CAMERA2
TRIAL:
POST
HOC ANALYSIS
OFID 30JAN 2025

ASSOCIATION OF DAILY BODY
TEMPERATURE, WHITE BLOOD CELL
COUNT AND C-REACTIVE PROTEIN WITH
MORTALITY & PERSISTENT BACTEREMIA
IN PATIENTS WITH STAPHYLOCOCCUS
AUREUS(SAB) BACTEREMIA

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RESEARCH QUESTION

Staphylococcus aureus bacteremia is associated with significant morbidity and mortality.

- 1. What are the associations between daily body temperature, C-reactive protein (CRP), and white blood cell count (WBC) and clinical outcomes of persistent bacteremia and mortality?
- 2. Whether these variables should be used in risk stratification algorithms?

METHODS

- Prospective collection of daily body temperature and peripheral blood WBC and CRP of enrolled hospitalized adult patients with MRSA bacteremia (n=345).
- 2. Evaluation of the prognostic relevance of each parameter by calculating crude and adjusted odds ratios for 90- day allcause mortality comparing patients with the abnormal parameter of interest vs those with normal parameters on each day of illness.

RESULTS

- 1. 63 (18.3%) died within 90 days.
- 2. Fever (body temperature ≥38.0) was associated with increased odds of 90-day mortality from day 4 and onwards.
- 3.Fever later in the illness course was associated with higher adjusted odds of mortality (aOR 8.78, 95% CI 2.78–27.7 on day 7 vs aOR 3.70, 95% CI 1.58–8.67 on day 4).
- 4.In contrast, CRP and abnormal WBC count did not demonstrate a consistent or temporal association with mortality.

4 CONCLUSION

Persistent fever after 72 hours is associated with increased mortality in patients with MRSA bacteremia, supporting recommendations that this should be kept as a criterion for classifying patients as either "high-risk" or "complicated".

However, there is limited additional predictive value in WBC or CRP.