

Module 11: The US Regulatory Environment

30th October – 1 November 2023



Location: Fletcher Hotel, Rotterdam Airport, Rotterdam, Netherlands

Module Leader(s): Nancy Pire Smerkanich DRSc, Assistant Professor, Department of Regulatory & Quality Sciences, University of Southern California, Los Angeles, USA

Day 1: Monday 30th October

| Time | Activity | |
|---------------|--|--|
| 16.00 | Registration | |
| 16.15 – 16.30 | Welcome & Introduction to the Module | |
| 16.30 – 17.30 | Lecture 1: History and Basis of Medical Product Regulation in the USA <ul style="list-style-type: none">• US legislative process• Role and structure of the FDA• FDA jurisdiction and statutory powers | Scavenger Hunt |
| 17.30 – 18.30 | Relevant legislation, policy and guidance documents New Student Tutorial | Dr Zamzam Ahmed Course and programmes Director |
| 19.30 | Close for evening | |

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Day 2: Tuesday 31st October

| Time | Activity | Workshop |
|----------------------|---|----------------------|
| 09:00– 10.30 | Lecture 2: Regulatory Pathways and Designations Eligibility and Practical issues <ul style="list-style-type: none"> • FD&C 505 and PHS 351 • Fast Track & Breakthrough Designations • Accelerated Approval • Priority Review • Orphan Drug Designation | Use of drugs@fda |
| 10.30 – 10.45 | Refreshment Break | |
| 10.45 – 12.00 | Lecture 3: Investigational Applications IND Process for Drugs and Biologics <ul style="list-style-type: none"> • Types of INDs • Components of the IND: technical sections, financial disclosure, commitments undertaken, Forms FDA 1571 and 1572 • IND process: original submission, review, approval and 30-day notification period • Issues: clinical hold, how to manage inactive INDs, GCP compliance and enforcement • Maintenance of INDs: updates and annual reports IDE Process for Medical Devices Electronic Submissions | Form FDA 1571 Review |
| 12.00 – 13.00 | Lunch | |
| 13.00 – 14.45 | Lecture 4: Safety Reporting <ul style="list-style-type: none"> • FDA regulations and reporting procedures • Pre- and post- marketed products • Domestic and international activities • CIOMS and ICH | AE/SAE Workshop |
| 14.45– 15.00 | Refreshment Break | |

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| 15.00 – 16.30 | Lecture 5: Communicating with the FDA <ul style="list-style-type: none">• Role of regulatory project manager (RPM)• Initiating and maintaining contact (formal and informal). What is FDA's expectation• Types of meetings (A, B, C) with their respective timetables and package requirements, including "the program" for NMEs/NCEs.• Use of the Target Product Profile during development• Advisory committee meetings: structure, format, preparation, working examples of meetings and their outcomes | FDA Communication Activity: Meeting Request |
| 16.30 – 18.30 | Group Project: Case Study using TPP and US PI | |
| 19.30 | Close for evening | |

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Day 3: Wednesday 1st November

| Time | Activity | Workshop |
|----------------------|--|----------------------|
| 9:00 – 10:30 | Lecture 7: The NDA and BLA <ul style="list-style-type: none"> • Definition of drugs, biologics and devices • NDA/BLA – Content and Format • Pediatric Plans • FDA review process and Advisory Committee meetings • NDA maintenance – Changes, Post approval obligations and annual reports • Electronic submissions | FDA Form 356h Review |
| 10.30 – 10:45 | Break | |
| 10.45 – 12:00 | Lecture 8: Labelling and Advertising Controls <ul style="list-style-type: none"> • Definitions • Content and Format • Controls and meaning of the legislation • Direct to consumer advertising • OPDP Interactions and Submissions | DTC Ad Review |
| 12:00 – 13:00 | Lunch | |
| 13:00 – 14:00 | Lecture 9: Generics and OTC Products: <ul style="list-style-type: none"> • Drug Competition and Patent Term Restoration Act • Abbreviated New Drug Applications (ANDAs): Content, Data requirements and FDA Review • GDUFA • Legal basis for OTC • Registration of new OTC formulations • Switching from prescription to OTC | Labeling Comparison |
| 14.00 – 14.15 | Break | |
| 14.15 – 15.30 | Lecture 10: Advanced Therapies and Emerging Technologies <ul style="list-style-type: none"> • Cell and Gene Therapies • Biosimilars Combination Products | Discussion of Trends |
| 15.30 – 16:00 | Course Evaluation and Close | |