CAMES
Technical Skills

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• Challenges of patient care
• Increasing focus on patient safety
• Limitations on work hours

Simulation-based education
BOOTCAMP

• Intensive, focused training
• Experiential, hands-on
• Time efficient
• Safe environment
• Accelerated learning
MISSION

• Prepare junior doctors for the rigors of real-life clinical practice

• Bridge the gap between expectations and what newly graduated doctors are able to do
**SETTING**

- **Date:** January-February 2017 (10 days)
- **Place:** CAMES Rigshospitalet
- **Faculty members**
  - Specialists
  - Medical students as training assistants
Participants’ profile: medical doctors during their first year of generic training

Number of participants: 71 junior doctors
1 DAY, 5 STATIONS:

CAMES Copenhagen Academy for Medical Education and Simulation
Advertisement of Bootcamp

104 contacted CAMES

- 80 participants accepted
  - 75 confirmed

- 9 in the waiting list
  - 5 participants accepted
<table>
<thead>
<tr>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Group D</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-11:00 Camera Navigation</td>
<td>08:00-09:30 Chest tube drainage</td>
<td>08:00-10:00 Lumbar Puncture</td>
<td>08:00-10:00 FAST</td>
</tr>
<tr>
<td>11:00-12:30 Chest tube drainage</td>
<td>09:30-12:30 Camera Navigation</td>
<td>10:00-12:00 FAST</td>
<td>10:00-12:00 Lumbar Puncture</td>
</tr>
<tr>
<td>12:45-13:30 Emergency Cricothyroidotomy</td>
<td>12:45-13:30 Emergency Cricothyroidotomy</td>
<td>12:00-12:40 Emergency Cricothyroidotomy</td>
<td>12:00-12:40 Emergency Cricothyroidotomy</td>
</tr>
<tr>
<td>13:30-15:30 Lumbar puncture</td>
<td>13:30-15:30 FAST</td>
<td>13:00-16:00 Camera Navigation</td>
<td>13:00-14:30 Chest tube drainage</td>
</tr>
<tr>
<td>15:30-17:30 FAST</td>
<td>15:30-17:30 Lumbar puncture</td>
<td>16:00-17:30 Chest tube drainage</td>
<td>14:30-17:30 Camera Navigation</td>
</tr>
</tbody>
</table>

Total = 71 participants
END OF COURSE

EVALUATION

The course had value to the student

The student would recommend the course

Quality of the practical organization of the course was good
CRICOTHYROIDOTOMY

The quality of emergency cricothyrotomy course was high

Length of emergency cricothyrotomy course

The student felt like he/she improved in the procedure

The student feel competent in performing the procedure
LUMBAR PUNCTURE

CAMES Copenhagen Academy for Medical Education and Simulation

**The quality of lumbar puncture course was high**

- Frequency

**Length of lumbar puncture course**

- Frequency

**The student felt like he/she improved in the procedure**

- Frequency

**The student feel competent in performing the procedure**

- Frequency
CHEST TUBE DRAINAGE

The quality of pleuracentesis course was high

Length of pleuracentesis course

The student felt like he/she improved in the procedure

The student feel competent in performing the procedure
SUMMARY

• The junior doctors will recommend the course
• FAST too short, camera navigation too long. They feel less competent in FAST and camera navigation than in the other procedures
• The information before the course could be better
## END STATION ASSESSMENT

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>PASSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAST</td>
<td>13 (18%)</td>
</tr>
<tr>
<td>Emergency Crichothyroidotomy</td>
<td>54 (76%)</td>
</tr>
<tr>
<td>Lumbar puncture</td>
<td>63 (89%)</td>
</tr>
<tr>
<td>Chest tube drainage</td>
<td>64 (90%)</td>
</tr>
<tr>
<td>Camera navigation</td>
<td>66 (93%)</td>
</tr>
</tbody>
</table>
TAKE HOME MESSAGE

- The bootcamp was an effective way to equip junior doctors with basic clinical skills - but does NOT ensure competency for all.

- Mastery Learning!

- It is not enough that the trainees have enjoyed the course.

- Use assessment tools with validity evidence to measure competency.
FUTURE PLANS

• Comparison of performance: morning vs afternoon groups
• Comparing bootcamp results to our normal courses
• Explore alignment between self-perceived competence and actual performance
• Revision of set-up
Overskrift 27pt i to eller flere linjer
teksten vokser opad

• Brødtekst 22pt skrives her

• Andet niveau

• Tredje niveau

• Fjerde niveau

• Femte niveau

Opstil teksten i
 punkter

Niveauer
1. Niveau = Bullets 22 pkt
2. Niveau = Bullets 22 pkt
3. Niveau = Bullets 20 pkt
4. Niveau = Bullets 18 pkt
5. – 9. Niveau = Bullets 16 – 10 pkt

For at få punktopstillet teksten (flere niveauer findes) brug Forøg listeniveau

For at få venstrestillet teksten uden punktopstilling, brug Formindsk listeniveau

www.camesmasterclass.com
Thank you.

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