

2025 Akita University Faculty of Medicine Syllabus

Category : 臨床医学 VI (CC2)
Course Title : Clinical Oncology -principles & practice-, face to face - がん薬物療法の実際 -
Eligible Students : grade 5 Elective Course
Code : 71644006-27

1. Lead Instructor

Hiroyuki Shibata (Professor, Clinical Oncology, 6262)

2. Instructors

Hiroyuki Shibata (Professor, Clinical Oncology, 6262)

Koji Fukuda (Lecturer, Clinical Oncology, 6263)

Daiki Taguchi (Assistant Professor, Clinical Oncology, 6263)

3. Course Description Outline(Course Objectives)

1. Aims and Outlines

Understand caregiving behavior, ethical issues, preservation of patient safety, clinical evidence, and medical & social systems necessary to practice administering chemotherapy and other techniques to cancer patients. (1-1,1-2,3-1 ~ 3-7,4-1 ~ 4-8)

Students will understand carcinogenesis, cancer phenotypes, methods to treat cancer depending on histology and stages, and develop knowledges and skills needed to treat advanced cancer patients. (4-1 ~ 4-7)

1-1. Reach a diagnosis from patient information. (4-1 ~ 4-3)

1-2. Understand clinical features of disease and etiology. (3-1 ~ 3-4)

1-3. Participate in treatment-planning meetings. (4-1 ~ 4-3)

1-4. Understand viewing points to solve tumor-agnostic problems. (3-1 ~ 3-3,4-1 ~ 4-7)

1-5. Acquire basic medical examination skills (4-1 ~ 4-7)

1-6. Understand comprehensive treatment options with medical personnel (4-7 ~ 4-8)

2. Competencies to be learned

Plan and practice treatment(standard therapy and others) (4-1 ~ 4-3)

2-1.Understand purpose, indication, contraindica

4. Textbook/Reference Books

Cancer: Principles & Practice of Oncology, 9th edition (Wolters Kluwer/ Lippincott Williams & Wilkins)

5. Assessment

Students are evaluated through attendance and a mini-test.

Students provide care to patients, including reporting on the condition of the patients each day.

Consult a new outpatient, and report the findings in the following morning session.

CC2 students will evaluate CC1 students.

Students are required to summarize their experience on the course through a report written in the style of the Japanese Society of Internal Medicine. Outstanding examples may be published in English.

6. Out of Class Study/Message

Gather in front of the nurse station of the 6th floor of the 2nd building in the hospital at 8:30 a.m. on the first day.

From week 2, training will be delivered in the same way. Outstanding reports may be presented at the annual meeting of congress of the Japanese Society of Internal Medicine, Japanese Cancer Research, and the Japanese Society of Clinical Oncology.

Schedule	Contents of Class
<p>1 Mon [8:30-17:00]</p> <p>Subtitle Understanding cancer treatment</p> <p>Instructor H Shibata, K Fukuda, D Taguchi</p>	<p>1) Practice (communication with patients, examination and treatment of them)</p> <ol style="list-style-type: none"> 1. Explain treatment with cancer drugs, and the adverse effects. 2. Explain action mechanisms of molecular targeted agents, and the adverse events. <p>2) initial examination of cancer patients (notification, interview, collection of medical history, informed consent) Address the following issues:</p> <ol style="list-style-type: none"> 1. Identify each clinical problem, and ascertain the possible approaches to treatment. 2. Practice three methods (interview, physical examination, laboratory data) of obtaining medical information 3. Make a clinical hypotheses using knowledges of the basic sciences. 4. Consider clinical hypotheses collecting the information based on hypothesis. 5. Conduct diagnostic procedures and treatment simultaneously. 6. Decide on treatment together with the patient. 7. Understand the importance of communication with other caregivers. <p>3) Clinical practice for outpatients (Chemotherapy for outpatients and oncologic emergency)</p> <ol style="list-style-type: none"> 1. Blood cell count, coagul
<p>2 Tue [8:30-17:00]</p> <p>Subtitle Understanding cancer treatment</p> <p>Instructor H Shibata, K Fukuda, D Taguchi</p>	<p>1) Practice (communication with patients, examination and treatment)</p> <p>2) Initial examination of cancer patients (notification, interview, collection of medical history, informed consent)</p> <p>3) Clinical practice to outpatients (Chemotherapy and oncologic emergency)</p> <ol style="list-style-type: none"> 1. Appropriate attitude 2. Communication skills 3. Obtaining the history of illness systemically (primary complaint, medication or drug usage, history of allergy, past illness, family history, behavior, preferences, social and occupational history, lifestyle, travel history, etc.) 4. Examine a patient with correct positioning 5. Collect the information and describe it in POMR (Problem Oriented Medical Record) style, and report these findings to the instructor. 6. Describe the clinical course SOAP (subjective, objective, assessment, plan) style. 7. Keep in mind to summarize a clinical course of case in a report and present it in a meeting. 8. Security ensure patient privacy is maintained.

Schedule	Contents of Class
<p>3 Wed [8:30-17:00]</p> <p>Subtitle Understanding cancer treatment</p> <p>Instructor H Shibata, K Fukuda, D Taguchi</p>	<p>1) Practice (communication with patients, examination and treatment)</p> <p>2) First examination of cancer patients (notification, interview, collection of the medical history, informed consent)</p> <p>3) Clinical practice to outpatients (Chemotherapy for outpatients and oncologic emergency)</p> <p>Address the following issues;</p> <ol style="list-style-type: none"> 1. Respect for patients. 2. Consider patient safety and respond to adverse events. 3. Consider patient privacy, sense of shame, and the physical and mental anguish of their illness and treatment. 4. Precautions of infection prevention 5. Correct manner and attitude. 6. Consider patient's physical condition good enough to examination. 7. Estimation of body surface area, body mass index, and nutritional condition of patient. 8. Palpation of artery of the upper limbs, and measure blood pressure by palpation. 9. Measure pulse by bilateral radial artery palpation. 10. Measure respiration, and find respirational disorders. 11. Measure blood temperature 12. Palpation of artery of the lower limbs, and measure blood
<p>4 Thu [8:30-17:00]</p> <p>Subtitle Understanding cancer treatment</p> <p>Instructor H Shibata, K Fukuda, D Taguchi</p>	<p>1) Knowledge and skills to treat cancer patients</p> <ol style="list-style-type: none"> 1. Blood vessel puncture with simulator 2. Assist in a position change of patient, and help to transfer the patient by wheelchair or stretcher. 3. Sterilization of skin 4. Use of ointment 5. Maintaining peripheral blood access route 6. Injection (intracutaneous, subcutaneous, intramuscular, intravenous routes) 7. Introducing central venous catheter
<p>5 Fri [8:30-17:00]</p> <p>Subtitle Understanding cancer treatment</p> <p>Instructor H Shibata, K Fukuda, D Taguchi</p>	<p>1) Practice (communication with patients, examination and treatment)</p> <ol style="list-style-type: none"> 1. Explain treatment with cancer drugs, and adverse effects. 2. Explain action mechanisms of molecular targeted agents, and adverse events. <p>2) Initial examination of cancer patients (notification, interview, collection of the medical history, informed consent)</p> <p>Address the following issues;</p> <ol style="list-style-type: none"> 1. Identify each clinical problem, and ascertain possible approaches to treatment. 2. Practice three methods (interview, physical examination, analysis of laboratory data) of obtaining medical information. 3. Make clinical hypotheses using knowledge of basic sciences. 4. Consider clinical hypotheses collecting the information based on hypothesis. 5. Conduct diagnostic procedures and treatment simultaneously. 6. Decide on treatment together with the patient. 7. Understand the importance of communication with other caregivers. <p>3) Clinical practice for outpatients (Chemotherapy for outpatients and oncologic emergency)</p> <ol style="list-style-type: none"> 1. Blood cell count, coagulation test, u