Human Health and Disease: A Clinical Approach
Summer 2017, Session I, Section A
Location(s): DIS & University Copenhagen Hospitals

Instructors

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Isabel Engel
M.D. (University of Copenhagen, 2017). First year resident at the Emergency Department at Holbæk Hospital. Former employment as a research assistant at the Danish Headache-center, Department of Neurology, Rigshospitalet Glostrup. Previous Course Assistant for Human health & Disease. With DIS since 2016.
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Mette Kristoffersen
M.D. (Graduate from University of Southern Denmark 2014). First year residency in Pediatrics at Herlev Hospital. Previous experience in abdominal surgery, children’s psychiatry, orthopedic surgery and general medicine. With DIS since 2017.
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Course Assistant

Lea Rue Honoré
10th semester medical student at University of Copenhagen Medical School. B.Sc. Medicine, University of Southern Denmark, 2015. Clinical assistant at G.P. Eva Folkersen, Brønshøj. Pre-graduate researcher at Department of Hepatology, Rigshospitalet. With DIS since 2017.
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Lisbeth Borbye, Program Director
Science & Health Program Office, Vestergade 10-B12
Prerequisites
At least one year of biology and one year of chemistry at university level. The course is aimed at serious students with a documented academic interest in medicine.

Content
The clinical approach of the course implies studying symptoms, signs, diagnostic methods and treatment of the most important human diseases, writing patient case reviews based upon medical records, and patient interviews, visiting various clinical and diagnostic hospital departments, and performing physical examinations on phantoms or other students.

The course, however, does not provide regular medical training corresponding to that of medical students and does not include shadowing of doctors or physical examination of patients. Patient demonstrations are included in some, but not all, lectures.

Objectives
The objective of the course is to introduce students to the most important human diseases, their diagnosis and treatment, and to the clinical working methods of physicians as practiced at a large, Danish referral University Hospital in Copenhagen. Upon completion of this course, students will be able to:

1. Write a structured medical report
2. Explain the rationale for choice of tests and treatments in clinical practice
3. Copy basic manual skills (i.e. suture, IV access, catheter insertion) and give a basic explanation of the techniques
4. Discuss knowledge of human anatomy, physiology, and scientific context
5. Describe medical practice in a social, international, and scientific context
6. Outline the epidemiology of major diseases in both the industrialized world and the developing world.

Evaluation
Students will be evaluated based on participation, three written case reviews, two small tests and final examination.

<table>
<thead>
<tr>
<th>Tests (2 at 15%)</th>
<th>30%</th>
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<tbody>
<tr>
<td>Patient Cases (Clinical and Theoretical; 10 % each)</td>
<td>30%</td>
</tr>
<tr>
<td>Final examination</td>
<td>30%</td>
</tr>
<tr>
<td>Participation</td>
<td>10%</td>
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Class participation covers the following areas:

1. Attendance
2. Level of preparation and ability to answer questions asked in class
3. Involvement in class and group discussions

Electronics
Computer and cell phone use is not allowed in class unless specifically instructed to do so. It is distracting to both your classmates and your instructors, so please keep them off and out of sight during class!

Policy on late assignments:
Late papers will be accepted, but your grade for the paper will be reduced by half a point for each day that it is late.

Disability resources:
Any student who has a need for disability accommodations should contact acadsupp@dis.dk to coordinate this. Upon DIS approval, students should inform the instructor of accommodations within the first two days of class.
Academic Honesty:
DIS expects that students abide by the highest standards of intellectual honesty in all academic work. DIS assumes that all students do their own work and credit all work or thought taken from others. Academic dishonesty will result in a final course grade of “F” and can result in dismissal. The students’ home universities will be notified. DIS reserves the right to request that written student assignments be turned in electronic form for submission to plagiarism detection software. See the Academic Handbook for more information, or ask your instructor if you have questions.

Practical Information
Medical Practice & Policy faculty and staff have put many hours into selecting and organizing the readings for this course. Please make sure to read all the material assigned; the reading material has been carefully chosen and all of it is pertinent to your success in Human Health and Disease: A Clinical Approach. You have an obligation to your fellow classmates and yourself to come prepared to class. Lectures will not cover all of the assigned readings; however, you are still responsible for the information. If you have questions or need clarification about a reading or a lecture material do not hesitate to speak up and/or contact the professors for this course have no office hours, as such, please feel free to set up appointments via email. The professors’ emails have been provided; please feel free to email them or the program assistant to set up an appointment or simply ask a question.

Tests and Final
There will be a total of 3 tests throughout the course including the final. These tests will consist of a mix of short answer questions and essay questions. Tests may be given at the beginning of class or at the end. If the latter, the material covered in lecture that day may be on the test; so, make sure to pay close attention to the information discussed in lecture that day. Tests in class will generally last a maximum of 30 minutes depending on the amount of information covered. The final for this course will be cumulative and will be written in the same manner as tests. The final will be two hours in duration.

Clinical and Theoretical Patient Cases
There will be two different types of clinical cases in this Human Health and Disease course. The first will be the Clinical Case Reviews (or Patient Cases). During the course, students will be presented with a real patient and everyone will write up their own case history about the signs, symptoms, ailments and treatments for the specific patients that are introduced to. More details will be given on this activity as the time approaches for the first Clinical Case Review.

The other activity is the Theoretical Patient Case (TPC). The Theoretical Cases are specialized to the concentration that the class is working on during that time (i.e., the disease will relate to that day’s lecture material).

Everyone will be introduced to the Theoretical Patient Cases on June 1 and each student will be required to hand in a written assignment detailing their ‘differential diagnostic’ process; this assignment will be graded. In addition, the class will be split into groups on June 7 and will present a TPC to the class, their instructors, and the Course Assistant.

Important information:
- It is mandatory to attend classes in which clinical case reviews are presented.
- Missing a class would result in a ‘fail’ in that paper.
Required Readings
Reading assignments are listed below as part of the course content. They can be found in the textbook or posted on Canvas.

Textbooks:

*NOTE: Not all reading assignments will be covered in class, but all reading assignments are absolutely necessary in order to follow what is actually covered in class.
### Course Schedule Summer 2017

*subject to change*

<table>
<thead>
<tr>
<th>Date</th>
<th>Time &amp; Location</th>
<th>Lecture Topics</th>
<th>Lecturer</th>
<th>Text</th>
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<tbody>
<tr>
<td><strong>Week I</strong></td>
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<tr>
<td><strong>Mon May 22</strong></td>
<td>Please Pick up textbooks before class</td>
<td>Textbook Pick up, 10:00 – 16:00 in DIS, F24-206 (Frederiksberggade 24 – Room 206)</td>
<td></td>
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</tr>
<tr>
<td>14.30</td>
<td>DIS, Vestergade 7 Courtyard to depart to hospital</td>
<td>Course Overview Clinical Signs, Symptoms &amp; Paramedical Tests</td>
<td>Charlotte Isabel</td>
<td>On Canvas: “Notes on history taking” Ford: pgs. 1-40 (available on CANVAS)</td>
</tr>
<tr>
<td>15:30 – 18:00</td>
<td>Roskilde Hospital</td>
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| **Tues May 23** | 10:00-12:00 | Obstetrics and Gynecology  
- Anatomy & physiology  
- Menstrual cycle  
- Pregnancy & birth | Charlotte | On Canvas Hole Chapter 19 and 20 (until 20.4) |
| DIS, V10-A13 |                                                            |                                   |          |                                                   |
| 13:00-15:00 | DIS, V10-A13 | Pediatrics from a Global Health | Charlotte | On Canvas                                          |
| **Wed May 24** | 8.00 Meet CA at DIS outside of Front Desk to depart to Hospital | Cardiology  
- Anatomy and physiology of the heart  
- ECG  
- Investigations  
- Ischemic Heart Disease  
- Hypertension  
| 9:00 – 12:00 | Hvidovre Hospital Lokale 5 |                                   |          |                                                   |
| Lunch Provided by DIS |                                   |                                   |          |                                                   |
| 13:00 – 15:00 | Hvidovre Hospital Lokale 5 | Imaging Techniques in Diagnosis  
X-ray, ultrasound, computerized tomography, MRI, etc. | Ingunn | Lecture Notes: Radiology (On Canvas) |
| **Thurs May 25** | No Class, Danish Holiday |                                   |          |                                                   |
| **Fri May 26** | 10:00-11:30 | General Medicine  
Danish Healthcare System | Isabel | On Canvas:  
- General Practice and Primary Health Care in Denmark  
- HIT: executive summary: Denmark  
The Danish health care system Profile LINKS on Canvas |
| DIS, V10-A13 |                                                            |                                   |          |                                                   |
### Introduction to Respiratory System

**Isabel**  
*Hole's: p.450-462*

### Gastroenterology

- Anatomy and physiology  
- Most frequent symptoms and diseases  
  *Practice in abdominal exam*

  **Charlotte**  

#### Clinical Patient Case Due
*Uploaded to Canvas by 23.59*

### Week II

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Instructor</th>
<th>References</th>
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</thead>
<tbody>
<tr>
<td><strong>Mon</strong></td>
<td>15:00 – 15:45</td>
<td>Exam I</td>
<td>CA</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>May 29</strong></td>
<td>16:00 – 18:00</td>
<td>Orthopedic Surgery</td>
<td>Mette</td>
<td>Hole’s: Chapter 7 Ford: pp. 153-16</td>
</tr>
<tr>
<td><strong>Tues</strong></td>
<td>16:00-18:00</td>
<td>Geriatrics</td>
<td>Ingunn</td>
<td>On Canvas: The Geriatric Patient</td>
</tr>
<tr>
<td><strong>May 30</strong></td>
<td>08:00-10:00</td>
<td>Neurology</td>
<td>Isabel</td>
<td>Hole’s: 214-219 &amp; 230-247 O'Neill 218-223 &amp; 225-231 Ford: p.126-144 OR see Videos on CANVAS</td>
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<tr>
<td></td>
<td></td>
<td><em>Theoretical Patient Case Introduced</em></td>
<td></td>
<td>Nice to know: Hole’s p.443-450 O’Neill: p.69-77</td>
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*DIS, V10-A13*
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Location/Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fri Jun 2</td>
<td>13:00 – 13:45</td>
<td>Exam II</td>
<td>CA</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>14:00 – 16:00</td>
<td>Endocrinology</td>
<td>Mette</td>
<td>Hole 286-288, 292-294 and O’Neil 295-303, 314-326</td>
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<tr>
<td>Mon Jun 5</td>
<td></td>
<td></td>
<td></td>
<td>No Class, Danish Holiday</td>
</tr>
<tr>
<td>Tues Jun 6</td>
<td>13:00 – 15:00</td>
<td>Acute Medicine</td>
<td>Isabel</td>
<td>Videos on CANVAS</td>
</tr>
<tr>
<td></td>
<td>16:00</td>
<td>DIS Clinical Skill Session</td>
<td>Isabel, Mette, Charlotte</td>
<td>Look on Canvas for Program and Group you are assigned to</td>
</tr>
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<td></td>
<td>Meet CA at McDonalds of Nørreport St to depart to hospital</td>
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<td>CA</td>
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<tr>
<td></td>
<td>17:00 – 20:30</td>
<td>Gentofte Hospital</td>
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<tr>
<td>Wed Jun 7</td>
<td>12:00 – 14:00</td>
<td>Psychiatry</td>
<td>Mette</td>
<td>Canvas: Davidson’s Principles and Practice of Medicine, chapter 8, pp. 233-246 (Medical Psychiatry)</td>
</tr>
<tr>
<td></td>
<td>15:30 – 18:30</td>
<td>Theoretical Patient Case Presentations</td>
<td>Ingunn Lea</td>
<td>TBA</td>
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<tr>
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<td></td>
<td>Brush Up / Wrap Up Lecture Bring your questions and curiosities on any topic previously covered</td>
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<tr>
<td>Thurs June 8</td>
<td>10:00 – 12:00</td>
<td>Final Exam</td>
<td>S&amp;H Staff</td>
<td>Cumulative Exam</td>
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Transportation to Roskilde Hospital: You will be taking public transportation to Roskilde Hospital on days that you have class there and your transportation pass provided by DIS will cover you from DIS to class.

The following routes are recommended to get to Roskilde Hospital:
- Walk to Københavnhavn H (Copenhagen Central Station). Take Regional Train Re 1257 towards Nykøbing, F St. (departs from platform 8), Re 2557 towards Holbæk St., (departs from platform 8), take IC 857 towards Esbjerg St. (departs from platform 7), Re 1557 towards Kalundborg St. (departs platform 8). Get off at Roskilde St. Stop. Walk to Roskilde Hospital.
Transportation to Hvidovre Hospital: To get to the hospital, you will be using public transportation; your transportation pass provided by DIS will cover you from DIS to the hospital (zones 1, 2, 33).

The following routes are recommended to get to Hvidovre Hospital:

- Bus: 1A, 22, 65E, 200S stops at Kettegård alle, Hvidovre Hospital
- Bus: 132, 133 stops at Hvidovrevej, 5 min walk to Hvidovre Hospital
Transportation to Herlev Hospital:
To get to Herlev Hospital, you will be using public transportation. The transportation provided by DIS will cover you for the following zones 1, 2, and 31.

The following route is recommended to get to Herlev Hospital.
From DIS, walk to København H/Copenhagen Central Station. Take the C-train or H-train towards Frederikksund and get off at Herlev Station. From Herlev Station, take the 300S or 330E towards Nærum Station. Get off at Herlev Hospital and walk to class from there.

Please note that lateness is not acceptable, so ensure you are on time to class.