



Participate in 4 Workshops!

Laboratory Data Integrity

Ensuring the Integrity and Security of Laboratory Data, Records, Results and Information

15 – 16 June 2011, Vienna, Austria

SPEAKERS:

Dr Christopher Burgess
Burgess Analytical Consultancy Ltd., UK

Dr. Bob McDowall
McDowall Consulting, UK

PROGRAMME:

- Laboratory Data & Results
 - EU and US GMP Requirements
 - FDA Guidance Documents
 - Inspection Findings: 483 and Warning Letters
- Dealing with Mistakes before they become Falsification or Fraud
- Principles of Data Generation
 - Integrity Issues
 - Security Issues
- Requirements for Raw Data Integrity for
 - Paper Records
 - Hybrid Systems
 - Electronic Systems incl. ELNs
- Audit of Analytical Records
- Data Transformation: How to Identify and Handle Transcription Errors
- Collation and Reporting of Results
- Archiving



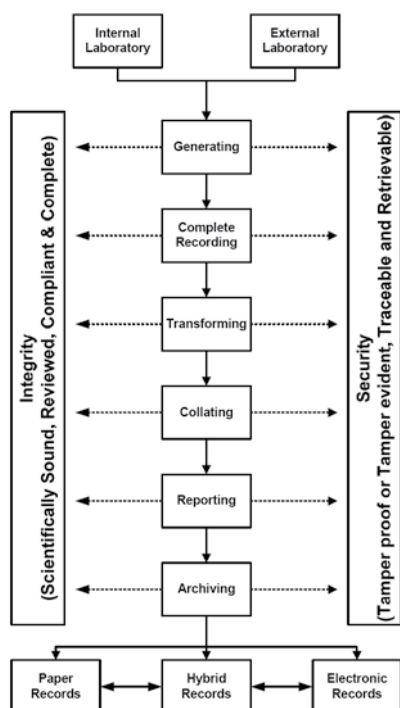
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Objectives

This course has the following objectives:

- To present the regulatory requirements and relevant critical regulatory observations concerning laboratory data integrity and security.
- To provide attendees with the tools and techniques to define “complete data” in the context of paper, hybrid and electronic records to ensure the integrity and security of laboratory records regardless of the mode of generation.
- To provide understanding of best practices in the life cycle of laboratory records shown in the diagram below:



Background

Demonstrating the integrity and security of laboratory data, records, results and information is paramount for a successful audit or inspection for any GMP regulated quality control laboratory.

US GMP regulations state that “Laboratory records shall include complete data derived from all tests necessary to assure compliance with established specifications and standards, including examinations and assays, as follows:”. In the FDA Guide to the Inspection of QC Laboratories is the statement “We expect raw data to be maintained in bound books or sheets for which there is accountability”. A number of high profile cases over the past few years have shown that data integrity is not maintained and can be fraudulent. The Able Laboratories fraud case in 2005 was one such instance where the data were fraudulently generated destroying any trust in the data integrity of laboratory data and the calculated results. However this is neither an isolated case nor the only area for concern as recent FDA warning letters indicated covering the integrity and security of laboratory data include the following citations throughout the whole pharmaceutical supply chain:

Loss of Data

The gas chromatographic analysis performed and the data provided to the application sponsor is not traceable to raw data. The original chromatograms could not be located during the inspection. (FDA Warning Letter, September 2010)

Data Falsification (impacting the integrity of the whole laboratory)

An analyst substituted IR spectra from a passing batch: This practice is unacceptable and raises serious concerns regarding the integrity and reliability of the laboratory analyses conducted by your firm. (FDA Warning Letter, January 2010).

Missing Documented Traceability of Results

Note that the copies of analytical notebooks submitted in your response remain incomplete in that they lacked: laboratory equipment/instrument information; standards and reagents information; filter information; dates and signatures of the persons who performed each test and reviewed the data; reference to the test method, version number, and effective date; and statement of how the test results compare with acceptance criteria. (FDA Warning Letter, August 2009).

Lack of Method Validation

Your firm has failed to establish and document the accuracy, sensitivity, specificity, and reproducibility of test methods [21 C.F.R. § 211.165(e)]. For example, your firm performed analytical method transfers for 236 protocols without determining whether those methods had been properly validated by your clients. (FDA Warning Letter, October 2010).

No or Inadequate Instrument Qualification

Several laboratory instruments used to analyze various drug components and drug products were either out of calibration, had not received proper maintenance according to your schedule, or a combination of both. (FDA Warning Letter, October 2010).

Inappropriate Use of Reference Standards

We observed 31 expired USP standards in a laboratory drawer next to a separate drawer containing unexpired standards. (FDA Warning Letter, October 2010).

The course will be based on the life cycle of a laboratory record and look at the integrity and security of it throughout its life time. We will discuss paper records as well as hybrid systems and electronic records.

Assumptions

It is assumed that sample management is in place, analytical procedures are valid, instruments have been qualified and software has been validated. These topics will not be covered in detail during this education course.

Target Group

The education course is aimed at the following attendees

- Laboratory personnel working in GMP laboratories in the pharmaceutical industry, contract research organisations, contract manufacturing organisations and API manufacturers
- Qualified Persons
- Quality Assurance personnel
- Supply chain auditors
- Regulatory Affairs CMC submissions professionals

Programme

Introduction to the Course

- Course roadmap
- Topics to be covered

EU and FDA GMP Regulations Impacting Laboratory Data and Results

- EU GMP requirements
- FDA GMP requirements
- FDA Guidance documents OOS, Inspection of QC labs
- Inspection findings 483 and warning letters
- Defining “complete data”

Fat Finger, Falsification or Fraud?

- Putting regulations and human nature into perspective
- To err is human – mistakes will be made but how to handle them?
- Dealing with mistakes before they become falsification or fraud
- Cultural and organisation issues with data integrity
- Criteria for laboratory data integrity

Principles for the Generation of Data

- Observational tests and instrument tests
- Training of staff
- Qualified analytical instruments and validated software
- Integrity issues
- Security issues

WORKSHOP I: Generation of Data

- What are the requirements for raw data integrity?
- Three scenarios covering paper records, a hybrid system and an electronic system

Recording of Data

- Handling entries in laboratory notebooks and paper printouts from instruments
- Hybrid systems with paper printouts and electronic records
- Electronic systems just containing electronic records
- Use of electronic laboratory notebooks (ELN) to substitute paper records

WORKSHOP II: Recording of Data

- Audit of an analytical record
- Three scenarios covering paper records, a hybrid system and an electronic system

Transforming Data

- Converting laboratory data to information
- Identifying and handling transcription errors on paper as well as electronic systems
- Calculations performed manually and by computer programs
- Issues with truncation and rounding of numbers
- Integrity and security issues of the records generated during transformation

WORKSHOP III: Data Transformation

- Excel
- Data from printout transcription, rounding, truncation

Collation and Reporting Results

- Calculating the reportable value and comparison with the specification
- Paper processes versus electronic processes
- Linkage with out of specification investigations (OOS)

WORKSHOP IV: Collation and Reporting Results

- Combining data
- Analytical procedure, SOP and worksheet of values

Archiving

- Security of paper and electronic records
- Backup of electronic records
- Retrieval of records

Speakers



Dr CHRISTOPHER BURGESS,
Burgess Analytical Consultancy Ltd.,
Barnard Castle, UK

Dr Burgess has over 35 years experience in the pharmaceutical industry primarily with Glaxo in Quality Assurance and Analytical R & D. He has MSc and PhD degrees from Loughborough University in Analytical Chemistry. He is a qualified ISO 17025 assessor. Dr. Burgess has published over 70 papers and books in analytical science. He is also a Qualified Person and a member of the European QP Association Advisory Board.



Dr. BOB MCDOWALL,
McDowall Consulting, Bromley, Kent, UK

Analytical chemist with over 35 years experience including 15 years working in the pharmaceutical industry and 18 years working for the industry as a consultant. He is Principal of McDowall Consulting, UK. Bob is an ISO 17025 assessor and he has been involved with the validation of computerised systems for over 20 years and is the author of a book on the validation of chromatography data systems. Bob is also the writer of the Questions of Quality (LC-GC Europe) and Focus on Quality (Spectroscopy) columns and is a member of the Editorial Advisory Boards of several Journals.


Social Event

At the end of the first course day you are cordially invited to a social event. This is an excellent opportunity to share your experiences with colleagues from other companies in a relaxed atmosphere.


Easy Registration

 **Reservation Form:**
CONCEPT HEIDELBERG
P.O. Box 10 17 64
69007 Heidelberg
Germany

 **Reservation Form:**
+ 49 6221 84 44 34

 **e-mail:**
info@concept-heidelberg.de

 **Internet:**
www.gmp-compliance.org

 + 49 6221 84 44 34

Reservation Form (Please complete in full)

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Mr. Ms.

Title, first name, surname

Company

Department

Important: Please indicate your company's VAT ID Number

P.O. Number, if applicable

Street/P.O. Box

City

Zip Code

Country

Phone/Fax

E-Mail (please fill in)

If the bill-to-address deviates from the specifications on the right, please fill out here:

CONCEPT HEIDELBERG

P.O. Box 101764

Fax +49 (0) 62 21/84 44 34

D-69007 Heidelberg

GERMANY

General terms and conditions

If you cannot attend the conference you have two options:

1. We are happy to welcome a substitute colleague at any time.
2. If you have to cancel entirely we must charge the following processing fees: Cancellation
 - until 2 weeks prior to the conference 10 %
 - until 1 weeks prior to the conference 50 %
 - within 1 week prior to the conference 100 %.

CONCEPT HEIDELBERG reserves the right to change the materials, instructors, or speakers without notice or to cancel an event. If the event must be cancelled, registrants will be notified as soon as possible and will receive a full refund of fees paid. CONCEPT HEIDELBERG will not be responsible for discount airfare penalties or other costs incurred due to a cancellation.

Terms of payment: Payable without deductions within 10 days after receipt of invoice.

Important: This is a binding registration and above fees are due in case of cancellation or non-appearance. If you cannot take part, you have to inform us in writing. The cancellation

fee will then be calculated according to the point of time at which we receive your message. In case you do not appear at the event without having informed us, you will have to pay the full registration fee, even if you have not made the payment yet. Only after we have received your payment, you are entitled to participate in the conference (receipt of payment will not be confirmed).

Date

Wednesday, 15 June 2011, 09.00 - 18.15 h
(Registration and coffee 08.30 - 09.00 h)
Thursday, 16 June 2011, 08.30 - 16.30 h

Venue

Renaissance Wien Hotel
Linke Wienzeile/Ullmannstr. 71
1150 Vienna, Austria
Phone + 43 (0) 189 102
Fax + 43 / (0) 189 102 300

Fees

ECA Members € 1,490.- per delegate plus VAT
APIC Members € 1,590.- per delegate plus VAT (does not include ECA membership)
Non-ECA Members € 1,690.- per delegate plus VAT
EU GMP Inspectorates € 845.- per delegate plus VAT
The conference fee is payable in advance after receipt of invoice and includes conference documentation, dinner on the first day, lunch on both days and all refreshments. VAT is reclaimable.

Accommodation

CONCEPT has reserved a limited number of rooms in the conference hotel. You will receive a room reservation form when you have registered for the event. Please use this form for your room reservation or be sure to mention "VA 6934 ECA Course" to receive the specially negotiated rate for the duration of your stay. Reservation should be made directly with the hotel not later than 5 May 2011. Early reservation is recommended.

Registration

Via the attached reservation form, by e-mail or by fax message. Or you register online at www.gmp-compliance.org.

Conference language

The official conference language will be English.

Organisation and Contact

CONCEPT HEIDELBERG
P.O. Box 10 17 64
D-69007 Heidelberg, Germany
Phone +49 (0) 62 21/84 44-0
Fax +49 (0) 62 21/84 44 34
E-mail: info@concept-heidelberg.de
www.concept-heidelberg.de

For questions regarding content:

Dr Günter Brendelberger (Operations Director) at phone +49-62 21 / 84 44 40, or per e-mail at brendelberger@concept-heidelberg.de.

For questions regarding reservation, hotel, organisation etc.:

Marion Grimm (Organisation Manager) at +49-62 21 / 84 44 18, or per e-mail at grimm@concept-heidelberg.de.