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FACEM practice exam 2022/2

Question 15

Quality improvement - PIVC

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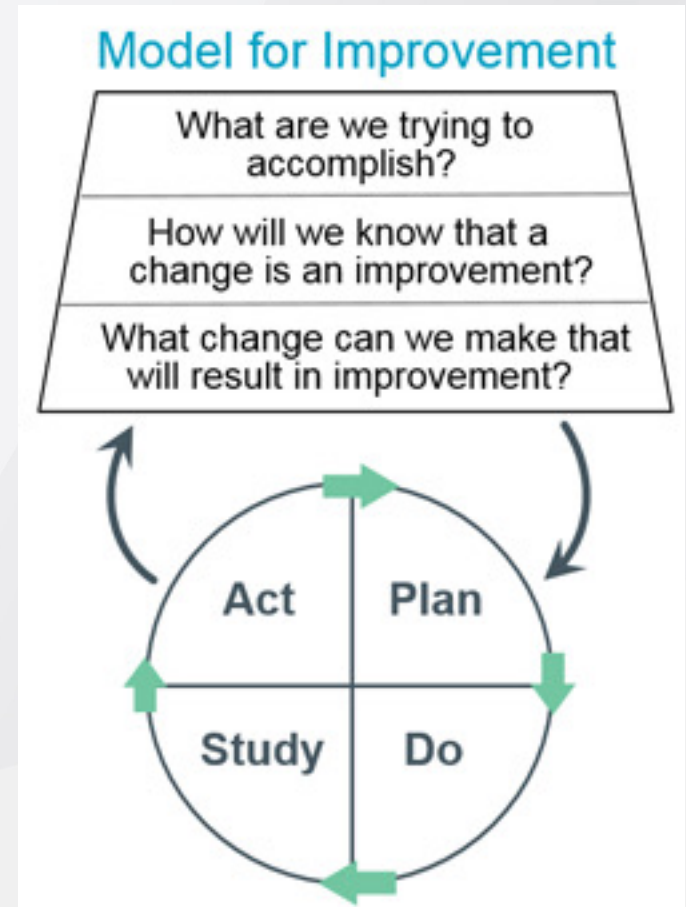
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Further information



www.safetyandquality.gov.au



www.ihl.org

Question 15 – 12 Marks

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.

Terms

ED Director = Project (Executive) Sponsor

You = Project Lead/manager

Stakeholder = those impacted/affected by your improvement project

- **Internal – within your department/team**
- **External - other areas of the hospital; outside the hospital**
- **Always consider a consumer**

15.1

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

One per category

- 1. ED medical staff – SMS or trainees**
- 2. ED nursing staff – educators, clinical representatives**
- 3. Infection prevention / infectious diseases**
- 4. 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

Generally unit heads/senior managers may be too busy to participate in working groups.

15.2

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,

- 1. Plan – review data, benchmark, plan interventions**
- 2. Do – develop guidelines, implementation resources, training**
- 3. Study – review results, seek feedback**
- 4. Act – implement and evaluate, audit outcomes**

15.3

**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**
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- i. Hand hygiene or aseptic technique training/auditing**
 - ii. Standardise IV/ blood equipment trolleys /equipment**
 - iii. Reduce unnecessary IV cannula insertion**
 - iv. Re-site pre-hospital IVs**
 - v. Competency assessment/credentialing of staff undertaking insertion**
 - vi. Education resources & guidelines**
 - vii. Audit outcomes**
 - viii. Aseptic technique training/credentialing**

Common errors

- 1. Listing one stakeholder group multiple times - eg ED Director, ED DEMENT,**
- 2. Only doing review/plan actions. Eg
Review data, benchmark, seek feedback**
- 3. Managing this is an incident investigation – you are not being asked to do an
incident investigation.**
- 4. Only focusing on education as a strategy**

Summary

Pass mark = 7 / 12

Pass rate = 69.2 %

Good luck everyone!