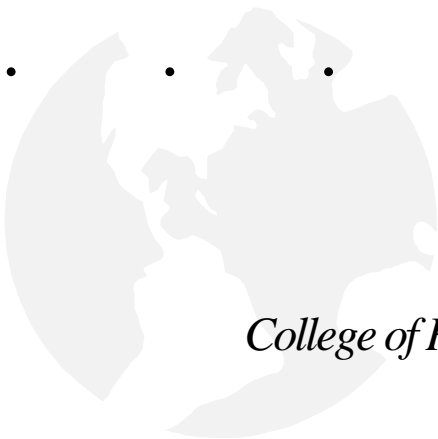


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Division of Drug Information Service
*providing drug information education, products and
services since 1966*

Customized Drug Information Training On-Site at DDIS



College of Pharmacy, The University of Iowa

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country

Prepared: July 2011
Printed: 15 July 2011

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Customized Drug Information Training

Division of Drug Information Service

The Division of Drug Information Service (DDIS) was created within the College of Pharmacy in 1965. Its basic functions and activities fall into three areas:

- *publishing,*
- *drug information service,*
- *instruction.*

Mission

The Division of Drug Information Service provides drug information systems and services throughout the world to improve human health care.

Objectives

- To educate pharmacy students to serve as effective providers of drug information;
- To provide an organized database of specialized information on drug therapeutics to meet the drug information needs of practitioners;
- To expand the role of the pharmacist in providing drug information services to the hospital and community;
- To stimulate the effective use of drug information resources by pharmacists, physicians and other health care professionals;
- To promote patient care through rational drug therapy by the improved availability and use of drug information.

Staff and Facilities

DDIS occupies over 4,000 square feet of office space in the University BioVentures Center. The current staff complement is sixteen permanent staff, including a professional staff of seven pharmacists (five with advanced degrees), a database analyst and an accountant. The division also supports undergraduate, graduate and Pharm.D. students, who assist the pharmacy staff.

Publishing Activities

The Division publishes an internationally recognized bibliographic retrieval database, a web site that evaluates herbal monographs, a comprehensive drug vocabulary with thesaurus and a quarterly newsletter.

Iowa Drug Information Service (IDIS): is an internationally recognized bibliographical database service which provides health professionals with easy retrieval of primary literature from over 200 medical and pharmacy journals.

Approximately 25 percent of these journals are published outside the United States. About 1800 articles are added to the database each month and these monthly updates are sent out to *IDIS* subscribers, or are made available to subscribers on *IDIS/Web*. Articles to be entered into the database are selected and indexed based on their clinical relevance, thus reviewing and evaluating medical literature is integral to the indexing process. Each article is indexed according to its main points. The indexing scheme includes disease, drug therapy, article type (randomized, systematic review, case report, etc.) and other key areas such as special populations, side effects, drug interactions, pharmacokinetics or pharmacodynamics, drug utilization and economic issues. Articles selected for inclusion in the database relate to drugs and drug therapy in humans. Animal studies are rarely included.

World of Drug Information: an 8-16 page quarterly newsletter that contains a lead clinical article, a case-based clinical feature article, and a listing of recent FDA drug approvals with an annotated bibliography.

Drug Thesaurus and Vocabulary: *IDIS* has developed a comprehensive controlled drug vocabulary, maintained since 1965. Constantly updated, this Vocabulary contains over 8,900 valid drug terms and the Thesaurus has over 23,300 terms, including cross-reference terms.

FDA Approval Packages: since 1997 *IDIS* has been indexing U.S. Food and Drug Administration (FDA) Approval Packages for newly approved drugs. The *IDIS* staff organize these voluminous packages into a standard format and construct a Table of Contents. Many of the key studies on safety, efficacy, toxicology and pharmacology within these approval packages are not published elsewhere.

Drug Information Service Activities

The Division offers a variety of drug information/informatics services to industry, other academic institutions, community pharmacy practices and other health care providers. While many of these services are provided directly by the Iowa Drug Information Network, some projects are managed by the entire Division.

Iowa Drug Information Network (IDIN)

IDIN is an educational and service program designed to: (1) provide drug information and evaluative services, (2) instruct Pharm.D. students in drug information and evidence-based pharmacy practice, and (3) support the drug information role of pharmacists providing pharmaceutical care. While some of IDIN's activities include traditional drug information center functions, other activities and goals are unique.

IDIN currently contracts membership services to small hospitals, professional pharmacy chains, and home health care providers. It seeks to not only provide drug information to health care practitioners, but also to improve the drug information skills of practitioners and expand the drug information role of pharmacists. The network aspect of IDIN is important. Membership in the network is envisioned to include both being a user of and being a participant-provider of the services. College of Pharmacy students use IDIN services from off-campus clerkship sites. Membership fees are assessed to non-student users of the service. The Division maintains a web-based drug information question and answer database (*IDIN/Answers*) that offers continuing access to answered questions.

Customized Drug Information and Evaluation Services

Using its expertise and extensive resources, the Division has provided consultation service for formulary management, drug use policy development, and evaluation/analysis of clinical therapeutic and clinical pharmaceutical topics.

Educational Activities

Collegiate

Three members of the Division hold academic titles in the College of Pharmacy's Clinical and Administrative Pharmacy Division. Courses required in the Pharm.D. curriculum (Pharmaceutical Care, Drug Information and Drug Literature Review and Evaluation) are taught by DDIS members. An elective Drug Information Clerkship for fourth year Pharm.D. students and a Pharmaceutical Informatics/Drug Information residency are also offered on-site at IDIN.

Drug Information Teaching Activities: At DDIS and At Host-Site

The Division provides a drug information educational opportunity through its 2-12 week customized drug information instruction and leadership program on-site at the Division. This program consists of lectures, readings, discussions, assignments, participation in ongoing projects, verbal and written presentations and experiential training. The World Health Organization and foreign state governments have funded fellowships for this training for internationals. The Division has hosted and provided training to top pharmacists in industry, hospital and government settings from Malaysia, India, Ghana and Saudi Arabia. Training has also been provided for drug information and clinical pharmacy specialists from hospitals and from colleges of pharmacy in the U.S.

In addition the Division will provide customized drug information training at a host-site for 1-2 weeks. These details are provided in a separate document for Remote Host-Site Training. The training program is detailed further in this prospectus.

Summary

The University of Iowa, College of Pharmacy Division of Drug Information Service has a long history of excellence and is uniquely qualified and technically well suited to provide drug information through publications, bibliographic databases, teaching and individual service. The Division is located in a world-class health care education and treatment center. Extensive library resources, many in electronic format, are immediately accessible. The Division's professional staff is noted for providing objective, academically based drug information education and services to a variety of health care professionals. Individuals with expertise in many pharmaceutical and medical specialty areas are available for consultation with the Division. A seasoned clerical, administrative and information technology staff ensures predictable, professional, and timely service to the Division's subscribers, members and clients. With its complement of highly qualified staff and available resources, DDIS continues to expand its opportunities for provision and instruction of drug information.

Customized Drug Information Training Program On-Site at DDIS

Goals

The program is designed to provide *flexible, customized training* in the areas of drug information and bioinformatics to practicing pharmacists. Each training session is tailored to meet the individual needs of the pharmacist and his or her supporting institution. Dependent upon the individual, the program can be basic or advanced. Program faculty will consult with the pharmacist to assess his or her current knowledge and skill level and establish their educational goals for the program.

Description of Training Site and Resources

The entire resources and activities of the Division (publication, drug information services, and instruction) are available for instructional and training purposes. While the Division is a publisher of an international index/abstract database and has provided training programs in this area, generally the emphasis of an individual's training program is not database publication, but drug information services and bioinformatics.

DDIS maintains an internal library of over 350 paper and/or electronic textbooks and over 200 U.S. and international pharmacy and medical journals.

The Division operates a drug information network, *Iowa Drug Information Network (IDIN)*. *IDIN* supports and nurtures two pharmacy practice changes that emerged in the 1990s — pharmaceutical care practice and clinical training of pharmacy students at community and family practice sites throughout the State of Iowa. The innovative service seeks to not only train professional degree pharmacy students, but also to improve and support the drug information role of practicing pharmacists.

IDIN is an educational and service program designed to: (1) provide drug information and evaluative services and (2) support the drug information role of pharmacists providing pharmaceutical care. While some of *IDIN's* activities include traditional drug information center functions, other activities and goals are unique.

IDIN Services to Members

IDIN seeks to not only provide drug information to health care practitioners, but also to improve the drug information skills of practitioners and expand the drug information role of pharmacists. The "network" aspect of *IDIN* is important. Membership in the "network" is envisioned to include both being a user of and being a participant-provider of the services. College of Pharmacy students use the *IDIN* services during off-campus clerkships. Membership fees are assessed non-student users of the service.

Services provided by *IDIN* to its members include:

- personal help in responding to individual drug information questions,
- electronic access to key full text and bibliographical drug information resources,
- electronic communication links to the staff of *IDIN* and other network pharmacies and
- education and training in the efficient use of drug information resources and evaluation of the literature.

Network members are provided personal assistance in responding to their drug information questions. Toll-free telephone, as well as electronic network (e-mail) access,

connects the members to the drug information staff for assistance. The staff will provide assistance in defining the question, conducting a literature search, evaluating the information available, and formulating a response or drug therapy recommendation. Members may request assistance with any or all of the above steps in the process of drug information provision. IDIN staff will also provide an evidence-based response/recommendation to the member.

To provide electronic access to drug information references a computer network has been created. The network server is located at the University of Iowa and accessible to authorized members through an Internet connection. Members are provided assistance in locating an Internet access provider and information on the necessary configuration of hardware and software that they will need in order to access the IDIN electronic resources. Training is provided, as needed, in order to ensure that a member can access the network.

Members can access electronic resources 24 hours a day, 7 days a week on their own, or submit questions to the drug information staff via email or by phone during normal business hours (8:30am to 4:30pm Central Time).

IDIN Services to Non-Members

The resources and expertise of IDIN in the areas of drug information, informatics and telehealth are available for specific projects and contracts with health care institutions and companies.

Other Resources Available

- FDA licensed pharmaceutical manufacturing facility within the College of Pharmacy,
- an extensive health science library system with multimedia instructional resources,
- internationally recognized pharmaceutical care department at UI Hospitals and Clinics,
- a state-wide, state-owned fiber optic network,
- collaboration with the pharmacy department of the local community hospital.

Components of Training Program

Curriculum

Each instructional program is customized for the individual(s) and the sponsoring institution. Training provided by the DDIS faculty may include:

Drug Information Activities

- gain tools to establish and manage a DI service
- personal help in verbal/written responses to DI questions
- apply the 7 steps to responding to DI questions
- compare and assess key DI resources
- demonstrate efficient use of the *IDIS* database
- conduct quality assurance and documentation of services
- compare drug and disease vocabularies for information systems

Literature Evaluation

- apply basic evaluation of medication literature
- explain selection of best evidence and advanced literature evaluation methods
- interpret comparative effectiveness studies and systematic reviews

Other Related Activities

- perform drug use review/medication use evaluation
- assess formulary management/pharmacoeconomic decisions
- describe adverse drug reaction reporting systems
- develop continuing education programming for pharmacists
- explain the role of journal clubs
- evaluate newsletters and current awareness programs
- demonstrate how records and resources can be centrally shared and stored
- evaluate specialized text and literature indexing, classification and retrieval systems
- explore medical and pharmacy informatics topics: computerized patient records, decision support systems and knowledge-bases

The program content is delivered through a combination of lectures, readings, discussions, assignments, participation in ongoing projects, verbal and written presentations and experiential training.

Program Faculty

Three members of the Division hold academic titles in the College of Pharmacy's Clinical and Administrative Pharmacy Division. These individuals have developed and are responsible for the following teaching activities. The division faculty members provide over six semester hours of required didactic course work each academic year.

Kevin G. Moores, Pharm.D., Associate Professor (Clinical)
Vicki Kee, Pharm.D., BCPS, Assistant Professor (Clinical)
Ronald A. Herman, Ph.D., Professor (Clinical)

Four additional members of the Division's pharmacy staff participate in the training.

Mary Ann Cull, R.Ph.
Bradley P. Gilchrist, R.Ph.
Nicola R. Sarrazin, Pharm.D.
ThaiBinh TonThat, Pharm.D.

Fees and Arrangements

The program is not intended to provide University course credit, thus the training program will be less than 15 weeks. Programs are intended to be a minimum of two weeks and can extend up to 12 weeks.

2012 Fees

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|-------------------------------------|-------------|
| Week one | \$3,735 USD |
| Week two | 2,910 |
| Week three and all subsequent weeks | 1,750 each |

The above fees are for training. The individual is responsible for applicable U.S. and home travel/visit authorizations and documents, travel/medical/life insurance, transportation, housing and meals during the training period. The DDIS can help arrange housing.

Local Arrangements

Housing arrangements can be made for the trainee. The University does have short-term housing available for visiting international scholars — subject to availability. Housing arrangements can also be made for the trainee at the Iowa House, a "hotel" within the University of Iowa Memorial Union. A room, with bath, telephone and television is approximately \$85 USD per day plus tax. Laundry facilities and restaurants are within walking distance. The Iowa House is on the University's central campus, within three city blocks of downtown Iowa City. The Iowa House arrangements are based on availability; alternate sites in Iowa City are motel rooms.

<http://imu.uiowa.edu/iowahouse/>

City bus transportation is available. Free campus bus (Cambus) transportation is also available to the training site(s).

Training Site

The trainee will be provided with a semi-private work area at DDIS to use during the program. Work area includes a personal computer with basic software packages and Internet access, reprints or copies of all training materials will be given to trainee.

How to Contact Us

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