Investigator Site eSource-Readiness Assessment

A tool for common assessment across sites and sponsors



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Section 4. Sponsors, we request that the eSRA Questionnaire (Section 5) is not removed from this handbook prior to sending to sites as it should not be distributed without the instructions and license agreement provided in this

handbook.





1 Table of Contents

1	INT	TRODUCTION	2
	1.1	About the eClinical Forum	2
	1.2	Disclaimer, Copyright and License	2
2	OV	ERVIEW	2
	2.1	Why assess investigator site systems against clinical research regulations?	2
	2.2	If my software vendor is certified, do I still have to fill out an eSRA?	3
	2.3	Which Site Systems should be assessed?	3
3	ESF	RA INSTRUCTIONS	4
	3.1	General Notes on Completing eSRA	4
	3.2	How to save a completed eSRA questionnaire without this Handbook	5
	3.3	Completing the eSRA Fields	5
	3.4	If a Site has another industry questionnaire for this system	6
	3.4.	1 FDA 21 CFR Part 11	6
	3.4. Sys	2 Japan MHLW's Security Management Guideline for Medical Information tems 7	
	3.5	Glossary of Terms used in eSRA	8
	3.6	Additional Resources	10
4	DIS	SCLAIMER and LICENSE for FAIR USE of eCLINICAL FORUM MATERIALS	10
5	ESF	RA QUESTIONNAIRE	11





1 INTRODUCTION

1.1 About the eClinical Forum

The eClinical Forum (eCF) is a global not-for-profit and non-commercial, technology independent group representing members of the pharmaceutical, biotechnology, and allied industries. The eClinical Forum's mission is to serve these industries by focusing on those systems, processes and roles relevant to electronic capture, management and submission of clinical data. For further information visit the website at www.eclinicalforum.org.

1.2 Disclaimer, Copyright and License

The information presented in these works draws upon the combined current understanding and knowledge of the eClinical Forum on this topic and is provided as an aid to understanding the environment for electronic clinical research.

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2 OVERVIEW

2.1 Why assess investigator site systems against clinical research regulations?

Many of the data points needed for clinical research are originating in Electronic Health Records (EHRs), making the EHRs "eSource" for clinical research. Even if these data points are not used in their electronic state for clinical research, but are printed from the EHRs and then re-entered into an EDC (Electronic Data Capture) system for a clinical trial, the source of the information must still be confirmed as compliant with standards set forth in regulations and applicable guidance documents.

The eSource Readiness Assessment (eSRA) contains questions based on regulations and regulatory agency guidelines for clinical research data sources from FDA, EMA, PMDA, and ICH. In July 2018, the FDA issued a Guidance for Industry: Use of Electronic Health Record Data in Clinical Investigations, which states: "Sponsors and clinical investigators should ensure that policies and processes for the use of EHRs at the clinical investigation site are in place and that there are appropriate security measures employed to protect the confidentiality and integrity of the study data." This Guidance further stresses the need for an assessment such as eSRA and identifies key areas that should be assessed, all of which are contained in the eSRA questions.

The eClinical Forum commits to updating the eSRA questions as would be needed when updates are made to the underlying documents and/or new pertinent documents are released from any of the regulatory authorities listed above. We anticipate releasing an updated eSRA in the first quarter of each year.





2.2 If my software vendor is certified, do I still have to fill out an eSRA?

While an EHR system certification (e.g. US ONCHIT certification or EUROREC certification) can indicate a vendor-supplied EHR system will manage data appropriately, it is still necessary for an eSRA to be conducted to demonstrate that the site has set up the vendor system and associated processes appropriately with the necessary process controls to maintain a compliant environment. It is the sponsor's responsibility to ensure that the site environment (both system and process) is appropriate for collecting and managing data used for clinical research. To provide evidence for the sponsor to complete this responsibility, a site will need to answer the questions in the eSRA questionnaire.

The FDA Guidance indicates that any EHR system certifications (both in US and other countries) be identified in documentation provided by the site to the clinical trial sponsor. eSRA provides an area for a site to complete this information.

See section 3.4 for additional information on completing an eSRA if your system has been evaluated for 21 CFR Part 11 or Japan's "Security Management Guideline for Medical Information Systems" (MHLW SMG).

2.3 Which Site Systems should be assessed?

Any site system that manages subject source data that ultimately will end up in a regulated clinical trial - regardless of who the owner of the system is and what access to the data the site has - should be evaluated for suitability such that the sponsor can determine if they are comfortable if source data from this system is used in their trial. This includes the entire data journey from source to sponsor. For example, lab data may originate on a lab system, then sent to an EHR system and then transferred into the site's clinical research warehouse prior to being given to sponsors. In this case, each system that manages the data (the lab system, the EHR system, and the site's clinical research warehouse) would need to have a separate eSRA evaluation. And inversely, any system that needs to be identified in the Protocol may need an eSRA.

Please note: Only areas / modules of an electronic system that are being used to enter, store, manage, or otherwise handle records that will be used for clinical research need to be evaluated. For example, the portion of an EHR system that might be used to handle insurance claims or other payments would not need to be evaluated.

Following is an example list, but not an exhaustive list of source systems that might provide data or manage data used for regulated clinical research:

- Electronic Health Record Systems (EHRS) or Electronic Medical Record Systems (EMRS)
- Laboratory/Diagnostic Systems
- Imaging Systems (e.g., x-ray, CT scan)
- Pharmacy Systems (if used to hold records of subject medication dosing)
- Radiology Systems





3 ESRA INSTRUCTIONS

The eSRA Questionnaire is provided in section 5 of this handbook. *Please read the following notes before completing the questionnaire:*

3.1 General Notes on Completing eSRA

- A separate questionnaire should be used for each of the site's systems that will be used as source for clinical research subject records.
- A site should be aware that a "No" answer to a question does NOT mean that the site will be rejected for clinical trial participation, but rather that the sponsor will work with the site to ensure that any potential risk is mitigated. Some questions have an asterisk * next to the "No" (No*), indicating compliance with this item is "strongly recommended". If a site is not compliant with these questions, your sponsor may recommend that your electronic system is not used to source clinical research data until this item can be answered "Yes".
- Investigator site responsibility with respect to system installation, validation and maintenance may be handled by the site's IT department and/or a vendor. In these cases, the investigational site is still responsible for ensuring that these other parties are fulfilling these responsibilities for any systems providing data used in clinical research.
- Sites should retain all completed eSRA assessments for use in improving their systems and processes and to assist them with future system assessments. We strongly recommend that a site stores their completed eSRA with a central department that is responsible for maintenance of the electronic system. In this way, any future requests for an eSRA on this electronic system, by any part of that site's organization, can benefit by starting with the previously completed eSRA. When a site is requested by a sponsor to complete an eSRA, they should first check with the department responsible for maintenance of their electronic system to find out if an eSRA was previously completed for the same version of the electronic system they are using. If so, they need only to answer the process questions that are identified by a ^ next to the "Suggested Responder" (e.g., Site Coordinator ^).
- In addition to completing an eSRA, it is recommended that sites have a documented site process regarding how source data are collected and managed.
- An investigator can avoid multiple requests from different sponsors for information
 pertaining to regulatory appropriateness of their systems and processes, as the same
 completed eSRA can be given to each sponsor they work with. Investigators should urge
 their sponsors to use the eClinical Forum eSRA questionnaire rather than a custom
 questionnaire from the sponsor. The eSRA website has a document "Implementing eSRA:
 Sponsor's Perspective" that will be very useful to sponsors.
- Investigators can provide feedback to the eClinical Forum on this eSRA handbook or questionnaire via eSRA@eclinicalforum.org.





3.2 How to save a completed eSRA questionnaire without this Handbook

Once completed, the easiest way to make an immutable copy is to Print the file to a .pdf. This will produce a .pdf file that cannot be changed through ordinary means.

The easiest way for SITES¹ is to:

- 1) Download/Save the entire file handbook and questionnaire
- 2) Complete the questionnaire in this file
- 3) Save to an immutable .pdf
 - By choosing "Print to pdf" from your print facility rather than using the "Save" feature, you are making a copy that cannot be changed through ordinary means
 - Sites can choose to print-to-pdf only the completed eSRA pages; it is not necessary for a site to retain the handbook once eSRA has been completed.

3.3 Completing the eSRA Fields

Official Institution Name,	The exact name of the clinical research institution as it appears
Official Site Name	on contracts should be entered here.
Centre Number,	These are optional fields. If the site is completing this
Sponsor Organization Name,	assessment for a specific research sponsor, then identifying
Study Numbers	information from the sponsor can be entered here. If the site
	is completing this assessment to provide to all of their research sponsors, these fields should be left blank.
Institution Address	The address of the clinical research institution as it appears on contracts.
User Contact Details	The contact information of the person responsible for the upkeep of this assessment. Please also enter a backup person to be contacted if the main contact is not/no longer available.
Developer/Vendor Company	The exact name of the system vendor as it appears on
Name	contracts.
System Name	The complete name of the system. Please complete a separate assessment for each system currently used with clinical research data. Note: Sponsor-supplied systems do not need to be assessed by the clinical research site.
Modules applicable to this	Only modules that have the potential to collect, manage, or
Assessment	store data that could be used as clinical research source data
	need to be assessed. For example, a module related to

¹ Sponsors must provide the entire Handbook and Questionnaire to their sites such that sites have the information needed to complete the eSRA. Only sites should remove the questionnaire from the Handbook.





	healthcare insurance would not be part of the eSRA
	assessment.
Description of System	A brief description of what the system does. If it is an electronic
	medical/health record system, just enter EMR or EHR
If this system is certified by	USA Office of National Coordinator (ONC) requires that
ONC or other authorizing	organizations receiving Medicare must use ONC-certified EHR
certification body, list the	systems. Other countries may also require certification.
certification body name,	Please note: if at any time this system is decertified, all
certification name and	sponsors must be notified of the reason for decertification. This
version, date of certification.	eSRA must be updated.
eSRA Criteria Questions	Please review and reply to each question. No questions may be
	skipped.
Suggested Responder	This is a suggestion from the eClinical Forum eSRA team. This is
	meant to help individuals completing the assessment identify
	the person in the organization who might best be able to
	answer the question.
Notes	Where appropriate, additional information has been provided
	to help clarify the question.
Investigator Site Response	If the system, as supplied by the vendor, and implemented at
"No"	the site does not satisfy the eSRA criterion, this answer must be
	"No". If there is a procedural workaround, it can be described
	in the comment.
	In some cases, you may want to request your system vendor to
	provide the capability in a future release of their system.
No*	This criterion is strongly recommended: If the question has an
	asterisk * next to the "No" and the site response is "No", it is
	recommended that this system is <i>not</i> used to source clinical
	research data until this item can be answered "Yes".
Additional Information/ Plans	This area is for any comments about any portion of this
to correct deficiencies as	assessment or about the system that the site staff would like to
identified in this assessment /	convey to sponsors. If there are areas that are non-compliant,
Information on system	the site should indicate plans to improve compliance. If the
certifications	system vendor has provided a statement or certification
	regarding compliance to any regulatory requirements (e.g., 21
	CFR Part 11), the site should indicate this, and attach the proof
	from the system vendor.
Signature Blocks	A sponsor can determine if signatures are required. In some
	countries, a PI signature is required.

3.4 If a Site has another industry questionnaire for this system

The following industry questionnaires have been mapped to the current version of eSRA and can be of assistance in completing an eSRA, if a site already has one of these completed.

3.4.1 FDA 21 CFR Part 11

If the site system vendor has provided a statement/certification that their system is compliant with FDA 21 CFR Part 11, the site may skip some of the eSRA questions, provided that this vendor statement/certification is attached to the eSRA such that it is permanently saved with the eSRA. The site must indicate on eSRA (in the comment block at the end) that supporting documentation is attached and specify exactly what this is. The sponsor should store this





statement/certification with the completed eSRA for that site. A 21 CFR Part 11 certification from a vendor can only ensure that the electronic system provided by the vendor meets 21 CFR Part 11 criteria. It does not provide information about the system as installed and used at the site and for this reason, many of the eSRA questions must still be answered by a site using a 21 CFR Part 11 certified system.

For eSRA V2021 and V2022, the following questions can be skipped by the site, only if a vendor statement/certification of 21 CFR Part 11 is provided: 3, 5, 6, 7, 8, 14, 15, 30.

3.4.2 Japan MHLW's Security Management Guideline for Medical Information Systems

In Japan, healthcare institutions are expected to follow "Security Management Guideline for Medical Information Systems" (MHLW SMG) which lists requirements and recommendations to ensure authenticity, readability and retainability of the electronic records in the medical information systems. Many of them overlaps with eSRA questions. The following table shows the correspondence between eSRA Questions and MHLW SMG requirements. In the table, "Applicability" has the following meaning:

A-1: The eSRA question is fully addressed by the corresponding MHLW SMG requirements A-2: The eSRA question is partially addressed by the corresponding MHLW SMG requirements

B: The eSRA question is not addressed in MHLW SMG

eSRA V2022	Applicability	MHLW SMG	
Question	4.10	72.04.72.02	
1	A-1	7.2-C.1, 7.2-C.3	
2	A-2	8.1.2-B.2, 8.1.2-B.3	
3	A-1	7.1-B, 7.1-C	
4	В	5.2	
5	A-1	7.1-B, 7.1-C, 7.2-C.3	
6	A-2	7.1-B.1(1)	
7	A-1	6.8-B., 6.8- C.	
8	A-1	6.5-C.9, 7.1-B.2(3), 7.1-C.2	
9	A-1	6.5-C.6, 6.5-C.13, 7.1B.2(1), 7.1-C.1, Attached Table 1	
10	A-2	6.5-B(1), Attached Table 1	
11	В		
12	В		
13	A-1	6.5-D.4, 6.9-D.4	
14	A-1	6.5-B(3), 6.5-B(5)	
15	A-1	6.5-C.13(4)	
16	A-1	6.5-B(1), 6.5-C.4, 6.5-D.2	
17	A-2	6.5-C.6	
18	A-2	7.2	
19	A-1	6.10, 7.2-B, 7.3-B(2), 7.3-C.2, 7.3-D.1	
20	A-2	6.10, 7.2-B, 7.3-B(2), 7.3-C.2, 7.3-D.1	
21	A-1	7.3	
22	A-1	6.10, 7.2-C.4, 7.2-D.2	





23	A-1	6.10, 7.2-C.4, 7.2-D.2
24	A-1	Attached Table 1
25	В	4.1, 6.2.3
26	В	6.8
27	A-1	6.5-B(4)
28	A-1	6.11
29	A-1	4.2.1, 6.11
30	A-1	6.12
31	A-1	4.1(2), 6.10-C.5

3.5 Glossary of Terms used in eSRA

A 10 A 10 A 10 A	
Audit trail / Audit log	A secure, computer generated, time-stamped electronic record that allows reconstruction of the course of events relating to the creation, modification, and deletion of an electronic record.
Certification	A quality labeling process provided by an independent, unbiased,
	professional and trustworthy organization that will indicate that
	a system has met a specific set of criteria. (eSRA is not a
	certification.)
Certified Copy	A copy (irrespective of the type of media used) of the original
	record that has been verified (i.e., by a dated signature or by
	generation through a validated process) to have the same
	information, including data that describe the context, content,
	and structure, as the original.
Clinical trial	Any investigation in human subjects intended to discover or
	verify the clinical, pharmacological, and/or other
	pharmacodynamic effects of an investigational product(s),
	and/or to identify any adverse reactions to an investigational
	product(s), and/or to study absorption, distribution, metabolism,
	and excretion of an investigational product(s) with the object of
	ascertaining its safety and/or efficacy. The terms clinical trial and
	clinical study are synonymous.
CRO	Contract Research Organization (CRO) A person or an
	organization (commercial, academic, or other) contracted by the
	sponsor to perform one or more of a sponsor's trial-related
	duties and functions.
Data Breach	From GDPR: Personal data breach means a breach of security
	leading to the accidental or unlawful destruction, loss, alteration,
	unauthorised disclosure of, or access to,
	personal data transmitted, stored, or otherwise processed.
EHR	Electronic Health Record (EHR): EHRs are electronic platforms
	that contain individual electronic health records for subjects and
	are maintained by health care organizations and institutions. For
	example, a typical EHR may include a subject's medical history,
	diagnoses, treatment plans, immunization dates, allergies,
	radiology images, pharmacy records, and laboratory and test
	results. EHRs can be used by health care institutions to integrate

	real-time electronic health care information from medical
	devices and different health care providers involved in the care of subjects.
EMR	Electronic Medical Record (EMR): Some healthcare organizations have or refer to their electronic system as an EMR (Electronic Medical Record). EMRs are typically narrower in scope than an EHR, however for purpose of this assessment, the terms EHR and EMR are interchangeable.
eSource / Source Data	Source Data: All information in <u>original records</u> and certified copies of original records of clinical findings, observations, or other activities (in a clinical investigation) used for the reconstruction and evaluation of the trial. eSource: Electronic source data (eSource) are data initially recorded in electronic format.
Investigator	A person responsible for the conduct of the clinical trial at a trial site. If a trial is conducted by a team of individuals at a trial site, the investigator is the responsible leader of the team and may be called the principal investigator.
IT, Site IT	Information Technology. Investigator Site IT should include a Data Privacy/Protection Officer and Records Retention staff particularly during set-up and maintenance of the system.
Metadata	Metadata are data that describe the attributes of other data and provide context and meaning. Typically, these are data that describe the structure, data elements, inter-relationships and other characteristics of data (e.g., audit trails). Metadata also permit data to be attributable to an individual (or if automatically generated, to the original data source). Example: Trial subject A123, sample ref X789 taken 30/06/14 at 1456hrs. 3.5mg. Analyst: J Smith 01/Jul/14
ONC	Office of the National Coordinator for Health Information Technology (U.S.) – provides a program of Health IT certification
Readily Available	Able to be produced for auditor review in a reasonable and/or agreed upon timeframe.
Research Protocol	(Also called Clinical Trial Protocol) A document that describes the objective(s), design, methodology, statistical considerations, and organization of a trial. The protocol usually also gives the background and rationale for the trial, but these could be provided in other protocol referenced documents. In this document, the term protocol refers to protocol and protocol amendments.
SOP	Standard Operating Procedure
Sponsor	Clinical research sponsor (e.g., bio-pharmaceutical company)
Unsuccessful vs Unauthorized access attempt	This refers to questions 13 and 14. An "unsuccessful" access attempt refers to a legitimate user forgetting their access information (e.g., their username or password). An "unauthorized" access attempt refers to a non-user attempting to gain access (e.g., through hacking).





Validation	ICH E6 (R2): 1.65 Validation of Computerized Systems: A process
	of establishing and documenting that the specified requirements
	of a computerized system can be consistently fulfilled from
	design until decommissioning of the system or transition to a
	new system. The approach to validation should be based on a
	risk assessment that takes into consideration the intended use of
	the system and the potential of the system to affect human
	subject protection and reliability of trial results.

3.6 Additional Resources

- Documents available from www.eclinicalforum.org/eSRA:
 - o Implementing eSRA, Sponsor Perspective
 - o eSRA V2022 What has been updated?
 - Regulatory documents used as a basis for the eClinical Forum eSource Readiness Assessment (eSRA) Version 2022
 - This Handbook, translated into Japanese
 - Industry publication articles in English and Japanese

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 your intended use. For example, other rights such as <u>publicity</u>, <u>privacy</u>, <u>or moral</u>
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5 ESRA QUESTIONNAIRE

Clinical Research Sites should complete this assessment and provide a copy to each of their research sponsors. Sites should retain a copy in their files (in a central location, such as with the Site IT department) to assist with future updates.

Sponsors, we request that the eSRA Questionnaire (below) is not removed from this handbook prior to sending to sites as it should not be distributed without the instructions and license agreement provided in this handbook.





eSource Readiness Assessment (eSRA)

Assessment of eSource (EHR) Systems Used for Storing Source Data During Clinical Trials

About the eSRA Checklist...

The eSRA checklist allows a site to assess the GCP compliance of their Electronic Health Record (EHR) or Electronic Medical Record (EMR) system. Sponsors and sites will use the assessments to discuss any risks and appropriate solutions.

	igator Site nplete this form if your Electronic Healt	h Record System	n is or will be used to ho	ld the sour	ce of data used in Clinical Tria	ls.
	Date of eSRA Completion	Day	Month		Year	
Your Ins						
	titution Name				Official Si	ite Name
					(within In	stitution)
Address	line 1				Centre Nu (Optional)	
	line 2				Sponsor Organisati Name (Op	
City					Study Nu (Optional	imber(s)
State / Reo	gion					
Postal Cod	ie					
Country						
Site Descri	ption					
			Hear Contest D	ata:la		Pools in Llory Contact Potails
First Name			User Contact Do	etalis		Backup User Contact Details
i ii st i vaine	•					
Last Name						
Phone Nur	nber (optional)					
E-mail Add	ress					
Role						
System I	<u>Details</u>				System Version Detail	<u>s</u>
System Na	ime				Developer/ Vendor Company Nai	me
Version Nu	ımber		Release Date	Day	Month	Year
Modules a	pplicable to this assessment					
Description	n of System					

If this system is certified by The Office of the National Coordinator for Health Information Technology (ONC) Health IT Certification Program or other authorizing certification body, list the certification body name, certification name and version, date of certification. Please note: if at any time this system is decertified, all sponsors must be notified of the reason for decertification. This eSRA must be updated.

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eSRA CRITERIA

Please provide an answer for each question in order for the assessment to be considered complete.

	-			-	
	eSRA Criteria		Investigator Site Response		
	Asssessment Question	Suggested Responder	Investigator Site Response	Comment Required if response is "No" (Max: 160 characters)	
ecord	s for Clinical Research				
1.	Can all patient records captured in the EHR system be retrieved and reviewed in a way that is attributable to one trial subject.	Site Coordinator	Yes No *	Additional comments and/or plans to correct deficiencies as identified in this assessment	
	Note. ALL patient records do not need to be store must be able to be attributed to a particular patient ID, but rather about being sure that a	patient. This is NOT ab	out linking to a clinical		
2.	Are all records given to the sponsor via electronic or manual means de-identified, such that they do not contain any patient-identifiers that are prohibited by the country in which the study is taking place?	Site Coordinator ^	Yes No	Additional comments and/or plans to correct deficiencies as identified in this assessment	
	Note. If access to an electronic site system by a sidownloaded to their laptop, the answer to the personal health information to be downloaded computer.	nis question would be "r	no". It is not permissible for		
udit Tı	<u>rail</u>				
3.	Does the system have an audit trail recording date, time, and originator of any patient data creation, change, or deletion?	Site Coordinator in conjunction with site IT	Yes No	Additional comments and/or plans to correct deficiencies as identified in this assessment	
	Note. Site must ensure that audit trail (audit log) fu correctly. If an appropriate audit trail is not a signed and dated print out, will have to be ir	vailable additional prod	cess controls such as a		
4.	Does the audit trail include the reason for changes / deletions?	Site Coordinator	Yes No	Additional comments and/or plans to correct deficiencies as identified in this assessment	
5.	Is audit trail information readable and readily available such that actions are traceable with a reasonable effort?	Site IT or Site Coordinator	Yes No	Additional comments and/or plans to correct deficiencies as identified in this assessment	
	Note. If an appropriate audit trail is not available a dated print out, will have to be introduced to				
6.	Does the system prevent new audit trail information from over-writing previous information such that previous data can be accessed if data are changed or deleted?	Site IT	Yes No *	Additional comments and/or plans to correct deficiencies as identified in this assessment	
ystem	Date/Time as recorded in Audit Trail				
7.	Do controls exist to ensure users cannot change and/or turn off the system settings (e.g., change the system time and date) including the audit trail?	Site IT	Yes No	Additional comments and/or plans to correct deficiencies as identified in this assessment	

Note. This may be handled via the site operating system and associated procedures or via a hosting vendor. The site should ensure the method employed is working.

8. Does the system and/or processes adequately provide for identifying the local time of patient events?

Yes No N/A Additional comments and/or plans to correct deficiencies as identified in this assessment

Note

Where the system use may span time zones or the system may be located in a different time zone than where the study is being conducted, the time zone of the investigative office (e.g., local time to the patient) should be used in the audit trail, or there must be a clearly documented consistent way to derive the local time from the timestamp on the audit trail.

Site IT ^

Access Control

Are users, who create/modify/delete records, provided a unique access method (i.e.,.usernames and passwords, access keys, or biometric access) that is provided to only one person, and restricts access permissions and capabilities to only those system, functions and data that are appropriate to their job? Site IT and/or Site Coordinator ^

Yes No * Additional comments and/or plans to correct deficiencies as identified in this assessment

Note.

Sites must ensure that accounts are configured so that users have access to only those features that they should have access to (often referred to as roles). Also, there should be an administrator to grant accounts to users upon justification of their need for an account. A process should be in place to ensure that access is removed when an employee no longer has justification for using the system (such as getting assigned to a different area or leaving the organization). If you are using a hosted system, be sure that the vendor will provide the user administration and that you understand and employ the process for obtaining and removing accounts.

10. Is there policy/procedure/training that instructs users, who create/modify/delete records, not to share their unique access method or not to leave their account open for others to use? Site Coordinator ^

Yes No * Additional comments and/or plans to correct deficiencies as identified in this assessment

 Are monitors, auditors, or inspectors provided with a means to review electronic health records of patients who have consented to the clinical trial (via system or documented process)? Site Coordinator in Yes conjunction with Site IT ^ No

Additional comments and/or plans to correct deficiencies as

Note.

The investigator (or appropriate delegate) should be available to browse the patient's record on demand in case of audit, inspection or for monitoring purpose. It is recommended this requirement be part of the contract between the sponsor and the investigator (or the study center).

12. Is there a documented site procedure in place to ensure study staff are not unintentionally unblinded in studies where this is a requirement? Site Coordinator in conjunction with Site

Yes No N/A Additional comments and/or plans to correct deficiencies as identified in this assessment

Note.

If your site does now or may in the future handle blinded studies, this question must be answered. For example, information on pharmacy distribution should not be available for study staff to see.

 Does the system limit the number of unsuccessful log-in attempts? If "yes", please indicate in the comment block the number of unsuccessful attempts allowed. Site IT

Yes No * Additional comments and/or plans to correct deficiencies as identified in this assessment

Note.

An example of an unsuccessful log-in attempt is a forgotten password. This may be handled via the site operating system and associated procedures or via the EHR system. Site must ensure that this feature is installed and turned on.

14. Does the system keep a log of unauthorized access attempts?

Site IT

Yes No * Additional comments and/or plans to correct deficiencies as identified in this assessment

Note.

An example of an unauthorized access attempt is a hacking attempt. This may be handled via the site operating system and associated procedures or via the EHR system. Site must ensure that this feature is installed and turned on.

3 www.eclinicalforum.org Version 2022.1

Does the system require users to change their Site IT ^ Additional comments and/or plans to correct deficiencies as 15 password at established intervals; or, is there identified in this assessment No a documented manual process to ensure periodic change of passwords? If "yes", N/A please indicate in the comment block the established interval or explain the documented manual process. Note This requirement is not relevant when a biometric component is used to control user access (e.g. fingerprint, palm print, retina, etc.). Site must ensure that this feature is installed and turned on. The site is responsible for establishing reasonable intervals. If managing this via process, the site must provide and enforce a documented site process requiring password . change Is there an automatic log-off or other access Site Coordinator or Additional comments and/or plans to correct deficiencies as 16. Yes lock (e.g., password protected screen saver) identified in this assessment Site IT No * after a period of inactivity? If "ves", please indicate in the comment block the period of inactivity before the automatic logoff. Note Site must ensure that this automatic feature is installed and turned on. If using passwordenabled screen-saver function from your laptop or desktop system to satisfy this requirement, users should not have the ability to turn off the password-protected screen saver functionality. Site IT Additional comments and/or plans to correct deficiencies as 17. Can a list be produced, if requested, of all users, including past users, their access level/ identified in this assessment No * rights and the start and end date of these access rights? Note The site personnel log should also include other non-site persons who may have access to the clinical research electronic source data. This report does not have to be kept by the investigator, but should be available upon request from the IT dept or vendor which maintains the system. **Data Review** 18. Can patient records be copied in a Site Coordinator Yes Additional comments and/or plans to correct deficiencies as identified in this assessment validated process, including the audit trail No and coded data, to satisfy a regulatory requirement (e.g. inspector review or monitor review)? If your system does not provide this, a documented site process should address how a certified Note copy could be produced. **Data Backup, Retention and Recovery** Is the system backed up at appropriate and regular time intervals? If "yes", please indicate in the comment block the backup Site IT Yes Additional comments and/or plans to correct deficiencies as 19 identified in this assessment No * interval. This may be handled via the site operating system and associated procedures or via the EHR Note 20. Has the backup process been verified (tested) Site IT Yes Additional comments and/or plans to correct deficiencies as by either the system supplier or the site such identified in this assessment No * that the integrity of the backup can be assured, and verification documentation is readily available? 21. Are there process or system controls in place Site Coordinator in Yes Additional comments and/or plans to correct deficiencies as identified in this assessment to ensure that data and metadata (including conjunction with No * Site IT ^ audit trail) are enduring, continue to be available, human-readable and

Note. Sites are responsible for knowing the legal retention period for clinical research source records and for ensuring that methods employed to meet this requirement are working.

understandable and are retained in an archive

for the legal period?

22 Is there a documented process for continuing Site Coordinator in Ves Additional comments and/or plans to correct deficiencies as identified in this assessment conjunction with operations if the system is not accessible? No Site IT ^ Note: There should be a documented site process/plan describing how to handle an emergency or unexpected shutdown. You should have access to these documents. The site should check with their QA support and request immediate remediation if there is nothing already in place and/or if the process has not been tested. Site IT ^ Additional comments and/or plans to correct deficiencies as 23 Is there a documented and tested process Yes for recovery from an emergency or identified in this assessment No unexpected shutdown? The group responsible for backups, recovery plans for the system software/hardware (whether it is your IT department or a vendor) should have a documented site process describing how recovery from an emergency or unexpected shutdown will be handled and proof that this process was tested. You should have access to these documents. The site should check with Note. their IT and QA support and request immediate remediation if there is nothing already in place and/or if the process has not been tested. **System Development & Maintenance** Additional comments and/or plans to correct deficiencies as Are there documented records showing that Site Coordinator in Yes those maintaining or using the system have conjunction with identified in this assessment Site IT ^ No the training necessary to be able to perform their assigned tasks? Site IT ^ Additional comments and/or plans to correct deficiencies as 25 Does the site have a process to demonstrate Yes identified in this assessment that the development, hosting and No deployment of the computerized system follows good software lifecycle practices such that it is sufficiently validated? 26 Does the site maintain a record of system Site IT ^ Yes Additional comments and/or plans to correct deficiencies as version and dates, and documented and identified in this assessment No ' auditable validation of system changes made during clinical trial conduct? Note: When purchasing or upgrading software, it is typical to have a list of requirements for what it when purchasing or upgracing software, it is typical to have a list of requirements for what it should do and then test to see that it does perform those functions. Validation is a formalization of this process and good business practice. Validation is only required for the parts of the system (modules) necessary to comply with clinical research requirements. All validation/ testing activities should be documented such that they can be audited by the sponsor or inspected by a regulatory agency. If the system is upgraded to a new version the changes might require validation, depending on the extent and the scope of the changes. The site must be considered that the version of the version of the change is place to what does not be set on what does not be set of the changes. keep track of what version of the system was in place on what date. Site IT ^ Yes Additional comments and/or plans to correct deficiencies as 27. Is there antivirus software installed and updated regularly on all computers used to identified in this assessment No access or maintain data used for clinical trials?

Note. This may be handled via the site operating system and associated procedures. The site should ensure the method employed is working and documented. The site should check with their IT and QA and Service Provider to ascertain that there is antivirus software installed and updated regularly; and if this is not the case, it should be corrected immediately.

28. If electronic data is received from other systems (internal or external), are there appropriate technical or procedural controls to assure confidentiality and integrity of data received from these systems? Site IT ^ Yes
No
N/A

Additional comments and/or plans to correct deficiencies as identified in this assessment

29.		omputerized system is provided by a	Site IT in	Yes	Additional comments and/or plans to correct deficiencies as
	third pary (e.g. suppliers, service providers), are there formal agreements in place to clearly define responsibilities of each party (site and third party)?		cooperation with those third parties ^	No	identified in this assessment
				N/A	
	Note.	The department responsible can achieve th. Level Agreement), or in a "statement of wor.			
30.		onic signatures are used in your	Site IT	Yes	Additional comments and/or plans to correct deficiencies as
		to fulfill clinical research requirements, of the following true: 1) it is permanently		No	identified in this assessment
	linked to	o its respective record, 2) it includes		N/A	
	the name of the signer, 3) it includes the time and date of e-signature execution, 4) the				
		g associated with the e-signature is d (e.g., creation, confirmation, al).			
	Note.	There is no requirement that electronic sign protocol. The electronic signature can take they are legally valid within the jurisdiction v	various forms, including di	gital signature, as long as	
31.		a process that in case of data breach,	Site Coordinator in	Yes	Additional comments and/or plans to correct deficiencies as
		onsor and/or relevant Data Protection sory authority are notified?	conjunction with Site IT ^	No *	identified in this assessment
	Note.	In absence of a federal supervisory authorit data breach to the sponsor.	y, the site process should i	indicate to report any	
		A	DDITIONA	L INFORMAT	ION

Additional Comments from Site

	What level of risk (low, medium, high) does the site consider their system, based on the deficiencies identified in this assessment?	Site Coordinator in conjun	ction with Site IT	High Medium Low	Additional comments and/ or plans to correct deficiencies as identified in this assessment
Principal Inve	stigator signature and date (optional)		Sponsor/CRO monitor signature and o	date (optional)	
Principal Inve	stigator follow-up review signature and date (optional)		Sponsor/CRO monitor follow-up review	w signature and date (optional)	

- * Strongly recommended -- Based on clinical research regulations and guidances, it is not recommended to use eSource from this system if the answer to this question is "No".
- ^ indicates a process question that must be answered if the site is using a previously completed eSRA from another part of their organisation.

Instructions and License Agreement pertaining to this Assessment Form can be found at www.eclinicalforum.org/esra.aspx in the eSRA Handbook.

Model 5.7