Handwashing, Gloving & Gowning

Practical Skills Teaching

Year 2 Medical Students
MB BCh

2013 - 2014
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Introduction to workshop

Welcome!

Thank you for agreeing to participate in Year 3 Practical Skills Teaching.

The workshop outcomes for the students are to learn the skills required to handwash, glove and gown appropriately. These skills are essentially important to reduce the risk of infection.

At the end of the workshop we will be asking you to complete evaluation forms. Please give as much information as you can, as we will use this data to develop the workshop for 2014/15.

Just as a reminder, more information about this skill is found at the Clinical Skills Resource site for tutors. The link to the module is:

http://medic.cardiff.ac.uk/clinicalskills/

Please find the Handwashing, Gloving and Gowning module within the list of e-modules.

We are aiming for the students to be:

Accurate  Efficient  Compassionate

Thank you again for your participation.

The Clinical Skills Team
Overall Session Aim

To facilitate learning regarding the purpose and procedure of hand hygiene / gloving and gowning

Intended Learning Outcomes

By the end of this workshop the students should be able to:

1. Discuss the need for effective hand hygiene within the health care setting.

2. Describe the need for effective ‘scrub’ in the theatre setting.

3. Appreciate the need for protective clothing within a ‘scrub’ environment.

4. Demonstrate, to a level expected of the student’s stage of training, a degree of competence in the procedural steps of effective ‘scrub’ for theatre.

5. Evaluate own learning and recognise how improvements can be made.
Workshop Structure – Guidance for Tutors

Please Note: Students arrive 15 minutes prior to taught session for registration and housekeeping

<table>
<thead>
<tr>
<th>Taught Session Time: 40 minutes</th>
<th>Session Progression</th>
<th>Additional Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Handwashing, Gloving and Gowning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 minutes</td>
<td><strong>Introduction</strong> Question and Answer Session (See Appendix A)</td>
<td>Questions and Answers detailed in Appendix A</td>
</tr>
<tr>
<td>8 minutes</td>
<td><strong>Demonstration</strong> Full demonstration and discussion of hand hygiene / washing, surgical scrub and donning gloves and gowns by Tutor</td>
<td>Vygon surgical brushes, Gowns, Gloves, Caps, Masks</td>
</tr>
<tr>
<td>2 minutes</td>
<td><strong>Questions and Answers</strong> Students given the opportunity to ask any questions that may have arisen during demonstration</td>
<td>--</td>
</tr>
<tr>
<td>20 minutes</td>
<td><strong>Practice</strong> Students work in pairs and practice performing hand washing, gloving and gowning</td>
<td>Vygon surgical brushes, Gowns, Gloves, Caps, Masks</td>
</tr>
<tr>
<td>2 minutes</td>
<td><strong>Discussion and Final Question and Answer</strong> Recapitulate on the session and address any questions that have arisen</td>
<td>--</td>
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</table>
**Introduction:**

Health care staff have the greatest potential to spread the micro organisms that cause infection...

Health care associated infection (HCAI) is critical patient safety issue. At any one time up to eight percent of inpatients in England and Wales have HCAI (Smythe et al 2008).

Evidence shows that improving hand hygiene contributes significantly to the reduction of HCAI.

Gloving and Gowning is an essential part of infection control procedure in certain environments such as surgical theatre.

**Assessment:**

For the purposes of this workshop, students will be assessed on a formative basis. This will take place in two parts:

1. A quiz at the start of the session based on prior self-directed learning (Appendix A).

2. The practical component is assessed through observation and feedback on the student performance with the aim of encouraging further practice and improvement. Throughout the session it is proposed that frequent questions should be posed to the students, encouraging each student as the session progresses. A formative assessment sheet is provided, on which the tutor has to indicate that the student has participated in the practical component. There is room for ‘comments’ regarding student performance if required.
## Appendix A – Questions and Answers

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>What does HCAI stand for?</td>
<td><strong>Health Care Associated Infection</strong></td>
</tr>
<tr>
<td>At any one time, up to how many percent of inpatients in England and</td>
<td>8%</td>
</tr>
<tr>
<td>Wales have HCAI?</td>
<td></td>
</tr>
<tr>
<td>According to the WHO guidelines how many seconds should the hand</td>
<td>40 – 60 seconds</td>
</tr>
<tr>
<td>hygiene technique with soap and water take?</td>
<td></td>
</tr>
<tr>
<td>How long will a surgical scrub last (not including rinsing time)?</td>
<td>At least 5 minutes</td>
</tr>
<tr>
<td>Why should a person with a cut or a burn not scrub?</td>
<td>Because of the high bacterial count</td>
</tr>
<tr>
<td>When the gown is picked up for the first time and unravelled why should</td>
<td>As this could create turbulence which could cause debris from the</td>
</tr>
<tr>
<td>the gown not be shaken?</td>
<td>floor to rise and contaminate hands and gown</td>
</tr>
<tr>
<td>Within the educational video on the e-learning module a specialty was</td>
<td>Orthopaedics</td>
</tr>
<tr>
<td>mentioned specifically as one that would require double gloving. What</td>
<td></td>
</tr>
<tr>
<td>specialty is this?</td>
<td></td>
</tr>
<tr>
<td>If using a sterile brush which area should you scrub?</td>
<td>The nails only</td>
</tr>
<tr>
<td>Why should the skin not be scrubbed?</td>
<td>Leads to skin damage, where skin may harbour more bacteria</td>
</tr>
<tr>
<td>Complete the sentence...</td>
<td>When rinsing the hands use <strong>one direction</strong> only</td>
</tr>
<tr>
<td>When rinsing the hands use ...  ........ only</td>
<td></td>
</tr>
</tbody>
</table>
Appendix B – Pre Procedure Checklist

- Attend to your personal needs
- Apply cap and mask if in theatre setting
- Hair should be inside cap
- Mask should cover nose, mouth, cheeks and chin
- Sleeves of scrubs should be above elbow
- Remove all hand jewellery
- Check fingernails – they should be clean and short
- Check if liquid antiseptic agent e.g. betadine or hibiscrub (if in theatre), or liquid soap (if on ward) are available
- Check sterile brush is available (if in theatre)
- The surgical scrub will last 5 minutes (not including rinsing time)
Appendix C - Useful resources:

Bandolier Provides evidence based thinking about Healthcare
http://www.medicine.ox.ac.uk/bandolier/band67/b67-3.html#Heading4

A link to a WHO summary document on Hand Hygiene in Health Care