

Pharmacy Division

Introduction

The Pharmacy Division provides services that include the counseling for inpatients, dispensing of drugs, preparation of injections, aseptic mixtures for chemotherapy, the collection and dissemination of drug information instructions for drug use, and management of investigational drugs. It is extremely important to conduct clinical trial for the establishment of standard therapies. The pharmacist in a ward provide the pharmaceutical consultation for inpatients, and preparation of injection, and a pharmacist in nuclear radiation had been assigned for producing and qualifying the radiopharmaceuticals for positron emission tomography(PET) at Diagnostic Radiology Division.

Routine Activities

In the division's, pharmacists prepare the medicines by computerized ordering system and provide drug information for outpatients at request of doctors. Ninety percent prescriptions written at the National Cancer Center Hospital East(NCCHE) for outpatients are filled at outside pharmacists. The division's provides services such as the preparation of injections (including IV admixtures and aseptic preparation of anticancer drugs for outpatients receiving chemotherapy at the day care center, and for a part of inpatients). Pharmacists manage the medical supplies and the inventory (including narcotic, psychotropic, investigational drugs and the specified bio-derived products). For inpatients, pharmacists provide the pharmaceutical consultations. For the medical staffs, we provide a computerized drug information (including important side effects, new drug applications), send out information about new drug adoptions and drug deletions via email to local

pharmacies. The drug inventory of NCCHE is checked by using the computer system, and the division acts as a secretary to the pharmaceutical affairs committee responsible for the adoption of drug. With regard to PET, 18F-FDG PET diagnoses were performed annually for various cancers. Additionally, 11C-methionine PET imaging were studied for lung cancers and brain tumors.

New Developments in 2005

The section of clinical services provides comprehensive direct patient care service collaborates, and promotes rational drug therapy. We started satellite at division of hematology and oncology. Clinical services provided are tailored to patient care needs and include: pharmacotherapeutic monitoring, pharmacokinetic dosing, patient education, IV admixture, drug interaction check. We assist in drug therapy management through participation in drug regimen design and monitoring. We provide pharmacokinetic dosing adjustments for drug therapy, drug information for all members of the health care team and precept pharmacy master students through experiential training.

● K.Endo ●

| Prepared in hospital pharmacy | 2003 | 2004 |
|------------------------------------|----------|----------|
| Total | 78,864 | 74,794 |
| Inpatients | 68,971 | 70,291 |
| Outpatients | 9,893 | 4,503 |
| Taken to outside pharmacies | 35,638 | 39,076 |
| (% of prescription filled outside) | (78.27%) | (89.66%) |
| Injections | | |
| Total | 131,203 | 112,455 |
| Inpatients | 115,867 | 92,612 |
| Outpatients | 15,336 | 19,843 |

Number of Prescription

Aseptic Preparation of Injection Mixture

| | 2004 | 2005 |
|------------------|--------|--------|
| Anticancer drugs | 16,005 | 18,882 |
| Others | 3,696 | 4,047 |

Number of House Preparations

| | 2004 | 2005 |
|---------------|------|------|
| Sterilized | 7 | 7 |
| Nonsterilized | 139 | 115 |

Investigational Drugs Used

| | 2004 | 2005 |
|------------------|-------|-------|
| Newly registered | 24 | 25 |
| Ongoing study | 37 | 40 |
| Prescriptions | 1,714 | 1,646 |

Amounts of Drugs Consumed

| | 2004 | (%) | 2005 | (%) |
|-----------------------------|-----------|--------|-----------|--------|
| Total consumption | 2,442,385 | 100.00 | 2,318,439 | 100.00 |
| Internal/external medicines | 255,613 | 11.03 | 260,661 | 11.24 |
| Injections | 1,613,431 | 69.59 | 1,594,233 | 68.76 |
| Blood | 118,157 | 5.10 | 98,729 | 4.26 |
| X-ray | 155,614 | 6.71 | 138,342 | 5.97 |
| RI | 66,757 | 2.88 | 57,888 | 2.50 |
| Others | 232,813 | 10.04 | 168,496 | 7.27 |

Unit: 1,000 yen