Supplemental table. ICU-, microbiological- and histopathological characteristics of COVID-19 patients in which probable or proven COVID-19 associated pulmonary aspergillosis was diagnosed during ICU-admission.

| Antifungal prophylaxis | APACHE-IV | | ICU- admission day start IMV ^a | ICU- admission day a first <i>Aspergillus</i> was cultured | ICU- admission day first BAL | BAL GM OD | Aspergillus RT-PCR on BAL | Tracheo- bronchial plaque(s) | of a biopsy sample | | Proven invasive CAPA | Days admitted to ICU | 90 days Outcome |
|---------------------------|-----------|----|---|--|------------------------------------|-----------|---------------------------------|------------------------------------|--|-----------------------|----------------------|----------------------------|-----------------------|
| No | 72 | 15 | 1 | 6 | 9 | 5.88 | | Yes | Fungal hyphae, no tissue invasion | Positive | Yes | 43 | Deceased ^d |
| No | 83 | 7 | 2 | 5 | 7 | 4.74 | | Yes | Fungal hyphae with tissue invasion | | Yes | 12 | Deceased |
| No | 72 | 8 | 1 | 6 | 9 | 7.25 | | Yes | | | No | 17 | Deceased |
| No | 117 | 7 | 1 | 2 | 3 | 5.65 | | Yes | Fungal hyphae, no tissue invasion | Negative ^c | No | 16 | Deceased e |
| No | 82 | | 1 | 5 | 7 | 6.82 | | Yes | | | No | 25 | Alive |
| No | 81 | 10 | 1 | 8 | 8 | 0.14 | | Yes | Fungal hyphae with tissue invasion | Positive | Yes | 18 | Alive |
| No | 77 | 6 | 2 | 6 | 9 | 6.01 | | Yes | | | No | 22 | Alive |
| No | 53 | 7 | 2 | 7 | 10 | 1.50 | | No | | | No | 54 | Alive |
| No | 56 | 11 | 6 | | 12 | 1.13 | Negative | No | | | No | 33 | Alive |
| No | 100 | 13 | 1 | 5 | 8 | 3.97 | Positive | No | | | No | 33 | Alive |
| Yes | 69 | 13 | 1 | | 12 | 5.13 | Negative | No | | | No | 34 | Deceased ^f |
| Yes | 58 | 12 | 11 | 10 ^b | 10 | 0.33 | Positive | No | | | No | 28 | Alive |
| Yes | 60 | 8 | 2 | 2 ^b | 6 | 3.76 | | Yes | No signs of inflammation | Negative | No | 50 | Alive |

 $[^]a$ = start antifungal prophylaxis in those who received antifungal prophylaxis; b = sputum cultured before or at the initiation of invasive mechanical ventilation; c = PCR performed on lung biopsy obtained at autopsy, as tissue sample of tracheobronchial plaque that was obtained earlier during bronchoscopy appeared ineligible for RT-PCR. d = autopsy revealed disseminated mucormycosis infection of kidneys, left lower pulmonary lobe and bladder e = autopsy revealed organizing pneumonia in left pulmonary lobe without fungal hyphae, two weeks after treatment with systemic antifungal therapy f = Patient died with a cryptogenic organizing pneumonia and central pulmonary embolus.

Abbreviations: APACHE = Acute Physiologic Assessment and Chronic health Evaluation; ICU = Intensive Care Unit; BAL = Broncho Alveolar Lavage; GM = Galactomannan; OD = Optical Density; RT-PCR = Real Time reverse Polymerase Chain Reaction