#### Skillstraining

#### at the Skillslab, Maastricht University, Faculty of Health, Medicine and Life sciences

## Jan-Joost Rethans and many others

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## Europe and The Netherlands

#### The Netherlands



## The Netherlands and Maastricht







































## **De Keukenhof**

#### **Faculty of Health, Medicine and Life sciences**

- Problem based learning
- Self-directed learning
- Small groups working (n=10)
- Modulair curriculum ('blocks')
- Matrix structure for Education
- Blocks: coordinated by team of several disciplines
- Central Board: Institute of Medical Education

## the new curriculum content

Year 1 emergency care and regulatory mechanisms											
emergencies	tra	traumata shocl			dyspnoea		abdomi	abdominal complaints		dist. conscious	
Year 2 stages of life and diagnostics											
the cell	pregnancy, newborn		infancy pub.&		adol. adulth		bod	od aging		electives	
Year 3 chronic disorders											
circulation & r	espirat	tion	abdomen			locomotion			psychomedical problems		
Year 4 clerkships											
internal m	edicine	e	surgery		dermatol		ENT	ENT ophthalmolog		electives	
Year 5 clerkships											
social healt	social health p		obst	obstetrics /		∕ gynaecology		psychiatry/neurology		family medicine	
Year 6 participation in research and patient care											
research					clinical participation						

## Skillslab

- Department of FHML
- 99.9% Educational Department
- For undergraduate students only
- 18.8 FTE (n=32) faculty (physicians)
- 4.8 FTE secretariat and planning staff
- 340 students per incoming class





## Skillslab

- A Skillslab Curriculum of Skills
- About 250 skills for an undergraduate student (excl. communication/reflection)
- Skills are built into the FHML modulair curriculum
- Students are free to subscribe for training-sessions, but...
- At end of each year: the OSCE

# Skillslab Curriculum fits within the blocks of FHML

#### <u>Content Block 1.2:</u> <u>Traumata</u>

- Blunt Abdominal Trauma
- Wound healing
- Distorsion/Fracture of Ankle



# Skillslab Curriculum fits within the blocks of FHML

#### **SK Content block 1.2**

- Abd: introduction Ph. Ex.
- Proc Sk: Inj. II (sc/im on other student)
- 2x Proc SK: bandaging II + simulation of burns
- Lab II: microscopy
- LMS/Neu: Pain in the (lower)leg
- CORE: 2 x SP-encounter



## Why Skills training?

- Helps students to appreciate, understand and learn theory
- Helps students to benefit more from clerkships (self esteem!)
- Motivation and Fun

## Some points to think of..

- 'Just in time'-learning
- Contextual learning
- Enable deliberate practice: independent practice
- Feedback is essential
- The more authentic, the better (real practice is best)
- Special teaching staff of Skillslab (clinicians)

### What kind of Skills in the Skillslab?

#### 1. 'Trics'

- 2. Physical Examination
  - Heart
  - Lungs etc
- 3. Skills for Communication/Reflection

## **'Trics'**

- Injections (i.v., i.m., iv-infusion)
- Catheterisation
- Suturing wounds

## **Physical Examination**

- As a starter for learning (younger students)
- For understanding the theory (younger students)
- For clinical reasoning (older students)

### **f.e.:** Physical examination of the heart

- Where is the position of the heart?(anatomy)
- Where is the ictus? (anatomy)
- Why do you hear sounds at the heart? (fysiology)
- What is the first/second sound? (theory)
- How do you know? (valueing evidence)
- What does it mean if there is a murmer?(pathology)

## **CORE programme: COmmunication and REflection**

- 34 CORE groups (per yr) of 10 students and 1 tutor
- Compulsory programme with study-credits
- Pre-determined curr: SP encounters, webbased recorded, individual learning objectives and needs: self directed feedback
- More than 4500 SP-consultations a year
- Free elective modules: yr 1 (9); yr 2 (13)
- Compulsory portfolio-like self assesment procedures

#### **1.** Preparation

- Clear instructions what to prepare
- Integrated with the theory of the blockmodules (is very important)
- Self produced books and DVD's (also on MU-website) by Skillslab teachers
- Library facilities



**1. Preparation** 

## 2. Practice with part-task trainer (mannequins)



- 1. **Preparation**
- 2. **Practice with part-task-trainers**
- **3. Practice on each other**





- 1. **Preparation**
- 2. Practice with part-task-trainers
- 3. Practice on each other

#### 4. Practice with simulated patients







#### 'Kneebone- cases': procedural skills with simulated patients

- 1. **Preparation**
- 2. Practice with part-task-trainers
- **3. Practice on each other**
- 4. **Practice with simulated patients**

#### **5.** Practice with real patients





