Introduction to Pharmaceutics: The Art and Science of Dosage Form Design
Tuesday, May 2, 2017 11:00 a.m.–12:30 p.m. (ET)
Course ID # 2749 Available On-Demand starting 5/3/17

who should attend
This online training will benefit professionals in the following industries:
Pharmaceutical, Biotechnology, Medical, Dispensing Pharmacy, Compounding Pharmacy, Veterinary Science, Food, Cosmetics, Nutraceutical, Dietary Supplements, Herbal Medicine, Medical Device, Chemical Engineering, Fitness and Sports Medicine, Alternative Medicine

Potential job functions that would apply:

In departments such as:
Manufacturing, Production, Quality Assurance and Quality Control, Operations, Research and Development, Medical Affairs, Regulatory Affairs, Patent and Legal Affairs, Clinical Pharmacy, Dispensing Pharmacy, Compounding Pharmacy, Clinical Trials, Clinical Pharmacology and Pharmacokinetics

learning objectives
Upon completion of this training, you will be able to:
• Define terms pharmaceutics and biopharmaceutics and identify principles of dosage form design
• Analyze biopharmaceutical, drug, and therapeutic factors affecting the dosage form design
• Describe the formulation development, preparation, and quality control of various solid and liquid dosage forms intended for various routes of administration
• Discuss different types of parenteral products and identify the role of excipients in parenteral formulations
• Recognize formulation aspects of protein and peptide therapeutics

course description
This 90-minute accredited training course introduces the participants to topics of pharmaceutics and the principles of dosage form design and provides knowledge on pharmaceutical dosage forms for various routes of administration such as oral, ocular, nasal, otic, topical and transdermal, pulmonary, vaginal and rectal and parenteral. This course is designed to help participants understand the role of excipients in preserving the stability and improving absorption of the drug in different dosage forms. Due to their significance in the contemporary pharmaceutical industry, a special emphasis is placed on the topic of protein formulation and delivery.

Review of Learning Objectives
Module 1: Principles of Dosage Form Design
• Introduction to pharmaceutics and biopharmaceutics
• Dosage forms available for various routes of administration
• Biopharmaceutical considerations in dosage form design: Factors affecting absorption of drugs from different routes of administration
• Drug factors: Physical and chemical properties of drug substance
• Therapeutic considerations: Clinical indication to be treated and patient-related factors

Module 2: Formulation Design and Development of Solid and Liquid Dosage Forms
• Oral solid and liquid dosage forms
• Topical and transdermal dosage forms
• Ocular, nasal, and otic dosage forms
• Pulmonary dosage forms
• Vaginal and rectal dosage forms

Module 3: Formulation Aspects of Parenteral and Protein Therapeutics
• Compare different parenteral routes of administration and discuss different types of parenteral products
• Sterilization process and methods of sterilization for parenteral products
• Excipients used in parenteral formulations
• Protein formulations: Monoclonal antibodies, enzymes, vaccines, and other biologicals
• Types of protein degradation and measures to improve the stability of proteins
• Excipients used in protein formulations

Question and Answer Session

For more information see reverse side
Kash Yellepeddi, B.Pharm., Ph.D., College of Pharmacy, Roseman University of Health Sciences

Kash Yellepeddi is Assistant Professor of Pharmaceutical Sciences, College of Pharmacy, Roseman University of Health Sciences, Utah and Adjunct Assistant Professor, Department of Pharmaceutics and Pharmaceutical Chemistry, College of Pharmacy, University of Utah, Utah. Dr. Yellepeddi has 12 years of experience in teaching pharmaceutics to students at bachelors, masters, and doctoral levels. Currently, Dr. Yellepeddi coordinates pharmaceutics and pharmacokinetics courses for doctor of pharmacy students. His research interests include nanotechnology-based drug delivery systems, dosage form design and evaluation, and development of active learning strategies in the field of pharmaceutics. Before joining academia, Dr. Yellepeddi worked in industries such as Sanofi, India, and Mallinckrodt, USA.

tuition and registration

TUITION*:  Single Rate: U.S.$295.00 per person  Group Rate: U.S.$245.00 per person**

Register at www.cfpa.com. Enter Course ID# 2749 into Search. To register click Register Now.

For Questions and Information call Customer Service at 732-613-4500.

Please Note: Multiple participants are not authorized to share access provided to a single registrant, a single dedicated seat license must be purchased for each individual. CfPA reserves the right to cancel access or collect the group rate payment if this requirement has been violated. Only registered participants will receive accreditation.

System Requirements: PC-based attendees: Windows(R) 7, Vista, XP or 2003 Server/Macintosh(R)-based attendees: Mac OS(R) X 10.4.11 (Tiger(R)) or newer

The Center for Professional Advancement has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 11130 Sunrise Valley Drive, Suite 350, Reston, VA 20190. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. The Center for Professional Advancement is therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEU will be awarded for participation in The Center for Professional Advancement’s courses at the rate of .1 CEU per contact hour. CEU will be awarded only upon successful completion of the entire course and 70% accuracy in the required Learners’ Assessment. This course offers a total of 1.5 contact hours or .2 CEUs (CEUs rounded up).

who we are—“Celebrating 50 Years”

The Center for Professional Advancement (CfPA) is the largest accredited technical training organization in the world with a curriculum of approximately 450 short courses in 15 industries including Pharmaceutical, Biotechnology, Medical Device, Chemical, Cosmetics, Food and more. Since our founding in 1967, we have successfully trained nearly a half million people worldwide in topics ranging from basic and introductory concepts to new advances and cutting-edge technology, and current U.S. and European regulations. CfPA courses are offered in a variety of formats to fit you or your company’s training needs:

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Virtual Attendee: Ideal for those who need the training but cannot attend in person. For more information visit: www.cfpa.com/virtualattendee

courses of interest

- CGMPs for Pharmaceutical Life Cycle Management
  course ID# 2474

- Documentation Management and Control
  course ID# 1866

- FDA Drug Approval, Regulation and Compliance
  course ID# 587

- Introduction To Pharmaceutical cGMP–An Online Course
  course ID# 2244

- Pharmaceutical cGMP-Quality Systems–An Online Course
  course ID# 2245

- Pharmaceutical Process Development
  course ID# 1358

- Pharmaceutical Technology Transfer and Post-Approval Changes
  course ID# 2671

- Quality Management and Compliance in the Pharmaceutical and Related Industries
  course ID# 224

terms and conditions

*Payment: Tuition payable in US funds net of all charges. Payment is due at time of registration in the form of a credit card. Please contact CfPA’s Customer Service for other payment options.

**Group Rate: The Group Rate is for two or more enrollments, up to five registering from the same company at the same time. For groups of six or more, please contact Customer Service for group pricing.

Cancellations/No Show: “Live” - Registrants may cancel up to two working days prior to the course start date and will receive a letter of credit to be used towards a future course up to one year from date of issuance. No credit will be issued for no-shows and/or cancellations less than two working days prior to the course. *“On-Demand”- No refund or credit will be issued for no-shows and/or cancellations of on-demand training courses. CfPA is not responsible for any outside related costs incurred by registrant’s cancellation.