

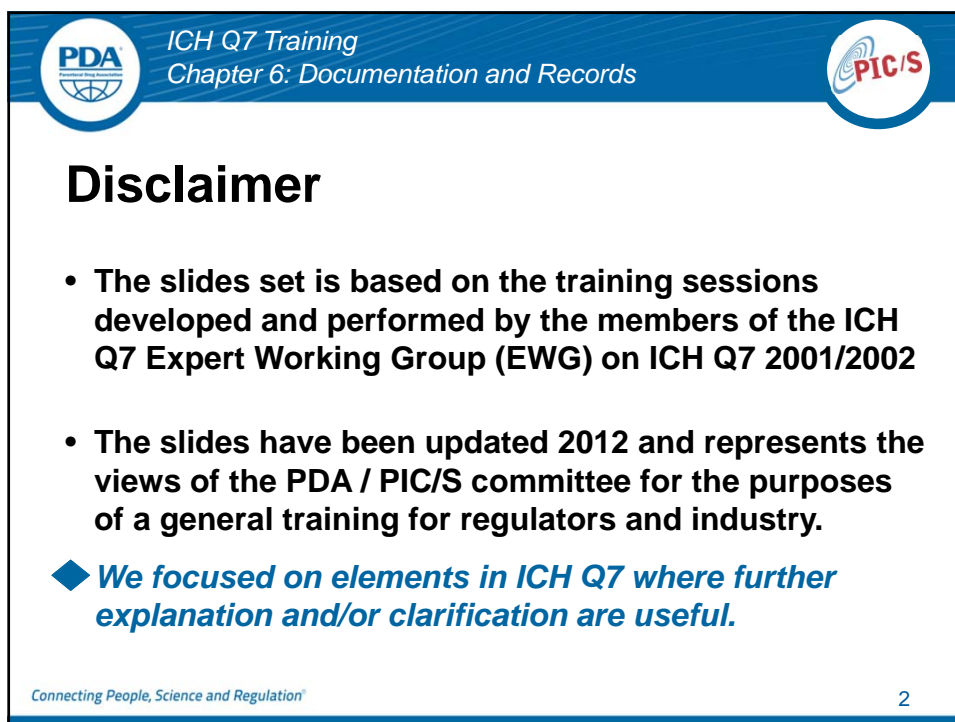
The slide features a blue background with white diagonal lines. In the top left is the PDA logo with the tagline "Connecting People, Science and Regulation". In the top right is the PIC/S logo. The main title "ICH Q7 Chapter 6: Documentation and Records" is centered in white. Below the title are three circular images: a laboratory machine, a person in a lab coat and mask, and a close-up of a syringe. At the bottom left, it says "PDA - PIC/S ICH Q7 Training 01/2014".

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PIC/S

ICH Q7 Chapter 6: Documentation and Records

PDA - PIC/S
ICH Q7 Training 01/2014



The slide has a blue header with the PDA logo on the left and the PIC/S logo on the right. The header text reads "ICH Q7 Training Chapter 6: Documentation and Records". The main content is a disclaimer in black and blue text. At the bottom left is the PDA tagline "Connecting People, Science and Regulation" and the number "2" is at the bottom right.

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ICH Q7 Training
Chapter 6: Documentation and Records

PIC/S



Disclaimer

- The slides set is based on the training sessions developed and performed by the members of the ICH Q7 Expert Working Group (EWG) on ICH Q7 2001/2002
- The slides have been updated 2012 and represents the views of the PDA / PIC/S committee for the purposes of a general training for regulators and industry.

◆ *We focused on elements in ICH Q7 where further explanation and/or clarification are useful.*

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2

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Chapter 6: Documentation and Records 

Content

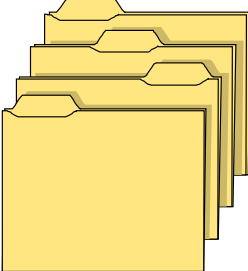
- **Documentation System and Specifications (6.1)**
- **Equipment Cleaning and Use Record (6.2)**
- **Records of Raw Materials, Intermediates, API Labeling and Packaging Materials (6.3)**
- **Master Production Instructions (6.4)**
- **Batch Production Records (6.5)**
- **Laboratory Control Records (6.6)**
- **Batch Record Review (6.7)**

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Chapter 6: Documentation and Records 

6.1 Doc System & Specifications

- **Should have procedures to describe**
 - Issuance, review, approval and distribution of documents (6.10 / 6.11)
 - Revision history (6.12)
 - Record retention
 - Documents can be in paper or electronic form



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6.1 Doc System & Specifications

- **Record retention (6.13, 6.15)**
 - **What?**
 - Production records, Control records, Distribution records
 - **How long?**
 - At least 1 year after expiry date
 - At least 3 years after complete distribution of the batch for APIs with retest date
- ◆ *Legal provisions and/or customer requirements may require a longer retention period to ensure availability of API records along the life of the drug product*



6.1 Doc System & Specifications

- **Record retention (6.13-6.16)**
 - Records may be retained as originals or true copies (accurate reproductions)
 - Originals or copies should be available at the establishment where the activity occurred
 - Prompt retrieval from another location by electronic or other means is acceptable
 - If reduction techniques (microfilm) or electronic records are used, suitable retrieval equipment and means to produce hard copy should be readily available
- ◆ *Maintain the capability to read the records (e.g. IT)*





6.1 Doc System & Specifications

- **Entries in records should (6.14)**
 - Be indelible
(incapable of being removed, erased or washed away)
 - Made in spaces provided
 - Made directly after performing the activity (2.15)
 - ◆ *Back dated data question the reliability of all data*
 - Identify the person making the entry
 - ◆ *It is a good practice a second person checking the raw data and the completed record*



6.1 Doc System & Specifications


- **Corrections (6.14)**
 - Leave the original entry readable
 - Dated
 - Signed
 - ◆ *Anything more than obvious corrections there should be an explanation of the why.*

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Chapter 6: Documentation and Records 

6.1 Doc System & Specifications

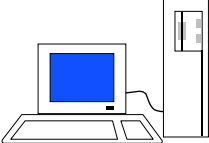
- **Signature can be (6.14)**
 - Full handwritten signature
 - Authenticated and secure electronic signature
 - Initials
- ◆ *Initials are preferably unique to individuals*
- ◆ *A correlation list is needed to retrieve the full name*

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Chapter 6: Documentation and Records 

6.1 Doc System & Specifications

- **Electronic signatures (if used) should be (6.18)**
 - Authenticated
 - Secure
- ◆ *An electronic signature should be equivalent security to a pen signature (e.g. unique to the individual)*





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Chapter 6: Documentation and Records 

6.2 Equip Cleaning & Use Record

- **Records of major equipment (6.20)**
 - Use
 - Cleaning
 - Sanitization and / or sterilization (if performed)
 - Maintenance
- ◆ *Unique records per major equipment has shown to be helpful*
- ◆ *Traceability should also be available to auxiliary equipment*

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Chapter 6: Documentation and Records 

6.2 Equip Cleaning & Use Record

- **These records should include (6.20)**
 - Date
 - Time (if appropriate)
 - Product
 - ◆ *including the manufacturing step*
 - Batch number
 - Person performing cleaning and maintenance
- ◆ *Note: Making sure that the premises and equipment are maintained and records kept (2.3-7)*

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6.2 Equip Cleaning & Use Record

- **Dedicated equipment (6.21)**
 - Individual equipment records not necessary if batches follow in traceable sequence
 - Records of cleaning, maintenance and use can be part of batch record or maintained separately

◆ *Attention should be given to auxiliary equipment*



6.3 Records of Materials

- **For raw materials, intermediates, API packaging and labelling (6.30)**
 - Name of manufacturer
 - Identity and quantity of each shipment of each batch
 - Name of supplier
 - Supplier's control number or identity number
 - Number allocated on receipt
 - Date of receipt



6.3 Records of Materials

- **For raw materials, intermediates, API packaging and labelling (6.30) (cont.)**
 - Results of any test or examination and conclusion
 - Records tracing use
 - ◆ *Attention should be given on dispensing activities and with tailings*
 - Final decision regarding rejected materials
 - Master (approved) labels should be maintained for comparison to issued labels (6.31)



Clarification of terms

- **Master Production Instruction**
 - Master recipe or SOP
- **Batch Production Record**
 - Record of actual batch produced
 - ◆ *No single preferred or correct system*
 - *Some companies include the blanks to be completed in the Master Instruction so that instructions and results are one document*
 - *Some companies have instruction as one document and then a separate very short document for recording results*
 - ◆ *Pay attention in case of updates of individual documents and other affected documents including registration filing*





6.4 Master Production Instructions

- **A Master Production Instruction should include (6.41)**
 - Name of intermediate or API being manufactured
 - Identifying document reference code
 - Complete list of raw materials and intermediates
 - Accurate statement of the quantity or ratio of each material to be used (including unit of measure)
 - Major production equipment to be used
 - Special notations or precautions ◆ *(e.g. safety instructions)*
 - Instructions for storage of intermediate or API where appropriate



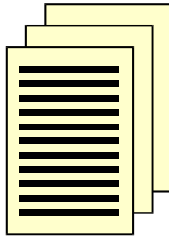
6.4 Master Production Instructions

- **A Master Production Instruction should include**
 - Detailed production instructions
 - Sequences to be followed
 - Ranges of process parameters
 - Sampling instructions
 - In-process controls with acceptance criteria
 - Time limits
 - Expected Yield
 - ◆ *The quantity of material or the percentage of theoretical yield anticipated at any appropriate phase of production based on previous laboratory, pilot scale, or manufacturing*
 - ◆ *Separate Master Production Instructions (Master Batch Record) are needed for rework / reprocessing*




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6.5 Batch Production Records

- **Should be prepared for each intermediate and API (6.50)**
- **Should include complete information relating to production and control of the batch (6.50)**



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6.5 Batch Production Records

- **Prior to issuing for use (6.51)**
 - Checked that it is the correct version and a legible accurate reproduction of the master
 - Numbered with a unique batch or identification number, dated and signed

◆ *In case of an update of the Master Production Instructions ensure the unused copies of the older version are destroyed*

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6.5 Batch Production Records

- **Documentation of completion of each significant step should include (6.52)**

- Dates
- Times, when appropriate
- Identity of major equipment
- Specific information for each material used
 - Weights or amount
 - Batch or identification number

◆ *In continuous production, the product code, date and time can serve as the unique identifier until final number is allocated*



6.5 Batch Production Records

- **Documentation of completion of each significant step should include (6.52)**

- Actual results for critical process parameters
 - ◆ *Highlight critical parameters in the batch record in an appropriate manner*
- Sampling
- Signatures of persons
 - Performing each critical step in the operation
 - Directly supervising or checking critical step
- In-process or lab test results
- Actual yield





6.5 Batch Production Records

- **Documentation of completion of each significant step should include (6.52)**
 - Description of packaging and label
 - Representative label
 - Results of release testing
 - Any deviation noted
 - Investigation (if appropriate)
 - ◆ *Critical deviations should be investigated*
 - ◆ *Initiate investigations in a timely manner*
 - ◆ *Investigation should extend to other batches that may be associated*



6.6 Laboratory Control Records



- **Complete data from all tests conducted (6.60)**
- **Description of sample (6.60)**
 - Material name or source
 - Batch number or other distinctive code
 - Date taken
 - Quantity and date received for testing (where appropriate)
- **Reference to test method used (6.60)**
- **Weight or measure of sample used (6.60)**


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6.6 Laboratory Control Records

- **Data on preparation and testing of (6.60)**
 - Reference standards, Reagents, Standard solutions
- **Complete record of raw data generated in addition to graphs, charts, and spectra (6.60)**
 - ◆ *Manage the transcription of data into an electronic system (e.g. LIMS) by appropriate controls*
 - ◆ *Traceability to the reference standard / spectrum used*
 - ◆ *There must be a clear and permanently recorded audit trail of any amendments to raw electronic data*
- **Record of calculations including (6.60)**
 - Units of measure, Conversion factors, Equivalency factors

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25


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6.6 Laboratory Control Records

- **Statement of test results and comparison with acceptance criteria (6.60)**
- **Signature of person who performed each test (6.60)**
- **Date the test was performed (6.60)**
- **Date and signature of person reviewing for (6.60)**
 - Accuracy
 - Completeness
 - Compliance with established standards

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26



6.6 Laboratory Control Records

- **Any modification to an analytical method (6.61)**
 - ◆ *Handle under change control*
- **Calibration of lab instruments (6.61)**
 - ◆ *Consider difference on 'calibration' versus 'verification' in a daily operations*
 - ◆ *Contractors should follow the companies procedures*
- **Stability testing on APIs (6.61)**
- **Out of specification (OoS) investigations (6.61)**



6.7 Batch Records Review

- **Review of batch production record and lab control records before batch is released or distributed (6.70)**
 - According to written procedure
 - Any deviations, investigations or OoS should be included in this review
 - ◆ *... and conclude before release*
- **Review by quality unit for critical process steps (6.71)**
- **Non-critical process steps may be (6.71)**
 - Reviewed by qualified production personnel
 - Following procedures approved by quality unit
 - ◆ *Independency of the review must be given*



6.7 Batch Records Review

- **Quality unit is responsible for releasing or rejecting all APIs** (*Section 2.22-1*)
- **Quality unit can delegate to production the authority for release of intermediates** (6.73)
 - Except intermediates that are sold ("*shipped outside the control of the manufacturing company*")



Key Messages

- **Documents need to be managed: issued, distributed, when and where used, reviewed, archived etc.**
- **Documentation system needs to be described and maintained appropriately**
 - Equipment, Cleaning & Use Record
 - Records of Materials
 - Master production instructions, batch record and batch record review
 - Laboratory Control Records



Acknowledgement

- **This version represents an update of the 2001/2002 version by ICH Q7 EWG members organised in a joint initiative between PDA and PIC/S developed in 2012**
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