

Complexity of Cancer

Spring 2012

Instructors: Henrik Hansen & Joen Sveistrup

Mondays and Thursdays: 16:25-17:45

Location: Vestergade 23-401

Learning Objectives:

To obtain knowledge about tumor biology, therapy and the most common cancers

To appreciate that cancer is an experimental science in constant development

To appreciate the importance and validity of the 'established' therapies

To become aware of the impact of a cancer diagnosis for the individual patient

Prerequisites:

One year of biology and one semester of chemistry at the university level.

Practical Course Information

Complexity of Cancer 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 Complexity of Cancer. You have an obligation to your fellow classmates and yourself to come prepared to class. If you have questions or need clarification about readings or lecture material do not hesitate to speak up. The professors for this course have no office hours so please feel free to set up appointments with them via email. The professors' emails are below; please feel free to email them or the program assistant to set up an appointment or simply ask a question.

DIS Contacts

Anette Birck, Program Director, tel: +45 3376 5485

Stephanie Clemente, Program Assistant, tel: +45 3376 5477

Instructors:

Joen Sveistrup



M.D. (University of Copenhagen, 2007). Ph.D. Candidate, Resident at Department of Oncology, National University Hospital (Rigshospitalet). With DIS since 2010.

Henrik Hansen



M.D. (University of Copenhagen, 2008). Ph.D. candidate, Radiotherapy Clinic, National University Hospital (Rigshospitalet). With DIS since 2011.

Attendance

You are expected to attend all DIS classes when scheduled, and we will actively monitor attendance. Allowances will be made in cases of illness, but you will need to email Joen and Henrik in advance. If you miss multiple classes, the Director of Teaching and Learning, and the Director of Student Affairs will be notified and they will follow-up with you to make sure that all is well. Points will be deducted from your grade for more than one 'unexcused' absence.

Classroom Etiquette

Access to the Internet can be a valuable aid to the classroom learning environment. Students are welcome to use laptops, smart phones, and other devices in order to explore concepts related to course discussions and topics. Students are discouraged from using technology in ways that distract from the learning community (e.g. Facebook, texting, work for other classes, etc.). Doing so will influence your ability to perform optimal in class and hence influence your participation grade.

Evaluation

Participation:	10%
Tests (3 each 15%):	45%
Clinical Development (3 each 5%)	15%
Final:	30%

Tests and Final

There will be three tests throughout the semester. These tests will consist of a mix of multiple choice, short answer questions and short essay questions. Tests are 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 approximately 40 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.

Academic Honesty: Plagiarism and Violating the Rules of an Assignment

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 student's 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.

Disability Resources

Any student who has a need for disability accommodations should contact Sean green to coordinate this. Upon DIS approval, students should inform the instructor of accommodations within the first two weeks of class.

Assignments: Cancer Pharmacology, Clinical Development and Group Based Presentations of Selected Cancer Diseases:

During the course, the students are asked to make three papers (in groups of 3-5 people) on different topics: 1) a description of important medical anticancer therapies, 2) an experimental cancer protocol as part of early drug development, and 3) a description of emergencies in oncology.

Finally, the groups will present their work to the class.

Readings:

- Textbook: Cancer and its Management. Robert Souhami & Jeffrey Tobais. Blackwell Publishing. 5th and 6th editions in use, page numbers differ only slightly
- Film
- DIS Reading Compendium (below are the contents of the reading compendium) and is yours to keep.

Reading Compendium

****Code to be observed for the reading assignments:** In the compendium, a double line bordering the text means that this part of material is background for the particular subject and it is not required to be reproduced at tests. Please check the list of excluded material (found in the compendium) from the chapters and note the double lines in the compendium articles before reading the assignments.

2. Rubin, E, et al. *Neoplasia(Chapter 5 pp.165 – 207) in: Rubins Pathology.Emanuel Rubin 4ed. 2005*

6. DeVita et al: *Cancer:Principles and Practice of Onkology.7 ed. 2005 pp.2-24*

16. Kim, L. & Fine, H.: *Brain Cancer(pp. 26 – 27.) in: Boyiadzis, Michael: Hematology-Onkology Therapy. McGraw Hill. 2006.*

18. Von Gunten, C. & Weismann, D. *Hospice care and end-of-life issues: Hospice Care.(pp. 737 – 741) in: Boyiadzis, Michael: Hematology- Oncology Therapy.McGraw Hill.2006*

Course Overview:

Dates	Course material	
January 26	Welcome-intro to the course <u>Reading:</u> Textbook Souhami, R. & Tobias, J. <i>Cancer and its management</i> , 5 th . ed. Blackwell Publishing. Chapter 1	Henrik & Joen
January 30	Cancer Biology I <u>Reading:</u> Compendium #2	Joen
February 02	No Class	
February 06	Staging cancer <u>Reading:</u> (textbook) <i>Staging tumours</i> Chapter 4	Henrik
Short Study Tour: February 9-11		
February 13	Cancer Biology II <u>Reading:</u> Compendium #2	Joen
February 16	Hereditary Cancer (Cancer Biology III) <u>Reading:</u> Compendium #2	Joen
February 20	Test 1 Introduction to Group Work 1	Joen
February 23	Anticancer Therapy I - Radiotherapy <u>Reading:</u> (textbook) Radiotherapy Chapter 5	Joen
February 27	Anticancer Therapy II <u>Reading:</u> (textbook) <i>Systemic treatment for cancer</i> Chapter 6	Henrik
March 1	Anticancer Therapy III <u>Reading:</u> (textbook) <i>Systemic treatment for cancer</i> Chapter 6.	Henrik
Long Study Tour: March 3-11		
March 12	Group work 1 presentation	Henrik & Joen
Wednesday, March 14	Field Study: Anticancer Therapy IV - Immunotherapy <u>Reading:</u> Hand-outs	Henrik

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	8.30-10 Location: DIS, V23-401	
March 15	TEST 2 Intro to group work 2	Henrik
March 19	Female GU <u>Reading:</u> (textbook) <i>Gynecological cancer</i> Chapter	Henrik
March 22	Colon Cancer <u>Reading:</u> (textbook) <i>Tumors of the large and small bowel.</i> Chapter 16.	Joen
March 26	Male GU Cancer <u>Reading:</u> (textbook) <i>Testicular cancer</i> Chapter 19.; and <i>Genitourinary cancer</i> Chapter 18.	Joen
March 29	Group work 2 presentation	Henrik & Joen
Optional Tours/ Travel Break: March 31 – April 16		
April 16	Lung Cancer <u>Reading:</u> (textbook) <i>Tumors of the lung</i> Chapter 12. Intro to group work	Joen
April 19	Breast Cancer <u>Reading:</u> (textbook) <i>Breast cancer</i> Chapter 13.	Henrik
April 23	Palliative measures <u>Reading:</u> (textbook) <i>Supportive care and symptom relief</i> Chapter 7	Henrik
April 26	Cancer Screening <u>Reading:</u> TBA	Henrik
April 30	TEST 3	Henrik
May 3	Group work 3 presentation	Henrik & Joen
May 7	Movie	Henrik & Joen
Friday, May 18	Final exam Time: 12:00-14:00 Location: TBA	DIS staff