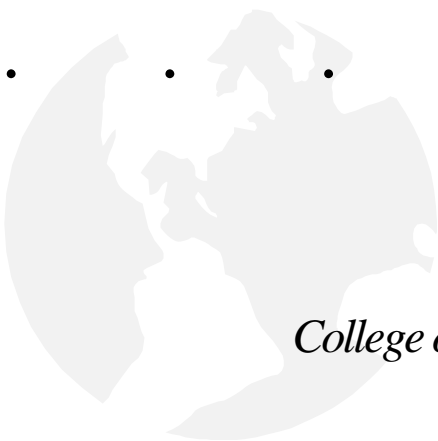


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Division of Drug Information Service  
*providing drug information education, products  
and services since 1966*

# Customized Drug Information Training At Remote Host-Site



*College of Pharmacy, The University of Iowa*

*Prepared for:*

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**Title**

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# Customized Drug Information Training

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## 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*.

#### *International Drug Information Teaching Activities: At DDIS and At Host-Site*

The Division provides an international 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. The Division has hosted and provided training to top pharmacists in industry, hospital and government settings from Malaysia, India, Ghana and Saudi Arabia.

In addition the Division will provide customized drug information training at a host-site for 1-2 weeks. This 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 At Remote Host-Site

### 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 or pharmacists and their supporting institution. Dependent upon the individuals, the program can be basic or advanced. Program faculty will consult with the local pharmacists to assess the current knowledge and skill level of the individuals to be trained and establish their joint educational goals for the program.

### Description of Training Site and Resources

The training faculty will adapt the instruction to fit the resources available at the host-site. The host-site should already be a subscriber to *IDIS/Web* or *IDIS/CD-ROM*. Ideally the host-site would have high speed access to the internet and sufficient computers that each trainee can access the programs that will be demonstrated. The faculty will train the users how to efficiently use the *IDIS* database and other resources that the client's may have available for the provision of drug information. In addition, the faculty can provide training on the operation of a drug information service.

Training in drug information services and bioinformatics can be done face-to-face and/or in larger groups. For group training a room with computer projection capabilities, internet access and preferably a computer for each trainee are desirable. Most of the face-to-face training will be done at the client's normal work station using the resources that are routinely available.

## 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 program.

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 intended to provide practical training at the host-site using resources currently available. The length of the program will be customized to meet the client's needs. Generally training will be one week and rarely would exceed two weeks.

## **2012 Fees**

- The training fee is \$3,735 USD for one week (5 days) and \$580 USD for each additional work day.
- The client is responsible for round trip transportation fees (including air fare, airport fees and local transportation) for the faculty member from Iowa City, Iowa, to the host-site.
- The host-site is responsible for providing housing accommodations and meals for the inclusive travel and training days.
- The host-site is responsible for providing round trip transportation from the lodging to the training site each day.

## **How to Contact Us**

### **U.S. Mail**

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### **Telecommunications**

Voice 319-335-4800  
Toll-free U.S. 1-800-525-4347  
Fax 319-335-4440

### **Internet: World Wide Web Sites**

<http://www.uiowa.edu/~idis/>

<http://www.uiowa.edu/~idin/>