



Speakers



Bob McDowall
R.D.McDowall Ltd.



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GMP Inspector



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Data Integrity Master Class

With an optional full-day pre-course session on
Raw Data - Understanding, Defining and Managing



Live Online Training on 15 and 16-18 June 2021



Highlights

- What are Raw Data
- Interpretation of Raw Data
- True Copy vs. Raw Data
- Data Integrity in the Pharmaceutical Quality System / Data Governance
- Data Flow Analysis
- Metrics for Data Integrity
- Preparing your Company for a Data Integrity inspection
- Second Persons Review
- Control of Master Templates
- Vulnerability of Records
- Data Migration
- QA Oversight for Data Integrity
- Data Integrity Audit Results
- Data Integrity Investigations

Objective

The aim of this one day course is to understand what can be defined as raw data and to explore the meaning of the term for manufacturing, laboratory and quality records. Is there harmonisation of US and EU GMP regulations? For example:

- What is a “quality decision” and what is the impact of having to define raw data for the process or system?
- Can raw data be equivalent to complete information and complete data?
- Should we treat manufacturing “information” and laboratory “data” as the same?

Background

FDA GMP in 21 CFR 211 requires “complete information” for manufacturing records and “complete data” for laboratory records. In contrast, Chapter 4 of EU GMP on documentation contains in the Principle three sentences that are in apparent contradiction to the United States regulations:

- Records include the raw data which is used to generate other records
- For electronic records regulated users should define which data are to be used as raw data
- At least, all data on which quality decisions are based should be defined as raw data

In the days of harmonisation of regulations how can we reconcile these differences? This situation is compounded by the failure of EU GMP to define the term “raw data” in the regulations to help industry plan their approach to meeting these regulatory requirements.

Programme

Tuesday, 15 June 2021

Data, Information and Knowledge

An overview presentation covering for production, laboratories and QA. Link to regulations e.g,

- Data vs information vs knowledge
 - From knowledge to insight
- DIKI model
- Product, Process, Data

Regulations

- US GMP regulations: 211.68(b), 211.180(d), 211.188 and 211.194(a-e): complete data and complete information
- EU GMP Chapter 4 regulations – raw data principles outlined from a GMP perspective

Cutting Through the Confusion and Fog of Regulatory Terms

Currently there are many terms used in GMP regulations and data integrity guidance documents. What do they mean? How are they relevant to debate? Definition and interpretation of

- Original record / record
- Raw data – MHRA GMP and US GLP definitions
- Data and metadata
- True copy
- Complete data
- Initial data
- Translating raw data for a GMP environment: should we treat manufacturing and laboratory the same when it comes to raw data?

Interpretation of Raw Data for Production Systems

Using a manufacturing process that is automated by standalone PLCs, PLCs linked to a SCADA system and an automated Manufacturing Execution System, what constitutes raw data will be outlined.

- Raw Data for PLCs
- PLCs linked to a SCADA system
- SCADA linked to a Manufacturing Execution System

Interpretation of Raw Data for Laboratory Systems

Using a process involving a chromatography data system and a LIMS, what constitutes raw data will be outlined in two scenarios

- Hybrid CDS and manual input to the LIMS
- Electronic CDS with automatic transfer to the LIMS
- Managing sample management and preparation records



Case Study/Workshop: Defining Raw Data for Production, QA and Laboratory Systems

Can a True Copy be Raw Data?

This brief presentation will start from the definitions of raw data and true copy and explore if and how a true copy can be considered raw data.



Case Study/Workshop : What are Raw Data for Quality Decisions

Objectives

- You will get familiar with the current regulatory requirements on data integrity and how regulators refine these requirements
- You will get a deeper understanding what FDA and European inspectors expect from pharmaceutical companies in regard to Data Integrity
- You will learn how to implement the (new) regulatory requirements on Data Integrity into your Pharmaceutical Quality System
- You will learn how to prepare your company for a successful inspection in regard to Data Integrity
- You will understand how to establish an effective Data Governance system
- You will learn how to investigate Data Integrity issues in your company

Background

Even Data Integrity is one of the basic GMP principles since years multiple Data Integrity citations were reported by FDA and European inspectors during the last 3 years. Many US Warning Letters and EU Non-Compliance Reports deal with serious Data Integrity violations. Data Integrity questions have been and will continue to be the focus of many GMP inspections.

As a consequence international authorities – FDA, EMA, PIC/S, WHO, MHRA - published draft documents to describe the regulatory expectations of Data Integrity.

Although all guidelines are not intended to impose additional regulatory burden to the regulated companies, a lot of uncertainty predominates the pharmaceutical industry how to implement these requirements into the daily business.

Target Audience for both courses

The courses are directed at

- Managers and staff from Manufacturing, QC/QA and Analytical Development Laboratories of pharmaceutical companies
- Contract Research Organisation and Contract Manufacturing Organisation manufacturing, laboratory and QA personnel
- Auditors (internal and external) responsible for performing self-inspections or external audits and needing to understand and assess data integrity

Especially the Data Integrity Master Class course is directed to participants who have first experiences in Data Integrity, e.g. the ECA course “Data Integrity – Requirements for a GMP compliant Data Life Cycle”.

Programme

Wednesday, 16 June 2021

Regulatory Update

- EU GMP Requirements
 - Chapter 4, Annex 11
- Guidance Documents Overview (state of the art)
- “These Guides are not intended to impose additional regulatory burden upon regulated entities”. Is this correct?
 - Data Governance, Dynamic Data

Quality Culture for Data Integrity

- Regulatory expectations for a data integrity quality culture
- Role senior management in creating the culture
- Components of a quality culture
- Reinforcement of the culture

Data Flow Analysis

- Objective and purpose
- Electronic data flow
- Complete data flow
- Identification of possible weaknesses



Case Study/Workshop on Data Flow Analysis

Metrics for Data Integrity

- Metrics in the context of a corporate data integrity programme
- Suggested metrics in the assessment phase
- Suggested metrics in the operational phase

QA Oversight for Data Integrity

- Data integrity training
- Enforce data flows
- Reviews
- Internal inspection
- Audit of external organisations



Case Study/Workshop on QA Oversight for Data Integrity

Control of Master Templates and Blank Forms

- Why is control of master templates and blank forms important?
- Regulatory requirements from FDA, MHRA, WHO, EMA and PIC/S
- Devising and controlling the master template
- Operational use of the blank forms
- Do you really want to work this way?

Data Integrity in the Pharmaceutical Quality System / Data Governance

- Which PQS elements need to be added or updated?
- The Data Integrity Program
 - Priorities (immediate/short/mid-term)
 - Capacity, Timing
- Governance responsibilities
- Data governance vs. IT governance
- Elements of a data governance
- Embedding data governance into the PQS

Thursday, 17 June 2021

Audit Trail Review

- Regulatory Overview
- Essential Audit Trails in QA/QC/Manufacturing
- Risk-based approach
- What about legacy systems w/o Audit Trail?
- Who shall review Audit Trails? Documentation
- What process and documentation is appropriate in case of deviations/discrepancies?

Preparing your Company for an Data Integrity Inspection

- How to present the DI status and future approach?
- Gap analysis
- Training program coverage
- Experience from FDA inspections – Hot Buttons

DI Inspections

- Basis for Inspections: “PIC/S Good Practices for Data Management and Integrity in regulated GMP/GDP Environments”
- Data Integrity Assessment during Inspection
 - Quality Control, Manufacturing
- Inspection Findings



Case Study/Workshop: Data Inspection Findings

Second Person Review

- Regulatory and guidance document requirements for the second person review
- Role of the second person review
- Scope of the second person review
- Documenting the review for paper, hybrid and electronic systems
- Facilitated discussion on Second Person review

Facilitated Discussion on Second Person Review

Vulnerability of Records

- What is record vulnerability?
- Protection and security of electronic records requirements
- What can go wrong? Scope of misfortunes that can impact records
- Assessment of record vulnerability and implementation of control measures



Case Study/Workshop on Vulnerability of Records

Case Study Data Migration: Preserving Content and Meaning

- Principles of data migration
- Design of the migration process
- Risk-based elaboration of the verification strategy – case study examples

Friday, 18 June 2021

Cybersecurity / Cloud Computing / Time Synchronisation

- Cybersecurity securing data integrity
- Robust IT infrastructure
- Time synchronisation
- Qualification of time dissemination

Results of a Data integrity Audit from a Contract Laboratory

- Audit context, Audit scope, Findings, Root causes

Data Integrity Investigations

- What are data integrity investigations?
- Human and technical triggers for DI investigations
- Who should investigate the problem?
- Process description and how to document a DI investigation
- Should we inform regulatory authorities?



Case Study/Workshop on Data Integrity Investigations

Options for Long Term Data Retention

- Proprietary v open standards for laboratory data
- Options for long term retention:
 - Keep original system, Virtualisation, Data migration



Case Study/Workshop: Justifying Long Term Solutions

Key Learning Points and Final Discussion

Ordering a Recording

Independent from the Live Online Training, you can also order a recording of this training at the same conditions. This recording will be provided on our media server. All you need to watch it is an Internet browser – no additional software. You can order the recording of the Live Online Training at the earliest 10 days after the live performance at <https://www.gmp-compliance.org/on-demand-online-training/recorded-online-training-webinars>.

Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event.

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Your Benefits

Internationally Acknowledged Certificate from ECA Academy

The EU GMP Guide requires: „... All personnel should be aware of the principles of Good Manufacturing Practice that affect them and receive initial and continuing training,...“. This is why you receive an acknowledged participant certificate, which lists the contents of the seminar in detail and with which you document your training.

This Training Course is recognized for the GMP/GDP Certification Scheme

Building on your education the ECA GMP/GDP certification programmes provide you with the appropriate supplement to acquire this qualification. This training course is the first element for your additional certification. Simply choose any three courses within the programme according to your professional interest. Your certificate is then valid for two years. To renew it, you can pick any training from the ECA courses and conferences list within that two-years period – allowing you to broaden your knowledge in GMP and GDP compliance. Please find more information at www.gmp-certification.org

This could be of interest for you as well

Why not online? GMP/GDP seminars, webinars and e-learning

Take advantage of the wide range of „on demand“ training opportunities offered by the ECA Academy. You can use various online offers at any time without software installation. There is an extensive selection of courses available. Simply book online - with a certificate of completion, of course. Find out more at <https://www.gmp-elearning.com> and <https://www.gmp-compliance.org/on-demand-online-training/recorded-online-training-webinars>

Speakers



Dr Bob McDowall
R.D.McDowall Limited, Bromley, Kent, UK

Analytical chemist with over 45 years experience including 15 years working in the pharmaceutical industry and afterwards working for the industry as a consultant. Bob is an ISO 17025 assessor and he has been involved with the validation of computerised systems for over 30 years and is the author of a book on the validation of chromatography data systems. He was also a contributor to the GAMP IT Infrastructure control & compliance and Lab System Validation 2nd edition Good Practice Guides. He is a core member of the GAMP Data Integrity SIG. He recently published his book on Data Integrity and Data Governance: Practical Implementation in Regulated Laboratories.



Yves Samson, Kereon AG
Basel, Switzerland

Automation and system engineer with over 25 years experience, including 11 years as regulated user, Yves is the founder of Kereon AG, Basel. He supports his customers as consultant, trainer, and e-compliance auditor. He is member of GAMP Europe Steering Committees, chairman and co-founder of GAMP Francophone. He edited the French version of GAMP 4 and GAMP 5. In 2017, Yves launched the e-Compliance Requirements Initiative (eCRI) with the aim to help the regulated pharmaceutical industry and its suppliers to address and to implement accurately, consistently, and effectively the regulatory e-Compliance requirements.



Dr Franz Schönfeld
District Government of Upper Franconia,
Germany

Dr Franz Schönfeld is a GMP and GDP inspector at the local inspectorate for medicinal products and active substances of the District Government of Upper Franconia. He is head of the expert working group for APIs at the Central Authority of the Federal States for Health Protection.



Dr Wolfgang Schumacher
formerly F. Hoffmann-La Roche Ltd.,
Switzerland

Dr Schumacher studied chemistry and pharmacy. After entering Asta Medica, he headed different positions. In 2001 he joined F. Hoffmann-La Roche, Basle, where he was Head of the Quality Computer Systems department. He is a member of the ECA Advisory Board.

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Reservation Form (Please complete in full)



Live Online Courses

- Raw Data – Understanding, Defining and Managing, 15 June 2021
- Data Integrity Master Class, 16-18 June 2021

Title, first name, surname

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Company

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German law shall apply. Court of jurisdiction is Heidelberg.

Privacy Policy: By registering for this event, I accept the processing of my Personal Data. Concept Heidelberg will use my data for the processing of this order, for which I hereby declare to agree that my personal data is stored and processed. Concept Heidelberg will only send me information in relation with this order or similar ones. My personal data will not be disclosed to third parties (see also the privacy policy at http://www.gmp-compliance.org/eca_privacy.html). I note that I can ask for the modification, correction or deletion of my data at any time via the contact form on this website.



Dates of the Live Online Training

Raw Data

Tuesday, 15 June 2021, 09.00 h – 17.15 h CEST

Data Integrity Master Class

Wednesday, 16 June 2021, 09.00 h – 18.00 h CEST

Thursday, 17 June 2021, 09.00 h – 18.00 h CEST

Friday, 18 June 2021, 09.00 h – 15.45 h CEST

Technical Requirements

For our Live Online Trainings, we use Cisco WebEx, one of the leading suppliers of online meetings. At <http://www.webex.com/test-meeting.html> you can check if your system meets the necessary requirements for the participation at a WebEx meeting and at the same time install the necessary plug-in. Please just enter your name and email address for the test. If the installation is not possible because of your rights for the computer system, please contact your IT department. WebEx is a standard nowadays and the necessary installation is fast and easy.

Fees (per delegate plus VAT)

Raw Data

ECA Members € 790

APIC Members € 840

Non-ECA Members € 890

EU GMP Inspectorates € 445

The conference fee is payable in advance after receipt of invoice.

Data Integrity Master Class

ECA Members € 1,790

APIC Members € 1,890

Non-ECA Members € 1,990

EU GMP Inspectorates € 995

The conference fee is payable in advance after receipt of invoice.



Save money and book both online courses:

ECA Members € 2,390

APIC Members € 2,490

Non-ECA Members € 2,590

The conference fee is payable in advance after receipt of invoice.

Registration

Via the attached reservation form, by e-mail or by fax message.

Or you register online at www.gmp-compliance.org.

Presentations/Certificate

The presentations will be made available to you prior to the Live Online Training as PDF files. After the event, you will automatically receive your certificate of participation.

Conference language

The official conference language will be English.