**Supplementary Material**

**Future directions**


Patient characteristics
- Demographics: age and gender
- Prior non-cardiac chronic conditions including diabetes (insulin-dependent), chronic renal and pulmonary disease, and arterial hypertension
- Risk factors: IV drugs, immune suppression, prior valve implant or electronic cardiac device

Disease characteristics
- The type of fungus and possible resistance against antifungal agents
- The diagnostic delay in days (start of symptoms to start of effective treatment)

Cardiac involvement and effect on the circulation
- Number of valves involved
- Paravalvular extension, abscess, fistula
- Non-valvular cardiac manifestation
- Congestive heart failure (NYHA functional class), cardiogenic shock, need for ECMO, IABP, pulmonary arterial hypertension

Extracardiac complications
- Recent stroke with or without hemorrhagic transformation
- Brain abscess
- Other emboli (limb, mesentery, spleen, liver, lungs)
- New renal function decrease (with the distinction between the effect of IE or medication), need for dialysis

Treatment
- Medical treatment (type of antifungal medication) and resistance
- Number and type of surgical procedures on the heart