

CME Credit Application Form

(1 CME credit)

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1. Educational questions. Answer by marking the correct answer.

1. Which of the following statements is true?

- Hydrolysis of penicillin by a penicillinase is the major mechanism responsible for methicillin resistance in methicillin-resistant *Staphylococcus aureus* (MRSA).
- In vancomycin-resistant *S. aureus*, resistance to vancomycin is due to the presence of altered penicillin-binding proteins with reduced affinity for the antibiotic.
- The acquisition of a new penicillin-binding protein (PBP2a) causes methicillin resistance in MRSA.

2. Which of the following typing methods is not currently used for MRSA strains?

- Typing based on sequences of the repeat region of protein A (*spa* type).
- Profiles of bands obtained by pulsed-field gel electrophoresis following digestion of chromosomal DNA.
- Detection of the principal toxins produced by the strains (toxintype).
- Characterisation of the *SCCmec* element by multiple PCR (*SCCmec* typing).

3. Which of the following statements is true?

- MRSA bacteraemias are associated with significantly higher mortality than methicillin-susceptible *S. aureus* (MSSA) bacteraemias.
- MRSA pneumonias are associated with higher mortality than MSSA pneumonias.
- MRSA is more commonly isolated from community-acquired pneumonia than from healthcare-associated pneumonia.
- Decreased susceptibility to vancomycin does not represent a therapeutical problem for MRSA pneumonia.

4. Which of the following statements is not true?

- Community-acquired (CA)-MRSA is usually more susceptible to non- β -lactam antibiotics than hospital-acquired MRSA.
- CA-MRSA often carries a phage-encoded leukocidin (Panton-Valentine toxin) that may contribute to infection pathogenesis.
- The most common presentation of CA-MRSA infection in young patients is necrotising pneumonia.
- CA-MRSA is becoming a leading cause of skin and soft tissue infection in the community.

5. Which of the following characteristics is not a risk factor for MRSA carriage/infection?

- Being an MSSA nasal carrier living in the community.
- Being subjected to haemodialysis as an outpatient.
- Being a nursing home resident.
- Working as a veterinarian in a pig farm.

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CME Credit Application Form (continued)

2. Applicant personal details.

Reference No: ERS Membership No. (if known):

Date of Birth (DD/MM/YYYY):

Family Name: First Name:

Mailing Address:

Postal Code: City: Country:

Telephone: + E-mail:

3. Payment details.

I agree for payment of £30 (pounds sterling) to be taken from my credit card (MasterCard and Visa only). Details are as follows:

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