

FDA and EMA papers

FDA

- Guidance for Industry Electronic Source Data in Clinical Investigations, 2013
- (Guidance for Industry Computerized Systems Used in Clinical Investigations, 2007)

EMA

 Reflection paper on expectations for electronic source data and data transcribed to electronic data collection tools in clinical trials

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FDA and EMA papers

- There has been an awareness/information/ comment opportunity between EMA and FDA regarding the development of the respective documents
- Overall, the documents are covering a lot of the same issues and are not contradicting each other
- There are some differences, particularly in focus area and detail level

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Comparison

| FDA |
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| FDA generally has the investigator as the responsible party and consequently deviations/findings are the responsibility of the investigator |
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Comparison

| FDA |
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| The FDA promotes capturing source data in electronic form |
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Examples of loss of quality when an electronic system is used in place of a paper system

- Traceability of changes to CRF pages (per field/per page)
- Independent copy of the CRF at the investigator site
- · Full access to medical records sometimes prevented

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Comparison

The reflection paper is centred on the 12 user requirements set by CDISC, which the inspectors have categorised into the following topics: -Creation and modification of systems -Creation, modification and transfer of data -Control -Copying -Storage -Storage -FDA The guidance has the following sections: -Data Capture -Data review -Retention of Records by Clinical Investigators -Data Access -And the guidance is intended to be used together with the FDA guidance on Computerized Systems Used in Clinical Investigations

Comparison

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Source data should be attributable, legible, contemporaneous, orginal, accurate, complete, consistent, enduring and available when needed (ALCOA+) and must meet the regulatory requirements for recordkeeping specified in 28 different local laws.

Sponsors and investigators should pay special attention to local legislation with regards to the source data going directly into the eCRF.

The EHRs are first and foremost a communication tool for HCPs to ensure communication around the patient.

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Comparison EMA Q&A: The intended (of source data) location should be clearly defined prior to subject recruitment. One way of Other guidance: the information provided to the FDA should fully describe and explain how source data achieving this is to generate a source data location list. This list should be prepared by the site and should be were obtained and managed, and how electronic records were used to capture data prepared by the site and should be signed and dated by the principal investigator or by a person whom the principal investigator has assigned this task. The list should be filed in the investigator's trial master file. Sündhedsstyrelsen 18.09.2015 Example of deviation/finding There was no source data agreement at the site and as a consequence the monitor had done source data verification on transferred data on paper and not on the true electronic source data. ICH GCP 2.13. (including Q&A from the GCP IWG) and 5.18.4 (k) and (m) (major) Sündhedsstyrelsen

The protocol should identify any data to be recorded directly into the CRFs that is considered to be source data. A detailed diagram and description of the transmission of electronic data should be provided in the protocol. The source data and their respective capture methods should be clearly defined prior to trial recruitment (i.e. in the protocol or study specific source data agreement). The sponsor should describe which data will be transferred data, the timing of the transferred and any actions that may be triggered by real-time review of those data.

| Comparison | | | | |
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| ЕМА | FDA | | | |
| Comment: The time for the review is probably too late as this is after the end of the trial. The review and sign off of the data by the investigator should: • allow for corrective and preventive actions for instance in case of inaccurate/incomplete data or data indicating non-eligibility of the trial subject or fulfilling the withdrawal criteria of the protocol and ensure that only accurate data are used for the statistical analyses by the sponsor. | To comply with the requirement to maintain accurate case histories clinical investigator(s) should review and electronically sign the completed eCRF for each subject before the data are archived or submitted to FDA. | | | |
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The EMA reflection paper has an added section regarding Electronic Health records. Clinical trials can be conducted at institutions that use electronic health record systems. In that case the support of EHRs with part 11 According to the FDA webinage and this document, the monitor will have to rely on the data presented whe or she does not have direct account to the EHR with part 11 the systems do not meet the GCP requirements then mitigating actions shows the taken as necessary prior to that is the initiation. Examples where the requirements may not be met are discussed in the paper

| Comparison | |
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| ЕМА | FDA |
| Considering the electronic source data environment it is accepted that the earliest practically retainable record should be considered as the location of the source data and therefore the source document. | When a device or instrument is the data originator (e.g., blood pressure monitoring device or glucometer) and data are automatically transmitted directly to the eCRF, the eCRF is the source |
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Detailed section regarding investigator's control over data i.e. independent copy of the eCRF, specific requirements for contracts and examples of systems which would not fulfill requirements (i.e. web based eCRFs where the sponsor or somebody dependent on the sponsor is hosting the server) The clinical investigator(s) should retain control of the records (i.e., completed and signed eCRF or certified copy of the eCRF) of the regularizer when source data are transmitted from one system to another-i.a. copy of the data should be maintained at another location, typically at the clinical site but possibly at some other designated site. Copies should be made contemporaneously...

Example of deviation/finding

 The eCRF is webbased and the database is hosted by the sponsor. The investigator does not have a contemporaneous, independent copy of his data. ICH GCP 2.13, 8.3.14 and the EMA reflection paper (major)

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Comparison Comment: Direct transmission of data elements from EHR to the eCRF can only one place, if the respective EHR aftern is adequately validated for the purpose. Lately, a number of provising initiatives and projects have been launched in both European vigober States and the U.S., but the mornity of EHR systems are currently oaking the required preconditions in respect to validation and reliable protection of data privacy. Only the provision of the provision in the FDA guidance which is not detailed in the EMA reflection paper: Definition of data element, data element, data element identifier, data element originator etc. with examples and lauthorized data originators should be developed and maintained by the sponsor and made available at each clinical site. **a specific section on direct transmission of Data From the Electronic Health Record to the eCRF Other guidance: a list of recommended SOPs for electronic systems

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| EMA | FDA | <u> </u> |
| Examples of information in the EMA reflection paper which is not detailed the FDA guidance: -Clarification that the investigator should have access (in an independe copy) at all times to all data generat in a trial relevant to patient care. | nt | |
| (questionnaires, diaries) -Self-evident corrections performed the sponsor -Quality control: Any transfer from paper to electronic CRF should be subject to quality control and the lev of control should be justified | | |
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Example of deviation/finding

• A major deviation was given across all three investigator sites caused by the systematic approach by the sponsor to ask investigators to sign an 'Acknowledgement of Self-Evident changes'-document stating that 'By signing this form, the Principal Investigator acknowledges that Data Management personnel may make self-evident changes to the clinical database. These changes may include, but are not limited to the following (followed by two examples). This wording is considered much too broad. It gives the sponsor the possibility to change (virtually undefined) investigator data without a query process. Seen in connection with the not self-evident audit trail provided by the sponsor to the investigators (which also caused the inspectors and sponsor staff numerous issues during the inspections) this is considered a major deviation.

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Comparison conclusion

- Overall, the documents are covering most of the same issues and are not contradicting each other
- There are some differences, particularly in focus area and detail level (and maybe authority acceptance level?)
- The most important issue squastions regarding the compliance is a potential mitigating actions.

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