

Draft advice to the European Medicines Agency from the clinical trial advisory group on Clinical trial data formats

Updated following the 11th April 2013 TC.

All statements in this advice are made under the assumption that CTAG1 rules for patient data confidentiality and anonymisation are applied and effective, and that CTAG5 legal rules and CTAG3 rules of engagement are strictly followed. As a consequence, there will be no more reference to the CTAG1, CTAG3 and CTAG5 rules in the rest of this advice.

1. The following definitions were agreed

1.1 This advice refers to all data recorded in a clinical trial (as part of documents and aggregated or patient level data) that can be stored electronically and associated documentation (additional information that identifies and characterises the data properties such as dataset keys, variable definition, terminology, code lists) that is submitted by Applicants to the European Medicines Agency (EMA) throughout the life-cycle of medicinal products. ,

It is recommended that the policy will be applied

- prospectively for future submissions to the Agency, which may include existing clinical trial data.
- to clinical trial data already available at the Agency (Level 1 and Level 2 data as defined in Section 3). The Agency will provide a time schedule for publication of these clinical trial data from submissions received before the policy comes into effect.

1.2 Data formats, in this advice, refer to the organisation of information according to pre-set specifications that facilitate the storage, exchange, access, comprehension, analysis and archive of clinical data. It includes both the type of electronic files and the structure of the files, as well as associated documentation.

The data and associated documentation concerned by this policy may or may not be sourced via electronic tools (e.g., paper or electronic case report forms), and are subsequently submitted and stored electronically.

2. There is a need to define data formats

The choice of formats should neither imply delays in the information to be made available nor impose un-necessary burden to the stakeholders.

Formats may be different depending on the type of information to be made publicly available and the intended use of it, and data should be made available irrespectively.

As there are not universally agreed formats, a minimum set of rules should be defined, including:

- 36 • An indexed list of all clinical trials present in the submissions shall be provided (even if already
37 available in the table of content of the submission dossier, as it may not be enough) so the
38 data of the overall clinical program is tracked.
- 39 • In this list, clinical trials should ideally be identified by a unique trial identifier. This identifier
40 could be either one of the following identifiers or a combination of these identifiers: the
41 EudraCT number (but it would only cover trials conducted in Europe and it is not commonly
42 referenced in journals and published articles), the US NIH clinicaltrials.gov registry number
43 (commonly referred to in the literature), the ISRCTN registry number or a number provided by
44 the applicant at the time of submission. Should there be no identifier a new one should be
45 created. It is thought to be useful to be able to link back clinical trials to journal article
46 information.
- 47 • Data shall be published in the format they have been submitted and evaluated and no
48 conversion of formats will be done by either the marketing authorisation holder or the EMA.
- 49 • Consistency of formats throughout the life cycle of the medicinal products is not mandatory but
50 should be sought when achievable, e.g. for contemporaneous studies.
- 51 • Text documents containing data should be human readable and searchable by anyone
52 requesting the data from the EMA.
- 53 • There was a request that analysis of patient-level data could be done in Excel.
- 54 • Patient-level data should be accompanied by associated documentation that allows a rapid and
55 clear understanding of the data and how to process it. This documentation, which includes
56 metadata (= 'structured data about data'), should ideally be machine readable. For example,
57 the documentation explains the structure of the data (e.g., what information is contained in
58 each dataset), gives the definition of data elements (e.g., '1' corresponds to 'male' and '2' to
59 'female'), and provides the context to interpret correctly the data, to allow further analyses,
60 without needing additional information from either the marketing authorisation holder or the
61 EMA.
- 62 • Formats should be chosen so that data is readable with open source, non-proprietary software
63 (but not necessarily free): that includes, but is not limited to, portable document format (PDF)
64 for text documents such as clinical study reports, SAS transport file format (XPT) for datasets
65 and programs (as opposed to SAS format which is proprietary), and extensible markup
66 language (XML) format for associated documentation on data. It would be easier for Industry
67 in general if these requirements are the same as FDA's, although it is not favoured by small-
68 and medium-sized enterprise if at a non-negligible cost.
- 69 ○ Inclusion of SAS programs is discouraged by members of Industry as they could
70 represent substantial intellectual property of the marketing authorisation holder (MAH).
- 71 ○ Of note, SAS versions more recent than Version 5 can only be opened by a SAS
72 software.

73 **3. What types of data are to be included and in what format**

74 Assuming that data privacy protection has been ensured for all data made available publicly,
75 information such as CT scans, MRI and other imaging, interviews, genetic/genomic data can bring
76 useful information and should be in the scope of discussion for data formats. However, that particular

77 type of data is contained in large files; thus its transport, storage and access require extensive storage
78 capacity.

79 Members of Industry are of the opinion that the publication of these types of data may cause data
80 privacy protection issues.

81 Three levels of clinical trial information, data and associated documentation shall be included.

82 • Level 1: for each product, a full list of clinical trials, including a unique study identifier; these
83 lists should be fully searchable and could be connected to the European Public Assessment
84 Reports. This is separate to information stored in the EUdraCT database.

85 • Level 2: for each study, full clinical study report (CSR) according to ICH E3, including all
86 appendices, as detailed in ICH E3 (study information, patient data listings and case report
87 forms [CRF]).

88 • Level 3: for each study, individual patient data sets (including individual patient data) and
89 additional results used for the evaluation of the drug (if not covered by Level 2),
90 documentation explaining the structure and content of datasets (e.g., annotated CRF, variable
91 definitions, data derivation specifications, dataset define file), test outputs, SAS logs and SAS
92 programs.

93 ○ According to Members of Industry, the following items should be removed from Level
94 3: variable definitions, data derivation specifications, test outputs, SAS logs and SAS
95 programs.

96 Elements included in the three levels of data listed above may need to be modified in special
97 circumstances driven by confidentiality or legal aspects.

98 The following table (Table 1) lists data elements, level of information, format in current submissions
99 and whether they are routinely requested by the EMA.

100 Table 1. Types of data

Type of data	Level	Requested by EMA	Format
ICH E3 1-15 Core report	2	Yes	PDF
ICH E3 16.1 Study information	2	Yes	PDF
ICH E3 16.1.1 Protocol and protocol amendments	2	Yes	PDF
ICH E3 16.1.2 Sample case report form (unique pages only)	2	Yes	PDF
ICH E3 16.1.3 List of IECs or IRBs (plus the name of the committee Chair if required by the regulatory authority) - Representative written information for patient and sample consent forms	2	Yes	PDF
ICH E3 16.1.4 List and description of investigators and other important participants in the study, including brief (1 page) CVs or equivalent summaries of training and experience relevant to the performance of the clinical study	2	Yes	PDF
ICH E3 16.1.5 Signatures of principal or coordinating	2	Yes	PDF

Type of data	Level	Requested by EMA	Format
investigator(s) or sponsor's responsible medical officer, depending on the regulatory authority's requirement			
ICH E3 16.1.6 Listing of patients receiving test drug(s)/investigational product(s) from specific batches, where more than one batch was used	2	Yes	PDF
ICH E3 16.1.7 Randomisation scheme and codes (patient identification and treatment assigned)	2	Yes	PDF
ICH E3 16.1.8 Audit certificates (if available)	2	Yes	PDF
ICH E3 16.1.9 Documentation of statistical methods	2	Yes	PDF
ICH E3 16.1.10 Documentation of inter-laboratory standardisation methods and quality assurance procedures if used	2	Yes	PDF
ICH E3 16.1.11 Publications based on the study	2	Yes	PDF
ICH E3 16.1.12 Important publications referenced in the report	2	Yes	PDF
ICH E3 16.2 Patient data listings	2	Yes	PDF
ICH E3 16.3 Case Report Forms	2	No	N/A
Investigator's brochure	2	No	N/A
Annotated Case Report Forms	2	No	N/A
Patient-level dataset (raw and derived)	3	No	N/A
Analysis datasets	3	No	N/A
Dataset specifications (metadata which describes the variable labels, variable descriptions, code lists and formats)	3	No	N/A
SAS programs	3	No	N/A
SAS logs	3	No	N/A
Test outputs	2	No	N/A
Completed CRFs for all trial participants	3	No	N/A
Laboratory reports for all trial participants	3	No	N/A
medical records and diagnostic reports for all trial participants obtained as part of trial procedures	3	No	N/A
Email correspondence	3	No	N/A
Meeting minutes	3	No	N/A
Records of Data Monitoring Committees	3	No	N/A

101

102 **4. Formats recommended**

103 In general, to avoid delays any format shall be acceptable for all data until the policy is applied by
104 stakeholders. The data shall be published in the format they are available at present.

105 In terms of the different types of data described in the previous section, Level 1 data should be
106 searchable. PDF is recommended.

107 For Level 2 data (CSR and appendices, according to ICH E3), it should also be searchable. PDF is
108 recommended. Of note, old CSRs may not fully comply with the current ICH E3 format. In this case, it
109 will be acceptable to provide the CSR in the original format in which it was written.

110 Individual patient data and associated documentation (Level 3) shall be published in the format they
111 are available at time of submission. That can be according to CDISC standards, and there was general
112 agreement that Applicants will move progressively to an increase use of CDISC standards.

113 It was recognised that CDISC has defined useful formats: SDTM (Study Data Tabulation Model) for
114 data tabulations, ADaM (Analysis Dataset Model) for analysis datasets, and define xml for metadata.
115 The recommendation is for all these to be submitted to the Agency. SDTM-annotated CRF would also
116 be very useful for data re-analysis. It was acknowledged that CDISC implementation guides can be
117 interpreted in different ways by Applicants, therefore EMA should define clear requirements in relation
118 to these guides.

119 If other formats can be used, EMA should define minimal requirements of more basic formats, such as
120 the following: clinical data should be submitted in the form of tables, in a comma-separated values
121 (CSV) format; associated metadata should contain at least one table with all datasets, all variables and
122 their meanings, associated code lists, and another table with all codes and decodes, and the variables
123 they relate to.

124 Individual data such as CRF data in PDF format are not useful as they will require substantial
125 manpower for reloading in another usable format. However, PDF scans of printed out CRFs might be
126 the minimal standard which is realisable even in a small academic institution or a small- and medium-
127 sized enterprise, in order not to add unnecessary financial and resource burden to the marketing
128 authorisation holder. The general view is that re-formatting of old data should not be requested by
129 EMA; however, some are of the opinion that EMA should ask the marketing authorisation holder to
130 provide the data in a format which is machine-readable and can be done with a non-proprietary
131 software.

132 Harmonisation of formats such as CDISC SDTM and ADaM is of course desirable as this expands the
133 usefulness of the data made available. This exercise shall be progressively implemented in a
134 collaborative way between CDISC and EMA to ensure consistency and versioning control.

135 Sustainability of a chosen standard might also require reducing the speed of versioning and ensuring
136 availability of software adapted to the subsequent changes of the formats. EMA guidance on formats
137 may not follow the evolution of CDISC modifications at the same rhythm if it imposes too much burden
138 on applicants. This will reduce the potential for re-formatting should a newer version be required.

139 Formats used across a number of studies for the same product do not need be compatible, although it
140 will be a bonus when it can be achieved. For the datasets there is a need to:

- 141
- Harmonise a reference format worldwide

- 142
- Maintain versioning over time

143 A point to discuss further concerns mixed formats acceptability, e.g. for fixed combination of old and
144 new active substances or hybrid mixed submission, when both clinical data from old studies and from
145 new clinical trials are included.

146 **5. Who should adhere to the agreed formats**

147 The formats agreed are to be adhered to by all stakeholders and also for locally run clinical trials
148 outside Europe if they become part of a submission to EMA. The Applicants should ensure correct
149 implementation of the formats and should also consider implication of terms translations from different
150 languages.

151 For clinical trials owned in different measure by multiple partners (e.g. public-private partnerships),
152 the above points should be taken into account from the beginning of the clinical studies. This concerns
153 data that are part of studies that are submitted to the Agency and where the marketing authorisation
154 holder is legally permitted to share the data.

155 **6. Timelines for format implementation**

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- While it seems reasonable to gain experience with formats of individual patient data (Level 3),
157 it is not recommended to have a test period for clinical study reports, because the format of
158 the CSRs, i.e. ICH E3, is in effect since 1996. Therefore the format for CSRs (Level 2) - and for
159 Level 1 - can be mandatory from the implementation of the policy. A transition period to
160 provide the documents was recommended by group members.

161

- Pro-active adoption of standard formats for Level 3 data: as this has to be mandatory for the
162 sake of fairness and clarity for all stakeholders, it is advised to start gradually to acquire
163 experience and then mandate formats after a trial period for all new studies submitted.

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- At the end of this trial period, all levels of data can be released at the same time.

165 **7. International harmonisation across regulatory agencies**

166 The EMA is leading in terms of policy but global alignment and harmonisation are critical steps in the
167 future process. EMA shall cooperate with the US FDA in the global development and alignment of
168 formats, e.g. through CDISC and ICH. A global consultation of formats is recommended at the ICH
169 level (for human products and at the VICH level for veterinary products). The list of elements
170 discussed in Section 3 and the corresponding formats discussed in Section 4 need to be included in
171 that consultation. Communication with other national medicines agencies would also be beneficial. The
172 policy should also aim at implementing what will be widely used in future to further standardise the
173 process and prevent any re-formatting.

174 Under e-CTD, PDF, XML and other standards are allowed in MAA.

175 ISO, CEN and CDISC to define CSRs harmonised standards.

176

177 **8. References**

178 ICH E3 Structure and Content of Clinical Study Reports

179 http://www.ich.org/fileadmin/Public_Web_Site/ICH_Products/Guidelines/Efficacy/E3/E3_Guideline.pdf

180 Clinical Data Interchange Standards Committee

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Advice to the European Medicines Agency from the clinical trial advisory group on
Clinical trial data formats (CTAG2) – final draft advice outcome with comments

181 <http://www.cdisc.org>

182 ISRCTN

183 The International Standard Randomised Controlled Trial Number (ISRCTN) is a simple numeric system
184 for the identification of clinical trials worldwide.

185 http://www.nlm.nih.gov/bsd/policy/clin_trials.html

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Annex I - Comments from participants below may or may not have been made on behalf of the organisation they are affiliated with.

Line number	Comment and Changes proposed	Name	Affiliation
5-8	<p>General comment: The individual patient data is the most sensitive issue in the overall policy discussion. Other working groups are tending to move towards a restrictive approach of making individual patient level data available for a number of reasons, including in particular the protection of patient confidentiality.</p> <p>Proposed change (if any): We suggest the introductory remarks take due consideration of this point.</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
15	<p>Comment: I agree with the definition stating that the advice refers to all data submitted throughout the life-cycle of a drug. This is important to be able to assess the growing evidence on a drug during its life cycle.</p>	Beate Wieseler	IQWiG
19	<p>Comment: I strongly support the planned publication of clinical trial data (Level 1 and 2 data) available at the Agency. These clinical trial data are required to assess drugs in current use beyond the assessment provided by the regulatory agencies for marketing authorisation. Examples for additional assessments which could be informed by these clinical trial data are indirect comparisons required for comparative effectiveness research or questions of reimbursement. Furthermore, availability of clinical study reports (CSRs) for drugs in current use will decrease the problem of publication bias and outcome reporting bias. This potentially will improve evidence-based clinical practise guidelines and thus treatment of patients.</p>	Beate Wieseler	IQWiG

Line number	Comment and Changes proposed	Name	Affiliation
25	<p>Comment: With a view to clarify which “documentation” is being requested, we suggest to provide further specification , i.e. documentation that provides further understanding of data (i.e., metadata), versus documentation data flow from emails, DMCs, etc.</p> <p>Proposed change (if any): “It includes both the type of electronic files and the structure of the files, as well as associated documentation that provides further definition of the database metadata.”</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
33	<p>Comment: Since the intention is to provide access to anonymised patient level data instead of broad publication, this needs to be differentiated.</p> <p>Proposed change (if any): “Formats may be different depending on the type of information to be provided access to or to be made publicly available and the intended use of it.” (delete: “and data should be made available irrespectively”).</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
36	<p>Comment: I agree with the requirement of an indexed list in the submission. For each drug a cumulative overview of clinical trials from all submissions should be available.</p> <p>Proposed change (if any): A cumulative indexed list of all clinical trials present in the submissions shall be provided ...</p>	Beate Wieseler	IQWiG
46	<p>Comment: In addition to journal publications it would be useful to be able to link back the clinical trials to trial registries (Eudract, clinicaltrials.gov, ISRCTN registries).</p> <p>Proposed change (if any): It is thought to be useful to be able to link back clinical trials to journal article information and to trial registries (Eudract, clinicaltrials.gov, ISRCTN registries).</p>	Beate Wieseler	IQWiG
53	<p>Comment: Excel is proprietary and limiting due to specific functionalities. Should be more generic, like tabular format or CSV.</p> <p>Proposed change (if any): Patient data level should be</p>	Patrick Lamplé	Institut de Recherches Internationales Servier

Line number	Comment and Changes proposed	Name	Affiliation
	available in tabular format.		
53	<p>Comment: We are sceptical that the (re-) analysis of patient level data can be done in Excel.</p> <p>Proposed change 2 (if any): Entire removal of this line item would be the preference. Alternatively, an explanation would be supported that patient level data should be provided “ideally” in a format that could be converted into Excel format.</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
54	<p>Comment: It is very important that patient-level data are provided with sufficient accompanying information to allow for understanding of the patient-level data and of the summary data presented to the Agency and to allow for further processing of the data.</p>	Beate Wieseler	IQWiG
62 -63	<p>Comment: We have difficulties to understand why there should be a mandatory requirement that the data should be readable with non-proprietary software.</p> <p>Proposed change (if any): Delete reference to “non-proprietary software” or provide further reasoning.</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
79-80	<p>Comment: For privacy issues CT scans etc. should not be submitted, but derived data are included in the dataset.</p> <p>Proposed change (if any): “Members of the industry are of the opinion that the publication of these types of data may cause data privacy protection issues and therefore there should be no request to provide originals.”</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA

Line number	Comment and Changes proposed	Name	Affiliation
82	<p>Comment: I would like to suggest including basic information about the study in the list of trials. This would make it much easier to understand the relevance of a trial for a given question. Furthermore, it would be helpful, if the list would include information on the materials available for the study, e.g. full CSR or abbreviated CSR.</p> <p>Proposed change (if any): Level 1: for each product, a full cumulative list of clinical trials, including a unique study identifier, the study title, the interventions and the indication studies; these lists should be fully searchable and could be connected to the European Public Assessment Reports. This is separate to information stored in the EUdraCT database. The list should also include information on the materials available for the study.</p>	Beate Wieseler	IQWiG
85	<p>Comment: I strongly agree that full clinical study reports (CSRs) according to ICH E3 including all appendices as detailed in ICH E3 should be made available. IQWiG has worked with these documents for its drug assessments and according to our experience availability of CSRs has substantially improved our understanding of a clinical trial and its results.</p>	Beate Wieseler	IQWiG

Line number	Comment and Changes proposed	Name	Affiliation
85-87	<p>Comment: Patient data listings require substantial anonymisation work including the generation of SAS programs to produce listings of the anonymised data. Since patient level data falls under “level 3” documents, for which access is being discussed under certain conditions, detailed patient level data should not be released in the context of “level 2” CSR publication or access. In line with the results of other working groups, it is also important to note that the CSR will have to be redacted for PPD and CCI. For clarification, Case Report Forms should only be requested as blank forms.</p> <p>Proposed change (if any): Remove reference to patient data listings: “Level 2: for each study, (delete: “full”) clinical study report (CSR) according to ICE E3, including (delete: “all”) appendices, as detailed in ICH E3 (study information and blank case report forms but excluding patient data listings) and redacted for protected personal data and commercially confidential information.”</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
87	<p>Comment: I am confused. CRFs appear both at levels 2 and 3. The text needs clarification. Is a level 2 CRF a specimen entry CRF and a level 3 a completed full CRF? Please clarify. See below</p>	Tom Jefferson	Cochrane ARI Group
87	<p>Comment: I strenuously object to completed CRFs been considered not part of a full CSR (i.e. Level 3). The rationale of the Level 2 data is the delivery of a complete self standing record of a trial. Complete includes anonymised completed CRFs. Level 3 should be the level of software-readable data which corresponds to the content of level, but is different in its aggregation/level of granularity or format.</p>	Tom Jefferson	Cochrane ARI Group
93	<p>Comment: Level 3 data without variable definitions and data derivation specifications would be incomprehensible. Holding back this information would invalidate the whole approach of making Level 3 data available. Test outputs should be part of CSRs.</p>	Beate Wieseler	IQWiG

Line number	Comment and Changes proposed	Name	Affiliation
93-95	<p>Comment: Clarification of industry position.</p> <p>Proposed change (if any): “According to Members of Industry, the following items should be removed from Level 3: (delete: variable definitions, data derivation specifications”) test outputs, SAS logs and SAS programs.</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
94	<p>Comment: I object to the any insinuation that I as a registered medical practioner who is also a Cochrane researcher would engage in actions leading to identification of participants. If I did that, anyone could report me to the UK's General Medical Council and my name would be erased from the list of medical practioners. I would lose my livelihood. I would also loose the respect of my peers. I do not need industry to teach me professional ethics. The secrecy argument has been carried out too far under the guise of patient protection. A good example is the proposal that variable definitions, data derivation specifications, test outputs, SAS logs and SAS programs be removed from level 3. This would make the whole level 3 data unreadable. If you accept that, you might as well delete level 3 altogether.</p>	Tom Jefferson	Cochrane ARI Group
98	<p>Comment: Table 1 shows that historically EMA has not requested all data described in the current advise (such as Level 3 data). However, the text should clarify that EMA will request further data (e.g. Level 3 data) in the future.</p> <p>Proposed change (if any): The following table (Table 1) lists data elements, level of information, format in current submissions and whether they have been routinely requested by EMA in the past. Based on the new policy on data transparency EMA will request more data in the future.</p>	Beate Wieseler	IQWiG

Line number	Comment and Changes proposed	Name	Affiliation
98-99	<p>Comment: The table provides for a listing of information submitted to the EMA only.</p> <p>Proposed change (if any): "The following table (Table 1) lists data elements, level of information, format in current submissions and whether they are routinely requested by the EMA. As access to or publication of information will be in line with the level 1 and 3 definition above (cf. line 82-95), any further requests to data/ information listed in table 1 will require consideration on a reasoned case-by-case basis."</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
100, Table 1	<p>Comment: Only selected data listings are provided in the CSR today, the remaining ones are usually available only on request.</p> <p>Action: "16.2 Selected patient data listings."</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
106	<p>Comment: It should be explored, if a database format would be more suitable for Level 1 data.</p>	Beate Wieseler	IQWiG
110	<p>Comment: Since the intention is to provide access to anonymised patient level data instead of broad publication, this needs to be differentiated. We would not agree that patient level data (even when anonymised) should be made publicly available. (Consistent with Comment Line 33).</p> <p>Proposed change (if any): "Access should be provided to individual patient data and associated documentation (Level 3) in the format they are available at the time of submission..."</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
116-117	<p>Comment: In line with line 167-168, EMA and FDA requirements should be aligned.</p> <p>Proposed change (if any): "It was acknowledged that CDISC implementation guides can be interpreted in different ways by Applicants. Therefore, EMA and FDA requirements in relation to these guides should be consistent."</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA

Line number	Comment and Changes proposed	Name	Affiliation
120-121	<p>Comment: The use of CSV files for provision of non-CDISC data is not consistently supported. Tables could, for instance, also be created in a SAS XPT format.</p> <p>Proposed change (if any): delete "...clinical data should be submitted in the form of tables, (delete: in a comma-separated values (CSV) format);..."</p>	Sabine Atzor, Hans-Ulrich Burger	EFPIA
124	<p>Comment: While pdf scans or print out CRFs might be the only available documentation of Level 3 data in very rare cases, it should be clear that formats described in the paragraphs above should be submitted if available at the sponsor. This will always be the case if summary analyses of data are provided.</p>	Beate Wieseler	IQWiG
156	<p>Comment: I agree that there is no need for a test period for clinical trial lists (Level 1) and CSRs (Level 2). I do not see the requirement of a transition period for these data formats as they are available at the MAH and have to be submitted to the Agency with the regulatory submission file.</p>	Beate Wieseler	IQWiG