

Model Answer. Admin Question August 2022

You are a newly qualified emergency physician working in a metropolitan adult/paediatric ED.

Your Director of Emergency Medicine has advised that in the last month, there have been 3 cases of *staphylococcus aureus*-associated bacteraemia (SAB) arising in patients who have had peripheral IV cannulas inserted in ED.

She has asked you to lead a quality improvement project in the ED to reduce the incidence of SABs arising from peripheral IV cannulas.

1. State four (4) stakeholders you would involve in your working group. (4 marks)

- I. ED medical staff – SMS or trainees
- II. ED nursing staff – educators, clinical representatives
- III. Infection prevention / infectious diseases
- IV. Any of the following (or other reasonable stakeholder), eg.
 - Consumer
 - Quality/redesign support
 - Ambulance (pre-hospital IV)
 - Public affairs (communications, promotional campaigns)
 - Supply/equipment/procurement

2. State four (4) steps you would undertake to lead this improvement work (4 marks) Am looking for knowledge of the PDSA cycle, with examples of actions in each broad category. Eg 1 mark for a 'plan' type step,

- I. Plan – review data, benchmark, plan interventions
- II. Do – develop guidelines, implementation resources, training
- III. Study – review results, seek feedback
- IV. Act – implement and evaluate, audit outcomes

3. State four strategies you would implement to reduce the incidence of IV-cannula related staph bacteraemia in the ED (4 marks)

Any of the following specific interventions or equivalent

One mark per line; 1st strategy in each line will be accepted

- i. Hand hygiene or aseptic technique training/auditing
- ii. Standardise IV/ blood equipment trolleys /equipment
- iii. Reduce unnecessary IV cannula insertion
- iv. Resite pre-hospital IVs
- v. Competency assessment/credentialing of staff undertaking insertion
- vi. Education resources & guidelines
- vii. Audit outcomes
- viii. Aseptic technique training/credentialing
- ix. Date/time all IVs. Remove or resite after 72 hours