

**Asynchronous, web-based learning in a flipped
classroom:
Modular CME for Emergency Physicians**

EPoster presentation SMACC 2013

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Background and aim

- Dutch Emergency Physician training: 3 year competency-based training programme
- EU Doctor's Directive: training scheme for EPs must be a minimum of 5 years
- Dutch EPs are seen to perform at an intermediate level
- Goals MNSHA (Modular CME for Emergency Physicians):
 - improve knowledge and skills
 - develop meta-cognition
 - improve self-confidence
 - develop method for personal CME

Overall AIM: Improved consultant level decision-making

Method

- MNSHA: modular program (masterclasses) for Dutch EPs
- Masterclass: 3-4 months, covering a select area of EM
- A **flipped classroom** is utilised where participants access learning materials prior to attending group sessions
- An **asynchronous approach** is incorporated, allowing education to take place when and where the participant likes

Course description I

- **Study guide** outlines topics and schedule by providing:
 - Learning outcomes
 - Cases
 - Suggested reading
 - Websites
 - Blogs
- The course is specifically designed NOT to deliver content in order to stimulate individual ways of information gathering
- **Mentoring system:**
 - Australian EPs as mentors
 - Aim: role model consultant level reasoning, challenge, enhance learning, stimulate

Course description II

Web based learning community

www.mnsha.nl

Website providing:

- Masterclass information
- Study materials (study guide, cases)
- Links to online resources
- Online forum to discuss each topic with other participants and mentors
- Tools for communication: skype, google hangout



Course description III

Face to Face time

- The first meeting:
 - Introduction to the format of the course
 - Learning objectives and suggestions on how to approach the vast array of medical resources available
- The second session:
 - **Learner driven**
 - Participant knowledge is challenged through questions and cases

Course description IV

- The final three day session:
 - Participants develop a **meta-understanding** of subject matter by discussing studied topics in small and large groups facilitated by faculty
 - The discussions are primarily case based and **relate to clinical practice**
 - Summative assessment is completed with objective structured clinical examinations and face-to-face discussion with examiners

Conclusion

- MNSHA uses modern educational methods to deliver CME
- Participants will develop an effective, personal and sustainable method to gain and maintain knowledge and skills as part of their ongoing professional education
- After finishing a MNSHA masterclass Dutch EPs obtain improved consultant level decision-making