II.

AIMS AND OBJECTIVES
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The aim of the present study is to isolate, speciate the enterococci from various clinical specimens and evaluate different methods for antibiotic susceptibility testing (HLAR and VRE), providing simple and accurate method for diagnosis and better regimen for treating the critical patients.

OBJECTIVES

1. To isolate enterococci from various clinical specimens.

2. To speciate *Enterococcus species* by various biochemical tests.

3. To confirm the rare, doubtful and unidentified isolates by Vitek 2 automated method.

4. To study antibiogram by Kirby Bauer’s disc diffusion method.

5. To determine minimum inhibitory concentration (MIC) by using agar dilution method for selected antibiotics.

6. To detect the penicillinase (β-lactamase) production.

7. To compare susceptibility to penicillin and penicillin combination with penicillinase inhibitors.
8. To evaluate different methods for detection of vancomycin resistant enterococci.

9. To evaluate different methods for detection of high level aminoglycoside resistance.

10. To detect the antibiotic synergism between penicillin and aminoglycoside.