

Forskning og udvikling i sundhedsfaglig uddannelse?

"Uddannelse - Det kan du da ikke skabe dig en fremtid på"

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 Uddannelses ansvarlig overlæge, Postgraduat klinisk lektor
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Rigshospitalet

Introduktion - Hvem er I?

Faggrupper

Læger
 Sygeplejersker
 Fysioterapeuter
 Jordemødre
 Andre sundhedsfaglige
 Administrativt ansatte

Forsker - skriver artikler - læser artikler?

Sundhedsfaglig område
 Medicinsk / sundhedsfaglig uddannelse

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Citat om at arbejde med Uddannelse & forskning

"There is a remarkable difference in attitude between university staff as teachers and researchers.

As researchers we critically read the newest literature, we think of new approaches and theories, look for empirical verification and submit our work to the critique of others through rigorous peer review.

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.....
The situation seems quite different in education. As teachers we seem to have a different attitude.

We do the things we do, because that is the way we have been raised ourselves and that is the way it has been done for many years, even centuries."

Cees Van der Vleuten. Medical Teacher 2000:246-56

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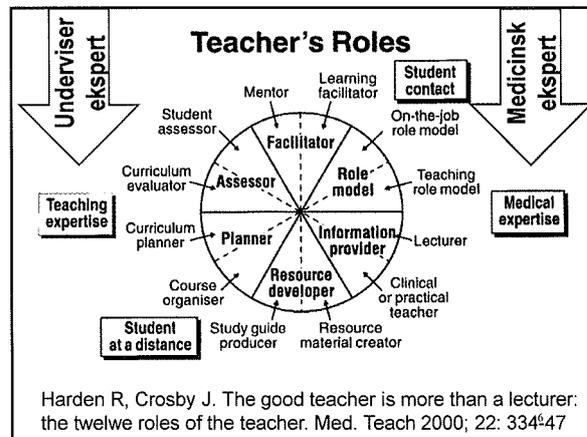
Monitoring the medical education revolution

The impact of new training programmes must be evaluated

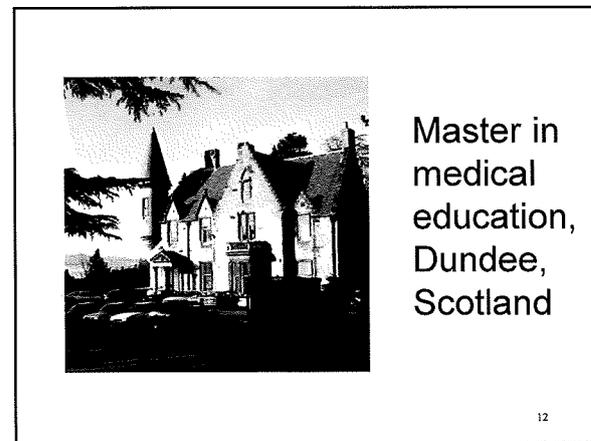
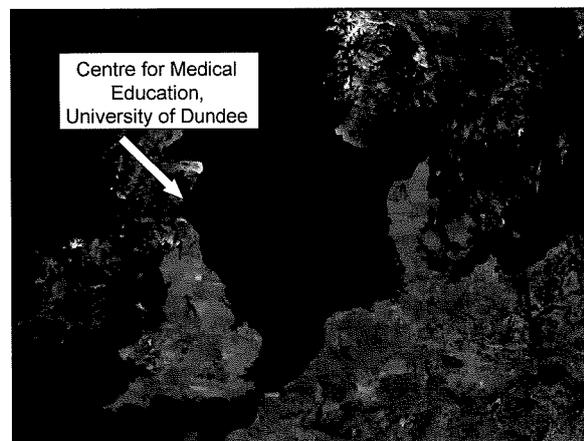
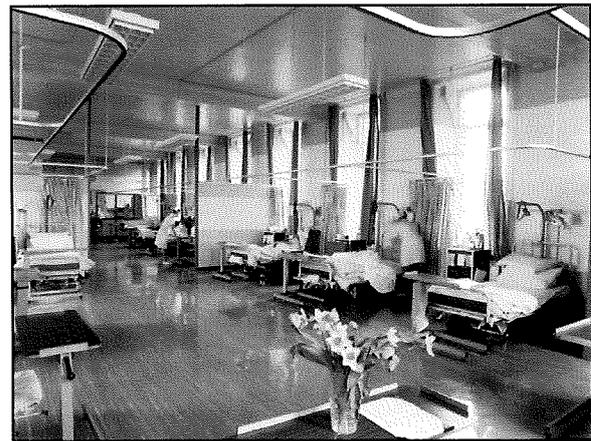
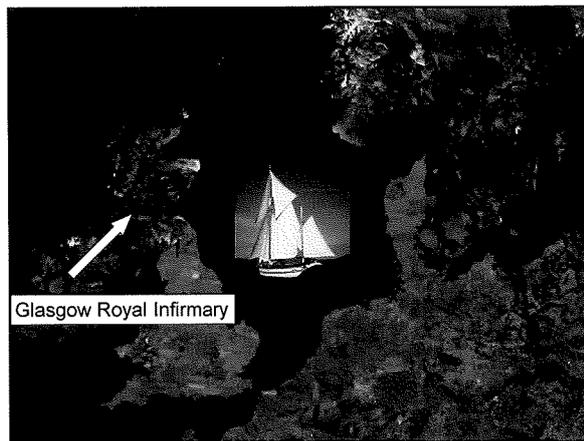
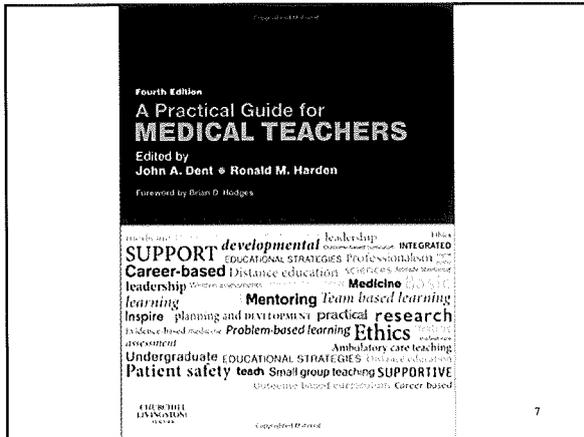
There is a need to give change in health

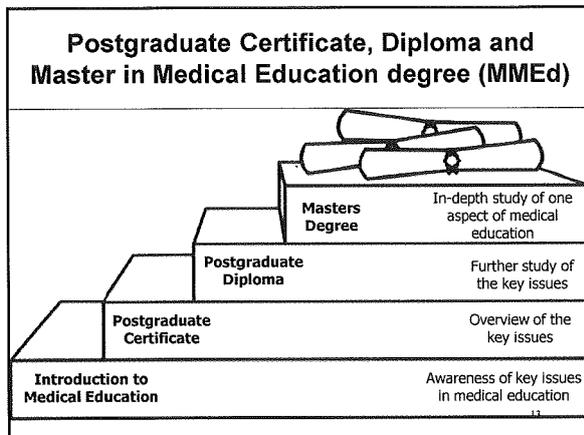
Medical education is in the midst of a revolution and the pace is unlikely to slacken. There is an urgent need to monitor this new international culture in medical education, learn from each other's experiences, and establish evidence for best practice.

Wass V et al.
 BMJ 2003



Harden R, Crosby J. The good teacher is more than a lecturer: the twelve roles of the teacher. Med. Teach 2000; 22: 334-47



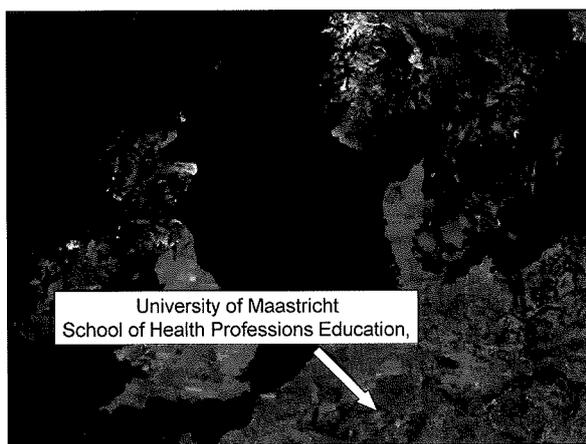


**Masters Thesis in Medical Education
Obstetric skills training**
Development, implementation and evaluation of a training program

Jette Led Sørensen
Obstetric Department, Juliane Marie Centre
Rigshospitalet
Faculty of Health Sciences, University of Copenhagen
Denmark

Centre for Medical Education
University of Dundee, Scotland
United Kingdom
2017

www.rigshospitalet.dk/simulation-jmc



OBSTETRIC SIMULATION
- Designing simulation-based medical education and the role of physical fidelity

University of Maastricht
School of Health Professions Education,
Supervisors: Cees Van der Vleuten & Bent Ottesen

www.rigshosp Jette Led Sørensen

Disposition

- Præsentation
- Hvorfor forske i uddannelse
- Litteratur om medicinsk uddannelse
- Forsknings kompasset
- Fremtidens behandling og uddannelse (forske i)
- Curriculum udvikling
- Evaluering
- Kompetencevurdering
- Om outcome
- Tværfaglighed
- Strategi og fondsmidler

Hvorfor forske i uddannelse?

Overvej det.....

Forskning i sundhedsfaglig uddannelse

Uddannelse en kerneydelse - høj udd. kvalitet kræver forskning

Mere end evaluering, audit og effekt måling (lokal aktivitet)

Forske i generelle problemer, fænomener og relationer

Skabe ny viden

Skabe ny forståelse af læring og uddannelse

Teori udvikling af pædagogisk teori – forudsige resultater 19

Holdninger - Modsætninger

Kliniks orienteret sundhedsfaglig uden uddannelses viden

↔

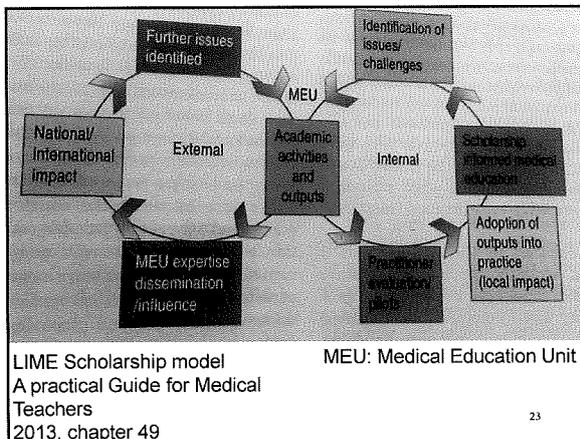
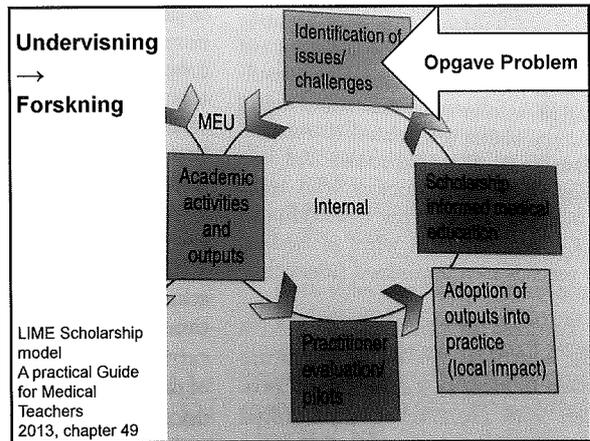
Uddannelses / social / psykologisk viden uden klinisk viden

Forskning for at gavne praksis

↔

Forskning for at generere teori

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Graduate Medical Education

Theory and Practice in the Design and Conduct of Graduate Medical Education

Brian David Hodges, MD, PhD, and Aydin Kuper, MD, DHEd

Abstract

Medical education practice is more often the result of tradition, ritual, culture, and history than of any single expressed theoretical or conceptual framework. The authors explain the importance and nature of the role of theory in the design and conduct of graduate medical education. They outline three groups of theories relevant to graduate medical education: bioscience theories, learning theories, and sociocultural theories. Bioscience theories are familiar to many medical educators but are often misperceived as truths rather than theories. Theories from such disciplines as neuroscience, kinesiology, and cognitive psychology offer insights into areas such as memory formation, error

Medical education is often result of tradition, ritual, culture, and history

Three groups of theories relevant to graduate medical education:

- Bioscience theories
- Learning theories
- Sociocultural theories

Hodges B Academic Medicine 2012

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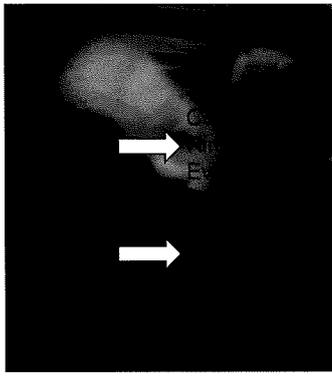
Forskning i medicinsk uddannelse



Knytter an til
Pædagogik,
Psykologi,
Sociologi,
Antropologi
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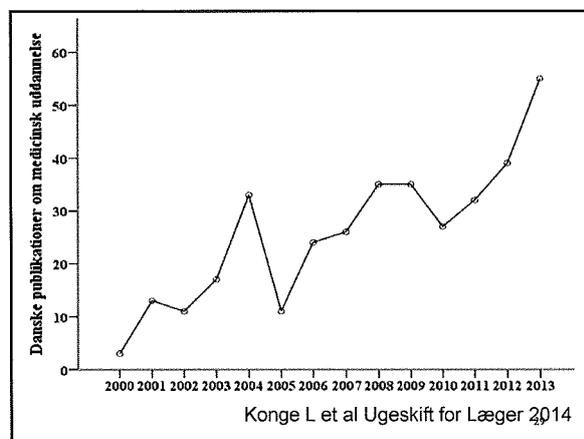
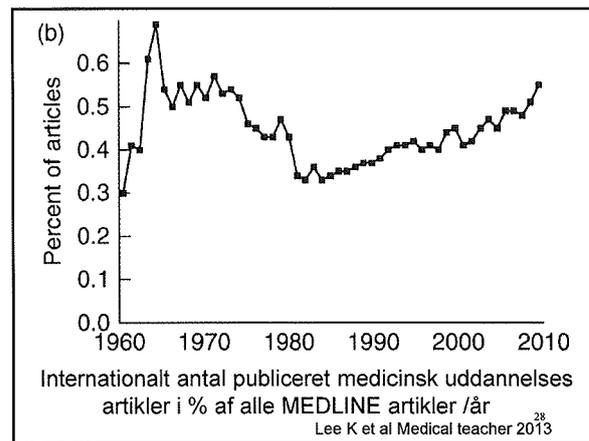
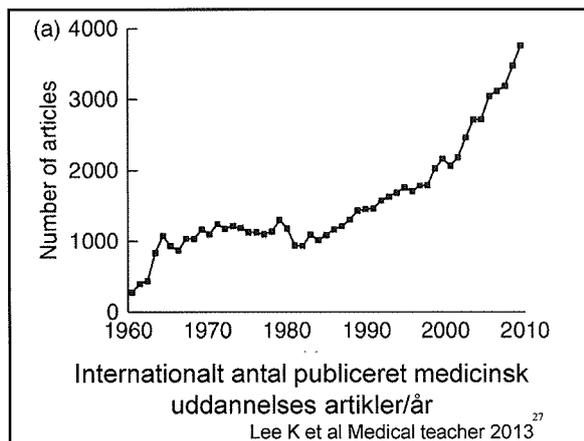
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Forskning i medicinsk uddannelse



2007
Education 2008
FL 2008
Educatio 2009
Teacher 2010
im Health 2011
Teacher 2012
Med. 2013
Teacher 2013
Med. 2015

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Udd. publikationer - metoder

2004-2005 Lancet, BMJ, Med edu, Med Teacher
N=387

Prægraduat	62 %
Postgraduat	11 %
Efteruddannelse (CME)	22 %

Studiedesign

Observationelle	69 %
Kohorte	8 %
Før - efter	8 %
Andre	15 % (3% RCT)

Todres M, BMJ 2007³⁰

Description, justification and clarification: a framework for classifying the purposes of research in medical education

David A Azer, Georges Borjesson & Henrik Schmidt

Artikler publiceret 2003-2004
(Academic Medicine, Advances in Health Sciences Education, American Journal of Surgery, Journal of General Internal Medicine, Medical Education and Teaching and Learning in Medicine)

1459 artikler → 185 → 110 artikler udd. eksperimenter

Klassificeret som:

- Description (What was done?) 16 %
- Justification (Did it work?) 75 %
- Clarification (How and why did it work?) 12 %

Clarification studier anbefales. "How and why does it work?"

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Impact factor of journals

Journal abbreviation	2011	2010	2009
Acad Med	3.524	3.255	3.321
Adv Health Sci Educ	2.089	2.043	1.754
Adv Physiol Educ	1.547	1.416	1.669
Am J Pharm Educ	1.205	1.195	1.295
Anat Sci Educ	—	0.929	0.843
Biochem Mol Biol Edu	0.840	1.169	1.136
BMC Med Educ	1.152	0.943	1.133
CBE Life Sci Educ	1.191	0.967	0.991
Eur J Dent Educ	1.183	0.925	1.024
Indian J Pharm Educ	0.106	1.194	1.293
J Biol Educ	0.391	0.628	0.485
J Contin Educ Health	1.521	—	—
J Surg Educ	1.376	—	—
Med Educ	3.176	—	—
Med Teach	1.217	—	—
Teach Learn Med	0.748	—	—

Azer SA et al. J Postgraduate Medicine 2015

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BLOG

The Top-Cited Articles in Medical Education: A Bibliometric Analysis

Sung A. Azer, MD, PhD, MBA, MPH

27 udd. medicinske tidsskrifter
19 generelle tidsskrifter (JAMA, BMJ, NEJM, Lancet mv)
10 i psykologiske el generelle udd. tidsskrifter

..... interessante at læse

Azer SA, Acad. Medicine 2015 33

BLOG

The Top-Cited Articles in Medical Education: A Bibliometric Analysis

Sung A. Azer, MD, PhD, MBA, MPH

Keyword MESH

problem-based learning, casebased learning, team-based learning, medical students, medical simulation, multiple-choice questions, extended matching questions, mini-CEX, OSCE, formative assessment, summative assessment, continuing assessment, online assessment, self-development, staff training, curriculum, curriculum outcomes, program evaluation, self-regulated learning, selfdirected learning, professionalism, medical ethics, clinical skills, simulated patient, standardized patient, medical education, clinical teacher, facilitator, tutor, teaching basic science, learning anatomy, student feedback, feedback, role model, mentoring, clerkship, medical informatics, and e-learning.

Clinical Competence

The Equator to perform a complex clinical task, under supervision, in a simulated setting.

Keywords: Simulation, Assessment, Education, Medical Education, Clinical Competence

Abstract: This study was conducted in March 2014. A search of medical education journals in the category "Education" was conducted. All articles were reviewed for content, country of origin, and citation count.

33

- Exemplar egne oversigtsartikler**
- Sørensen JL, Østergaard D: Obstetrisk træning – nye metoder. Ugeskrift for læger 2003; 165: 4521-23
 - Persson CA, Sørensen JL, Amer Wahlin I. Evaluation and impact of CTG training programmes: a systematic review. British Journal Obstetric Gynaecology 2011;118:926-35.
 - Madsen K, Grønbeck L, Larsen CR, Østergaard J, Bergholt T, Langhoff-Roos J, Sørensen JL. Educational strategies in performing cesarean section. Acta Obstet Gynecol Scand. 2013;92:256-63
 - Larsen CR, Østergaard J, Ottesen BS, Sørensen JL. The efficacy of virtual reality simulation training in laparoscopy: a systematic review of randomized trials. Acta Obstet Gynecol Scand 2012. Sep;91(9):1015-28
 - Sørensen JL, Termansen, AMB, Rasmussen NL, Laugesen TB, Topperzer MK, Jensen KS, Hansen MMF, Ottesen B. Der er behov for integration af uddannelsesfaciliteter i planlægningen af hospitalsbyggeri. Ugeskrift for Læger 2016
 - Sørensen JL, Østergaard D, LeBlanc V, Ottesen B, Konge L, Dieckmann P, Vleuten CVd. Design of simulation-based medical education: The pros and cons of choosing the simulation setting? I proces
- 36

Technology-Enhanced Simulation for Health Professions Education: A Systematic Review and Meta-analysis

David A. Cook, MD, MHPE
 Rose Hatada, MD, MS
 Ryan Bridges, PhD
 Benjamin Zendejas, MD, MS
 Jason H. Szotek, MD
 Amy T. Wang, MD
 Patricia J. Lynn, MS
 Stanley J. Hamstra, PhD

Context Although technology-enhanced simulation has widespread appeal, its effectiveness remains uncertain. A comprehensive synthesis of evidence may inform the use of simulation in health professions education.

Objective To summarize the outcomes of technology-enhanced simulation training for health professions learners in comparison with no intervention.

Data Source Systematic search of MEDLINE, EMBASE, CINAHL, ERIC, PsycINFO, Scopus, key journals, and previous review bibliographies through May 2013.

Study Selection Original research in any language evaluating simulation compared with no intervention for training practicing and student physicians, nurses, dentists, and other health care professionals.

Data Extraction Reviewers working in duplicate evaluated quality and abstracted information on learners, instructional design, curricular integration, distribution from...

RESPONDING TO CHANGING PRACTICE ENVIRONMENTS TO

Cook DA, JAMA 2011

Issenberg, Medical Teacher 2005
 McGaghie, Medical Education 2010
 Motola, Medical Teacher 2013

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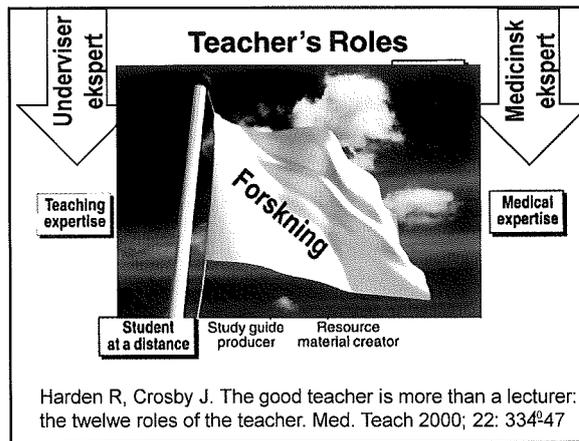
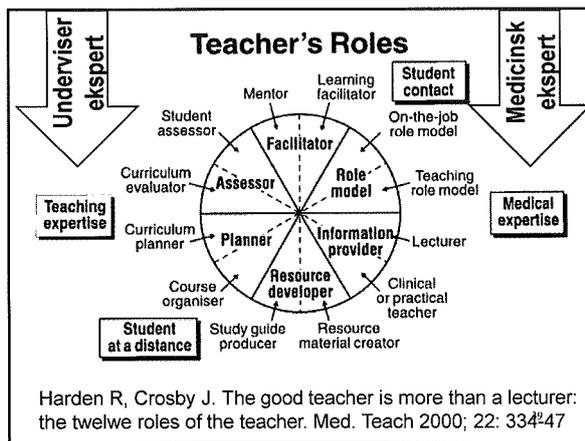
RESPONDING TO CHANGING PRACTICE ENVIRONMENTS TO

Conclusion:
 In comparison with no intervention, technology-enhanced simulation training in health professions education is consistently associated with **large effects** for outcomes of knowledge, skills, and behaviors and **moderate effects** for patient-related outcomes.

Issenberg, Med Teach 2005
 McGaghie, Med Edu 2010
 Motola, Med Teacher 2013

Cook DA, JAMA 2011

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2011 JULY 2011 | MEDICAL TEACHER

AMEE GUIDE

'The research compass': An introduction to research in medical education: AMEE Guide No. 56

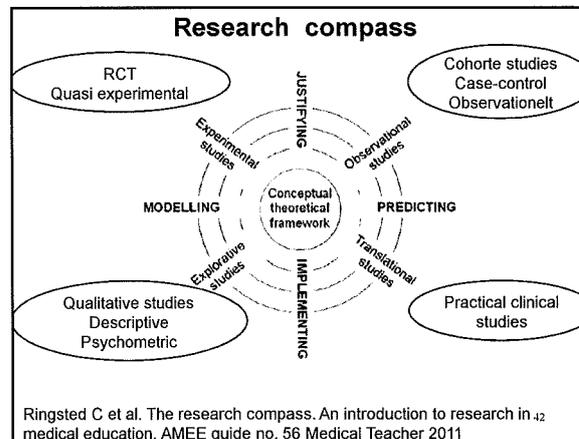
CHARLOTTE RINGSTED*, BRIAN HICKOCKS* & ALBERT SCHNEIDERBERG*

*Faculty of Health, Behavior and Society, Harvard University, Boston, MA, USA; *Faculty of Health, Behavior and Society, Harvard University, Boston, MA, USA

Abstract

The AMEE Guide offers an introduction to research in medical education. It is intended for those who are contemplating conducting research in medical education but are new to the field. The Guide is structured around the process of formulating aims and questions, answering these questions, choosing a research approach that is appropriate to the purposes of the study, and considering the individual researcher's capacities and the contextual possibilities and constraints. The first section of the Guide addresses the rationale for research in medical education, and some of the challenges posed by the complexity of the field. Next is

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Disposition

Præsentation
 Hvorfor forske i uddannelse
 Litteratur om medicinsk uddannelse
 Forsknings kompasset
 Fremtidens behandling og uddannelse (forske i)
 Curriculum udvikling
 Evaluering
 Kompetencevurdering
 Om outcome
 Tværfaglighed
 Strategi og fondsmidler

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Fremtidens behandling

Færre indlæggelser
 Kortere indlæggelsestider
 Samme-dags kirurgi
 Hjemmebehandling
 Indlagte pt. sygere – sværere at bruge til læring
 Flere ambulante patienter
 Mere 'produktion' – hurtigere patient 'turn-over'

Norman G. Perspect Med Edu 2012;1:6-14
 Ugeskrift for læger 2012 tillæg 26-33
 Sørensen JL et al Ugeskrift for Læger 2016

44



45

Fremtidens behandling

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⇒ **Konsekvenser for uddannelse**

Norman G. Perspect Med Edu 2012;1:6-14
 Ugeskrift for læger 2012 tillæg 26-33
 Sørensen JL et al Ugeskrift for Læger 2016

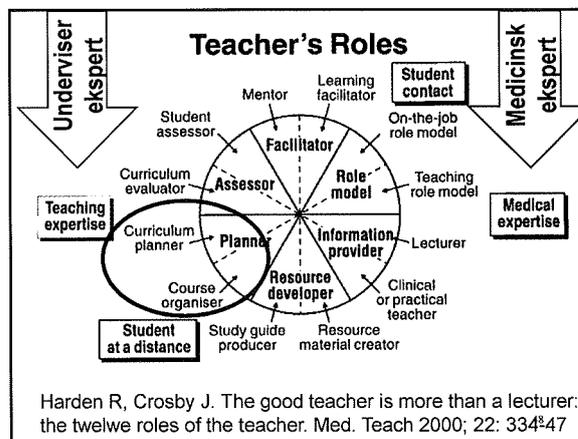
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Fremtidens uddannelse - Trends

- Curriculum udvikling / strategi - involvering "brugere"
- Vurdering af kurser og læringsudbytte
- Kompetencevurdering
- Internationalisering og standardisering
- Sammenhænge prægraduat → postgraduat → CME
- Tværfagligt & Tværdisciplinært
- Rekruttering og udvælgelse
- Ledelse, styring og professionalisering
- Læringsmetoder - læringsstrategier:
 - Simulations baseret læring
 - Team træning
 - Deltager aktiverende undervisning
 - Transmission – Telemedicin - E-læring (IKT)
 - Hybrid-kurser (tilstedeværelse & online)

A practical Guide for Medical Teachers 2013, chapter 1
 Sørensen JL et al Ugeskrift for Læger 2016

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Harden R, Crosby J. The good teacher is more than a lecturer: the twelve roles of the teacher. Med. Teach 2000; 22: 334-47

Planlægning af curriculum / kursus

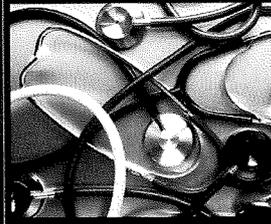
1. Behov
2. Mål
3. Indhold
4. Organisering af indhold
5. Uddannelsesstrategier
6. Læringsmetoder
7. Evaluering
8. Kommunikation
9. Uddannelsesmiljø
10. Proces

**Harden's
10 key
questions**

Harden R. 10 key questions to ask when planning a course or a curriculum. Medical Education 1986, 20, 356-365.

Curriculum Development for Medical Education

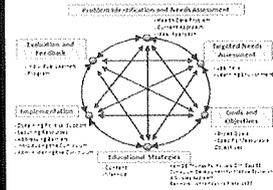
A Six-Step Approach



Second Edition

Edited by
David E. Kern, M.D., MPH
Patricia A. Thomas, M.D.
Mark T. Hughes, M.D., M.A.

Kern's six-step approach



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De syv roller



A TAXONOMY FOR LEARNING, TEACHING, AND ASSESSING

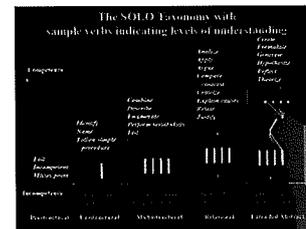
A REVISION OF BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES

EDITED BY LORIN W. ANDERSON AND DAVID R. KRATHWOHL

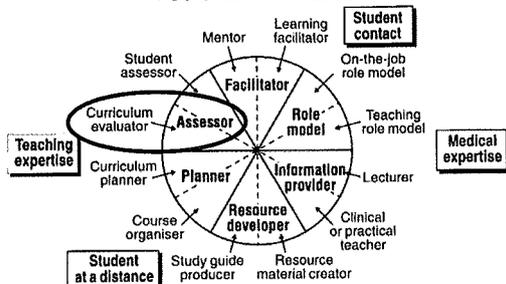
PETER W. AIRASIAN, KATHLEEN A. CHANDLER, RICHARD C. HAKER, PAUL B. FINKBACH, JAMES RATHS, MERLIN C. WETTERSKA

SOLO Taxonomy

Blooms Taxonomy



Teacher's Roles

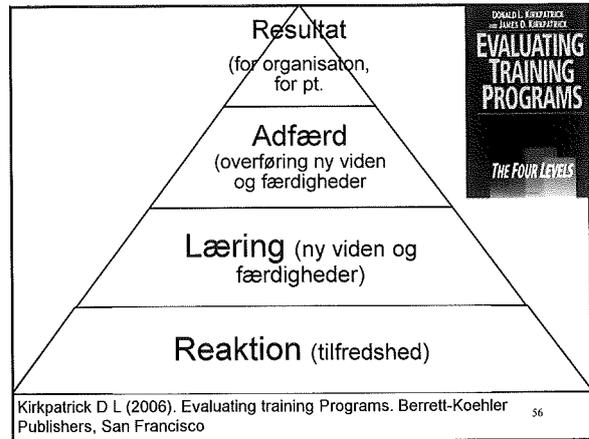
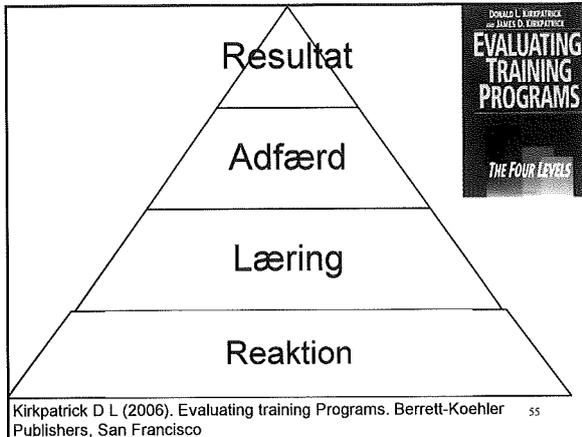


Harden R, Crosby J. The good teacher is more than a lecturer: the twelve roles of the teacher. Med. Teach 2000; 22: 334-47

EVALUATING TRAINING PROGRAMS

THE FOUR LEVELS

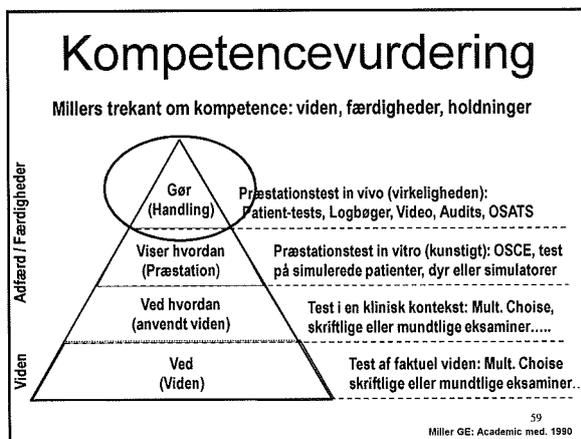
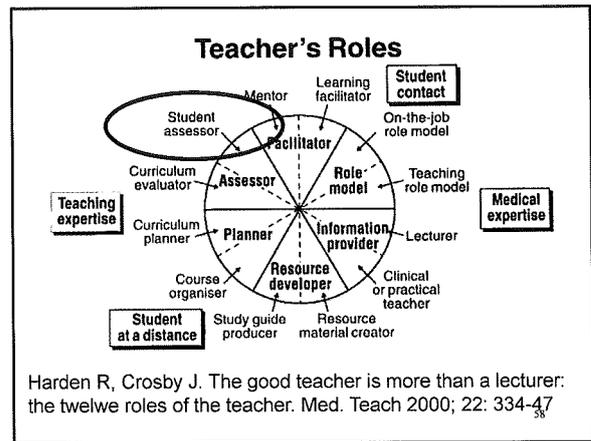
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MEDICAL EDUCATION QUARTET

Medical education quartet

Assessment of clinical competence

Assesment of the Millers pyramid, the "does", is the international challenge of the century of all involved in clinical competence-testing

but medical qualification and fitness to practice, validity, reliability, and standard setting, as well as questions, essays, and oral examinations could indicated methods are needed to assess clinical the structured clinical examinations, and the use of simulation remains the development of reliable active value for subsequent clinical competence.

Lancet 2001;357: 945-948

Hvad måler vi på ? Outcome?

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OUTCOME

Individ

- MCQ: Multiple Choice Questionnaire
- SAQ: Safety Attitudes Questionnaire
- Stress: Spyt cortisol
Stress trait anxiety (STAI)
Cognitive appraisal (CA)
- IMI: Intrinsic motivation inventory

Evaluering

Team

TEAM

- Team performance video-assessed

Organisation

- Forslag til forandringer (SEIPS)

Sørensen JL et al. Trials 2013 (protokol)
Sørensen JL et al. Acta An Scand 2015 (MCQ)
Sørensen JL et al. BMJ Open 2015 (RCT)

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Perspective: Reconsidering the Focus on "Outcomes Research" in Medical Education: A Cautionary Note

David A. Cook, MD, MEd, and Colin F. West, MD, PhD

Abstract

Researchers in medical education have been placing increased emphasis on "outcomes research," or the clinical aspect of educational interventions on patient care. However, although patient outcomes are obviously important, they should not be the sole focus of attention in medical education research. The purpose of this perspective is to highlight the limitations of outcome research in medical education and to suggest ways to facilitate a proper balance between learner-centered and patient-centered assessments....

.... Proper balance between learner-centered and patient-centered assessments....

... nonpatient outcomes continue to hold value, particularly in theory-building research and in the evaluation of program implementation.

Cook D et al Academic Medicine 2013

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Tværfaglig & Tværdisciplinær

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Fra erhvervspraktikanter til ekspertuddannelser

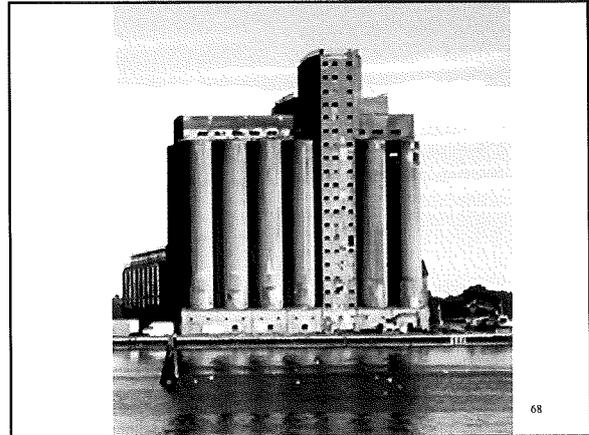
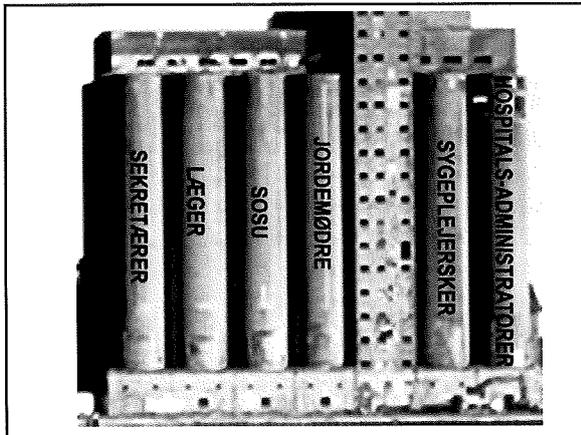
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Fra erhvervspraktikanter til ekspertuddannelser

- Sygeplejersker
- Jordemødre
- SOSU
- Læger
- Sekretærer
- Bioanalytikere
- Ergo- fysioterapeuter
- Psykologer
- Pædagoger
- Soc. Rådgivere

38 lægelige specialer

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Tværfaglig



Multi-professional education is the process by which a group of students or workers from the health related occupations with different educational backgrounds learn together during certain periods of their education, with interaction as an important goal to collaborate in providing preventive, curative, rehabilitative and other health related services

World Health Organization. Framework for Action on Interprofessional 70 Education & Collaborative Practice. 2010.

Tværfaglig



Multi-professional education is the process by which a group of students or workers from the health related occupations with different educational backgrounds learn together during certain periods of their education, with interaction as an important goal to collaborate in providing preventive, curative, rehabilitative and other health related services

World Health Organization. Framework for Action on Interprofessional 71 Education & Collaborative Practice. 2010.

Tværfaglig



Inter-professionel, multi-professionel and multidisciplinært

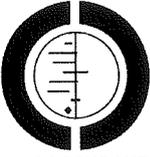
Inter-disciplinært og multi-disciplinært er bredere og omfatter alle sundhedsfaglige fra varierende fag og specialer

Oheia et al, Educ Health 2001; Hammick M. Med Teach 2000; Nancarrow SA, Hum Resour Health 2013

72

Interprofessional collaboration: effects of practice-based interventions on professional practice and healthcare outcomes (Review)

Zwarenstein M, Goldman J, Reeves S



1999

2009

THE COCHRANE COLLABORATION®

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Journal of Interprofessional Care, May 2010; 24(3): 230-241

informa
healthcare

The effectiveness of interprofessional education: Key findings from a new systematic review

SCOTT REEVES¹, MERRICK ZWARENSTEIN², JOANNE GOLDMAN¹, HUGH BARR⁴, DELLA FREETH³, IVAN KOPPEL⁵, & MARILYN HAMM⁶

Despite some useful progress being made in relation to strengthening the evidence base for IPE, the paper concludes by stressing that further rigorous mixed method studies of IPE are needed to provide a greater clarity of IPE and its effects on professional practice and patient/client care.

Tværfaglig Arbejds gruppe

Obs & AnOP Klinikker JMC, Rigshospitalet



Christina Corell	Op.sygeplejerske
Pernille Schou	Op.sygeplejerske
Kristine Sylvan	Jordemoder
Pernille Langhoff-Roos	Jordemoder
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Marianne Johansen	Obstetrisk afd.læge
Jette Led Sørensen	Obstetrisk og udd. ansvarlig overlæge

Sørensen JL et al BMJ open 2015 (open access)

75

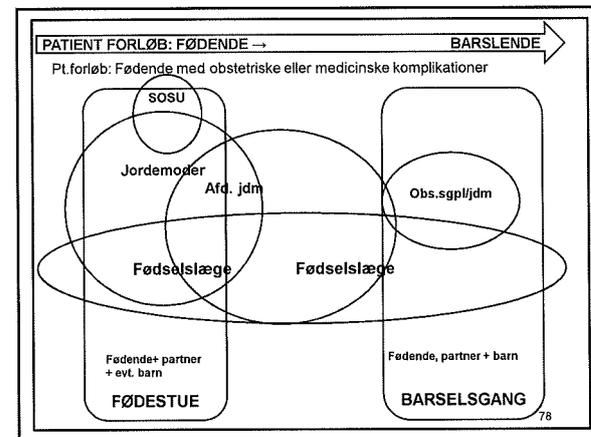
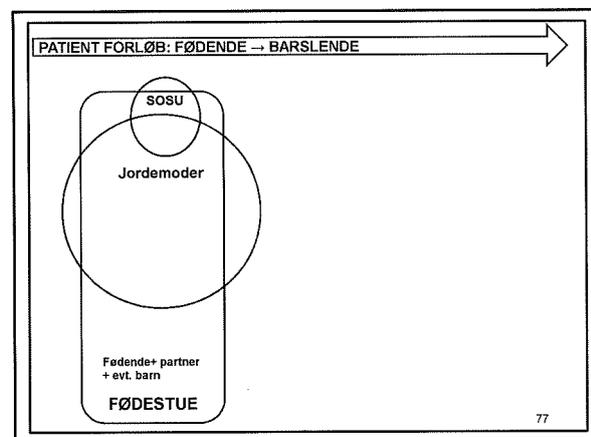
Ob-an-op. fællestræning, JMC, RH

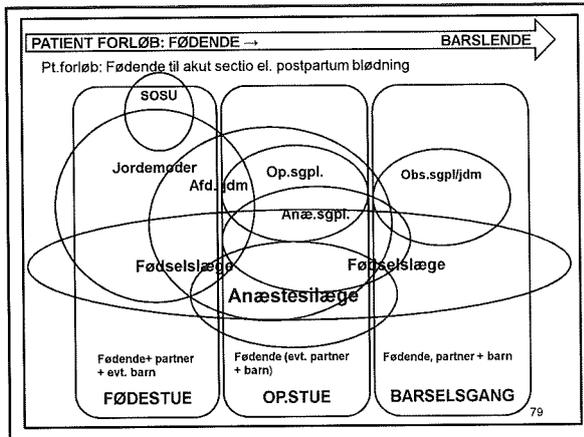
Overordnet formål med fælles træning
Obstetrisk Klinik & Anæstesi- og
Operationsklinikken JMC, RH:

- Optimere obstetriske patienters akutte forløb, der involverer flere faggrupper og specialer
- Skabe øget viden og forståelse mellem faggrupper og specialer for hinandens forskellige roller og ansvar
- Styrke den interprofessionelle kommunikation, kliniske viden og færdigheder i flg. akutte obstetriske hændelser:
 - postpartum blødning
 - svær præeklamsi / eklampsi
 - akut sectio
 - livstruende hændelser hos gravide og fødende

+ Detaljerede mål for specialer og faggrupper, se hj.side www.rigshospitalet.dk/simulation-jmc

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MEDICAL TEACHER

TWELVE TIPS

Twelve tips for a successful interprofessional team-based high-fidelity simulation education session

BY: VAN DER BEEK M, DEJAN BRUARD*, LOBBE, LAYAT RURNY* & SCOTT PELVEST*

From: *Medical Education*, 2015; 40(1): 1-10

Interprofessional education has overlooked the imbalances of authority, status, the hierarchical division of labour, and professional identity that exists between the health professions

Teacher's Roles

Underviser ekspert

Teaching expertise

Medical ekspert

Medical expertise

Student at a distance

Study guide producer

Resource material creator

Harden R, Crosby J. The good teacher is more than a lecturer: the twelve roles of the teacher. *Med. Teach* 2000; 22: 334-47



Juliane Marie Centret

.... Det vil også fremover være en ambition for JMC at være en ligeværdig medspiller i det internationale forskningsmiljø for medicinsk pædagogik. JMC vil derfor fortsat lægge vægt på en forskningsbaseret tilgang til udvikling inden for alle de fagområder, der er i JMC....

2020

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JMC Strategi 2020

Det er resultatet for patienten der tæller

Særlige indsatsområder:

JMC

- At styrke udd. initiativer på tværs af afsnit, klinikker, fagområder og specialer for at give bedre patient forløb, der går på tværs af organisationen
- At styrke fokus på simulations baseret træning både på udviklings-, forsknings- og implementeringsområdet

Obs. Klinik

- Etablering af træningsscenerier i samarbejde med Anæstesi og Operations Klinikken omkring postpartum blødning og grad 1 sectio
- Forskning i og udvikling af den tværfaglige træning og uvarslede øvelser

Anæ-Op Klinikken

- Tværfagligt træningsscenerie i behandling af postpartum blødning i samarbejde med Obstetrisk Klinik

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Fremtiden

- Patientbehandling & pleje, forskning & uddannelse skal udgøre en integreret hele
- Fortsat professionalisere uddannelse
- Uddannelse lokalt forankre - centralisere
- Prioriter uddannelsesforskning
- Mere og bedre uddannelses forskning
- Større studier – samarbejde – multicentre

jette.led.soerense@regionh.dk
www.rigshospitalet.dk/simulation-jmc

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Hvorfor forske i uddannelse?

Overvej det.....

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