Towards standardisation and better comprehensibility of course content: use of a web-based text annotation tool to enhance the collaborative formative review of teaching and learning material



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practical medical skills in the curriculum

15h training

4-6 hsupervised 2-3self study Stations

	Students	Small groups	Peer tutors	Expert supervisors
02/03	113	13	6	5
03/04	487	49	17	6
04/05	600	60	20	5



course structure and organisation

objectives

- Mastery in "basic practical skills"
 - Venipuncture
 - •IV-line
 - Catheterisation
 - Suturing



process

peer teaching under expert supervision

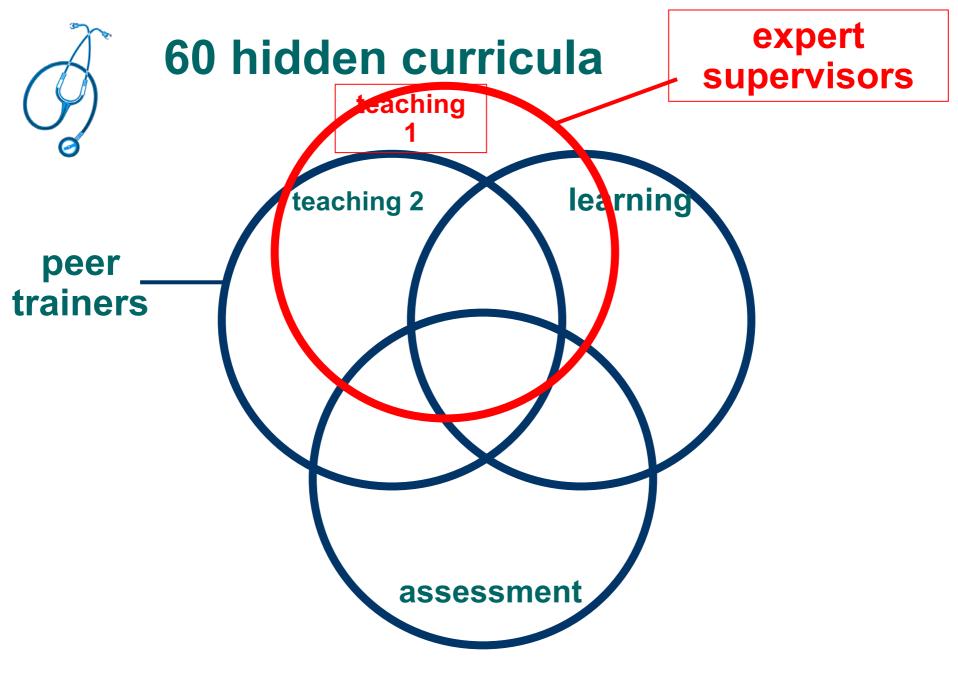


- mannequins
- role play

AMEE 2005 Amsterdam

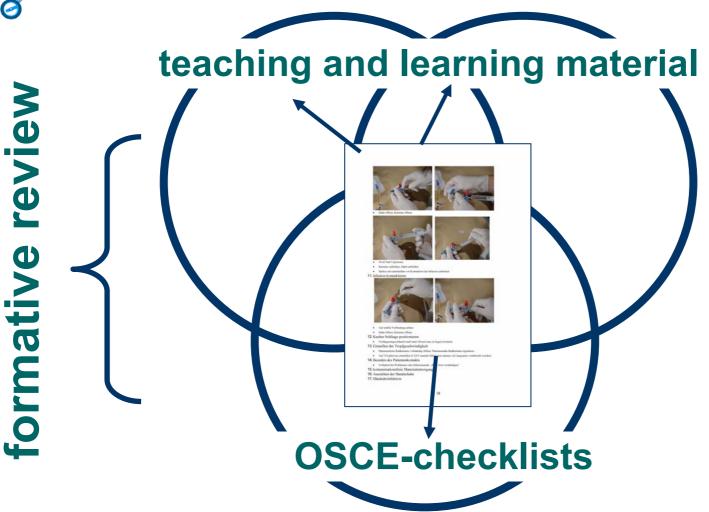
outcome

•2 OSCE stations





standardised procedurally highly detailed learning material





standardised procedurally highly detailed learning material

- 1. Händedesinfekti
- 2. Materialvorberei
- Kontaktaufnahm Patienten
- 4. Patientenlagerui
- 5. Handschuhe and
- 6. Stauen
- 7. Aufsuchen der \
- 8. Wischdesinfektion
- 9. Punktion
- 10. Blutabnahme

8. Wischdesinfektion

- Tupfer erst unmittelbar vor Desinfektion satt mit alkoholhaltigem Desinfektionsmittel tränken
- Mit 2 Tupfern je einmal von proximal nach distal wischen
- warten bis Alkohol eingetrocknet ist, mindestens jedoch 30"



12. Kucher Schringe positionieren

Verlängerungsschlauch muß unter Herzniveau zu liegen kommen

13. Einstellen der Tropfgeschwindigkeit





Bearbeiten Datei 👄 Zurück 🔻 🖟

www.quicktopic.com

Adresse Thttp://www collaborative hypertext as a review

 $-z_1$

Comments for item

mpm

01-28-2004 06:19 PM ET (US)

Wäre nicht eventuell das Stauen vor dem Anziehen der Handschuhe sinnvoll?

Auch wenn dann etwas länger gestaut werden würde, so besteht dennoch bei dem gezeigten Verfahren des Stauens (Finger als Klemmschutz) ein gewisses Risiko, den Handschuh zu beschädigen.

6. Stauen

Proximal der Punktionsstelle **C**22 •



- C23 Die Stauung darf den Puls nicht abschnüren (arterieller Druck > Staudruck > Venendruck))
- Haut nicht einklemmen (v.a. bei exsikkierten Patienten), d.h. Zeige und Mittelfinger der 2. Hand zwischen Schloss der Staubinde und Haut des Patienten.
- ab jetzt zügig vorgehen C25 •
- ©26 6b. Stauen mit Stauschlauch
- nicht bei exsikkierten Patienten C27 •
- C28 Schlauch unterhalb des Patientenunterarms frei spannen und ohne die Spannung zu

verringern um der Arm herumführen

C29

Comments for item 29

Sascha

11-12-2003 12:47 PM ET (US)

Bei dieser Grafik sollte man vielleicht ergänzen, das oben distal und unten proximal ist (sprich: "Oben geht's in Richtung Hand,



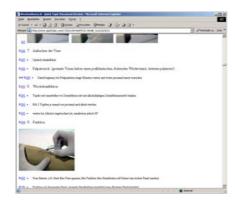
Strategy

objectives



skills course





on the spot report of questions or standard deviations to course content



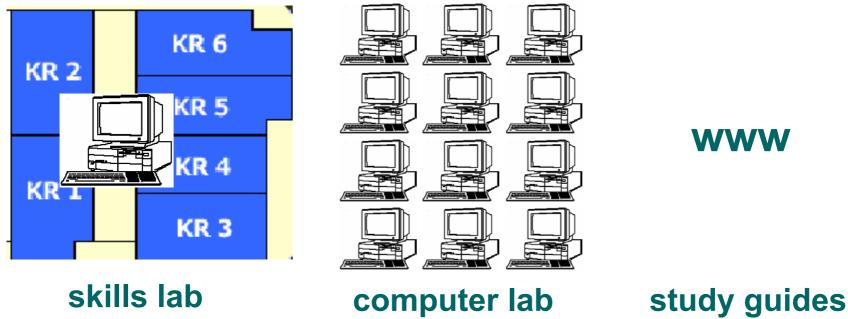
annotation tool

students peer tutors supervisors

yearly review by expert panel



year 02/03 on the spot availability



- Peer-tutors are asked to announce the availability of the tool
- Questionnaire about usage



Results 02/03

• 45 comments

	n	% usage	comments	changes due to comments*
students	113	8%	16	3
Peer tutors	6	83%	16	11
supervisors	5	80%	13	12

^{*} difficult to estimate, since major changes in the learning material



Results student questionaire I

- 96 responded (85 %)
- ~90% use eMail and the internet at least once a week
- ~80% regard the tool as useful to collect vagueness or document errors in the learning material
- ~60% regard the tool useful to document discussions about standards



Results student questionaire II

- 83% used it never (53%) or only one to two times (30%)
- 20% never heard of the existence of the tool

- students would have used it more often, if
 - they had been informed better (41%)
 - they would have more time (36%)
 - if the software would run quicker (12%)

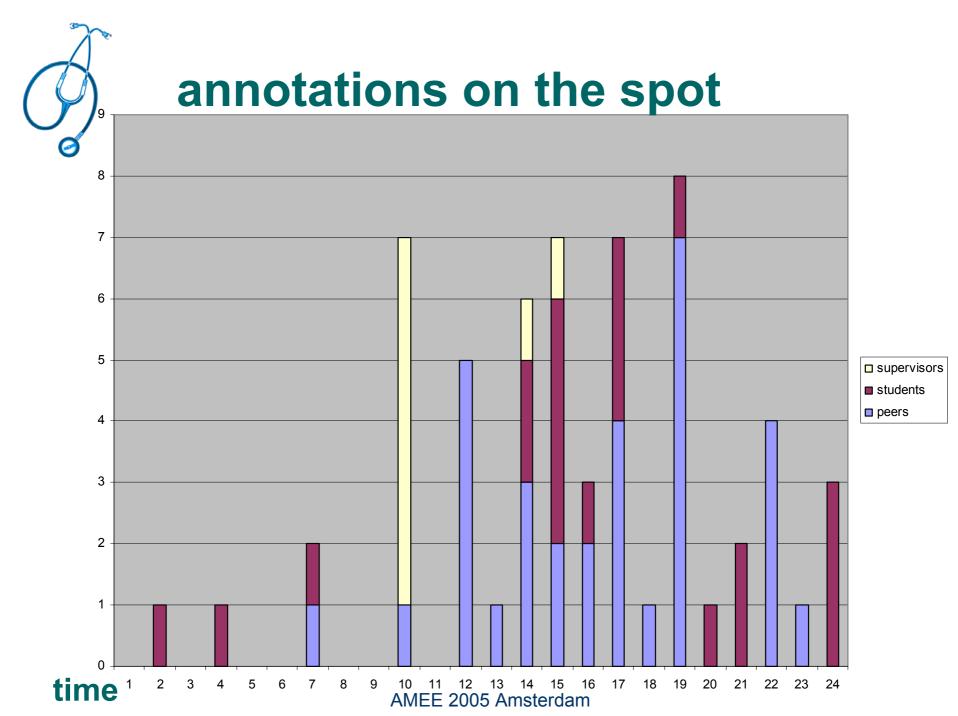


Results 03/04

tool better available, better computer and better advertised, more time

- 62 comments
- 106 skript-changes (wording, additions, deletions, transitions)
- 65% of changes directly induced by hypertext comments

	n	% usage	comments	changes due to comments*	% efficacy
students	487	4%	21	9	43%
Peer tutors	17	41%	33 (*19)	53 (§37)	160% (&195%)
supervisors	2	40%	8 (#6)	7 (#7)	86% (#117%)





Conclusion

- in 03/04 the majority of changes in the skript was due to hypertext comments
- the tool is not heavily used, but very effective
- students are the wrong target group; most students do not use the tool and their comments have low impact for the formative review process
- teachers, especially peer tutors, use the tool to a higher extent, and their comments are very valuable
- on the spot usage is an option, but not necessarily preferred