- PAS
- Visible hyphae → molecular diagnostics

1

1

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Treatment

1st-line treatment:

- Isavuconazole or voriconazole or – after prior mould prophylaxis – liposomal amphotericin B or caspofungin
- Voriconazole without TDM (target trough range 1-5.5mg/L)

5

-1

Follow-up

- CT scan on day 7
- CT scan on day 14
- CT scan on day 21 or 28

2

3

2