

## Poster: 2113

### Introduction

- Infective Endocarditis (IE) Is a serious complication of blood stream infections (BSI) often requiring a transesophageal echocardiogram (TEE) for diagnosis and prolonged course of IV antibiotics.
- Patients with hematologic malignancies frequently develop neutropenic fever from BSI with high-risk organisms (e.g. Streptococcus spp.), but IE is rare amongst this population.
- Given the paucity of data on this topic, we evaluated the rate of IE amongst patients with hematologic malignancies at the University of Wisconsin (UW).

### Methodology

- Retrospective cohort study.
- Inclusion criteria
  - Adult patients (≥18 years)
  - Admitted to hematology ward at UW Jan '18 Dec '20
- $\geq$  1 positive blood culture at UW in 5 day window before/after admission
- Exclusion criteria
  - Isolate was not typical organism of endocarditis (i.e. Strep spp., Staph spp., Granulicatella spp., Gamella spp., Facklamia spp., Enterococcus spp., HACEK, Fungi). Coxiella burnetiid serology were not included.
  - Contaminants meeting three criteria: only one set of cultures, coagulase negative Staph spp. or Strep mitis/oralis, and treated as contaminant by treatment team.
- Polymicrobial BSI: ≥2 organisms isolated on same day (excluding contaminants)
- Unique BSI: cultures separated ≥1 day growing distinct organisms
- Neutropenia at any point during admission (ANC <500 cells/uL)
- Rejected/Possible/Definite IE cases defined by Modified Duke's Criteria
  - Definite cases reviewed by two authors independent of initial data collection
  - Possible cases reviewed up to 90 days after discharge for readmission, repeat positive blood cultures, suspected IE, stroke, brain abscess, meningitis, new heart failure, valvular disease, pulmonary embolism, mycotic aneurysm, renal abscess, splenic infarction, osteomyelitis, septic arthritis, glomerulonephritis

# Infectious Endocarditis in Patients with Hematologic Malignancy at the University of Wisconsin

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\*Rare BSI: Rhodotorula mucilaginosa and Trichosporon asahii

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- utility of TTE during neutropenic fever.