

ALEA instructions for Pathologist/ Pathology Review

This document provides instructions, guidelines and background information for Pathologist/Pathology Review regarding the Electronic Data Capture (EDC) system of ALEA, as implemented by the Erasmus MC – HOVON Data Center.

Erasmus MC – HOVON Data Center

22JAN2019

Version: 01

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2. ALEA

ALEA is supported by most commonly available web browsers (i.e. Internet Explorer 7.0 and higher, Mozilla FireFox, Google Chrome, Safari (Apple), and Android 4.0 and higher).

Used documentation: Forms Vision ALEA data management User Manual v.5.4.

Instructions are applicable to ALEA Data management version 17.1.

Manuals for ALEA are available for:

- Central Data Management (CDM)
- Central Laboratory (CLAB)
- Cytogeneticist/ Cytogenetic Review
- Local Data Management (LDM)
- Local Investigator (LI)
- Pathology/ Pathology Review (PA)

This ALEA Manual is suitable for general HOVON studies. Specific directions for filling out the forms can be found in study specific instructions. Slight variations in the examples given in the manual might be due to the study-design and to the eCRFs used.

2.1 Data organization

The data are organized around Events and associated Forms (CRFs). Events can be considered as separate, consecutive phases during the conduct of the trial (e.g. Registration/ Randomisation, On Study, Treatment, Follow Up). Events include one or more different Forms (e.g. Lab Results, Treatment Details, Response Evaluation). An example of an Event and associated Forms:

<u>Event</u>	<u>Forms</u>
Treatment	Treatment Details Lab Results Response Evaluation

Some Forms are not linked to specific Events and defined as independent Events (e.g. Adverse Events, Concomitant Medication).

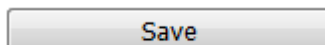
2.2 Workflow

Data follows a certain workflow before it is ready for statistical analysis. Specific user roles (the Local Data management (LDM), Central Data Management (CDM), the Local Investigator (LI)) are responsible for a certain stage of the workflow:



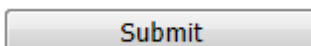
Saving

First the data are entered and saved by the LDM. Data can be saved at all times; it is not required to complete all fields in order to be able to save the Form. ALEA automatically saves every two minutes.



Submitting

The Submit button will be enabled when all data meet automated checks (e.g. boundary checks and inconsistency checks), all required fields are completed and all discrepancies are properly addressed (see chapter 6.3). If data are modified afterwards, the status Submit is revoked, and the Form has to be submitted again (with reasons provided why data were changed).



Verifying

Once data are submitted the CDM reviews the provided information. Manual queries can be raised and the CDM can set the form to Verified. A Form can be verified, even if there are outstanding queries or discrepancies. This status indicates to the LDM that the CDM has reviewed the Form and that queries – if any - can be answered. Editing a verified Form will revoke the status Verified.

Set verified

Signing and Locking

When there are no more open queries, the LI can sign off the Forms.

Sign Off

Signing off a Form will automatically lead to locking for further data entry. The CDM can also lock or unlock forms (if necessary), before forms are signed off by the LI. Unlocking after Forms were already signed off requires resigning by the LI.

Lock form(s)

Unlock form(s)

2.3 Request for account

Users who don't have access to ALEA studies initiated by the Erasmus MC – HOVON data center (HDC), can request form a *general* ALEA user account. ALEA accounts are created on the basis of personal e-mail accounts via a request form (Appendix A). A personal e-mail account can only be used for one role within ALEA, hence it requires several e-mail accounts for users with more than one role in ALEA.

Next, access to the *study specific* database will be granted to study personnel (i.e. the Local (sub)Investigator(s) and Local Data Manager(s)) by the Trial Manager of the study.

2.4 Login

The URL to the ALEA portal is: <https://aleaclinical.com/Hovon/DM/DELogin.aspx?>

It is recommended to bookmark this link in the Favorites section of your web browser.

Login to Alea Data Management

Username

Password

Login

[I forgot my password / I never logged in before](#)

[Terms, conditions and privacy](#) [About](#)

Logging in for the first time

Through the option “I forgot my password / I never logged in before” you can send a request to receive an email (from EMC TENALEA Mail Service info@formsvision.net) with a one-time link.

! **IMPORTANT:** For security reasons, this link expires within 30 minutes after receiving the email. Check your spam or junkmail folder if no email is received.

The following message may appear:

- No account has been provided yet, please contact the trial manager of the study
- The email address is incorrectly entered, →check the spelling

After logging in for the first time, using your email address as username, the following message appears:

By agreeing with the terms and conditions, the following screen will be displayed. Here you can enter a (new) password. Choose a password with a minimum length of 8 characters, containing at least one digit (e.g. 1,2,3).

Once your password has been successfully changed/ accepted, the account has been activated and ALEA is accessible.

Your password has expired. Please enter a new password

Password expiration
The password you set now will expire in 365 days. When you log in after your password has expired, you are prompted to renew your password after logging in. You can change your password at any time by selecting *forgotten password* in the TENALEA login screen, or by selecting *Change password* from the data management menu.

Password length
The password you set should have a minimum length of 8 characters.

Your password has expired. Please choose a new password, enter it in both fields and confirm by pressing set password.

Accountname

New password

Confirm new password

Your password has been changed

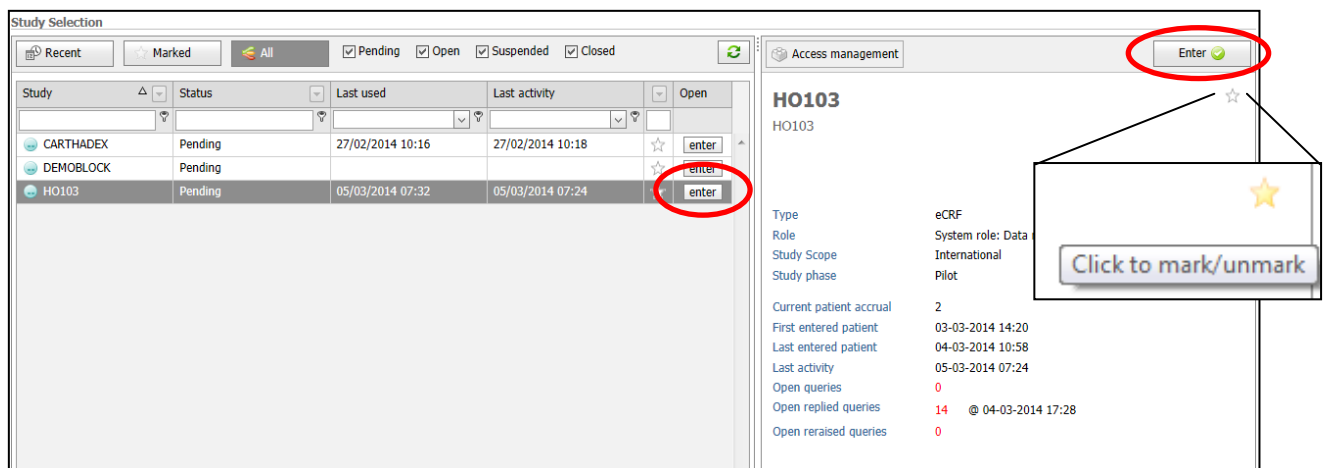
3. Study Selection and organization

Study Selection

If you have access to multiple studies, you will enter a Study Selection page upon login. This split-screen shows an overview of all studies you have access to and a brief summary of the highlighted study.

You can mark your favorite studies by clicking the star in the upper right corner of the summary section or by clicking the star in the column (on the left of the enter button).

Open the study of choice either by clicking the Enter button of the highlighted study or the Enter button in the header of the summary section.

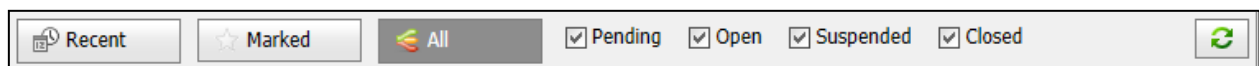


A study specific homepage appears, displaying the selected study on the study button in the upper left corner. To return to the Study Selection page, click this study button.



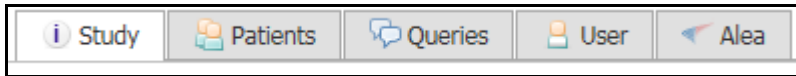
Organizing studies

Studies can be shown or hidden according to several criteria. Default all studies are displayed. By (un)selecting one or more criteria, ALEA shows the respective studies. For example, favorite studies can be displayed by clicking Marked.



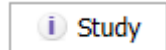
4. Study overview

A study homepage is organized according to the following tabs:



Please note that these tabs are only available if you are not working in a Patient Dossier (Chapter 5).

The Study tab shows the study details:

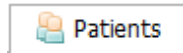


Here you can access study documents (if available, e.g. CRF instructions) or information on study accrual (with the option to adjust the chart settings).

Title	Filename	Date	Open
Category:			
	20161220 123846 20151119 155144 HO132_CRF instructions_29OCT15.pdf	20-Dec-2016 12:38:46	open
	20161220 123819 20151119 155144 HO132_CRF instructions_29OCT15.pdf	20-Dec-2016 12:38:19	open
Category: ALEA instructions for Local Data Managers			
	ALEA instructions for Local Data Managers_24JUN15	28-Apr-2016 07:35:04	open

5. Patients overview

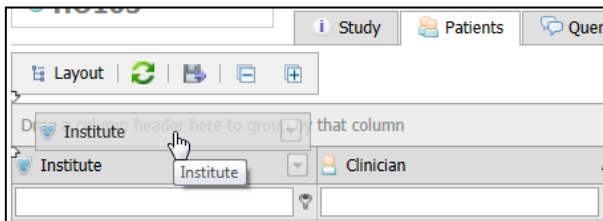
By selecting the Patients tab from the study homepage, the eCRF can be accessed.



The default study overview appears.

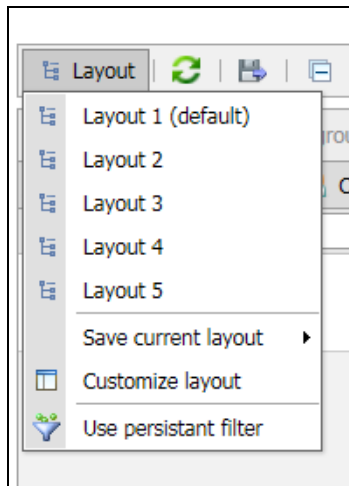
patient key	Institute	Clinician	Registration date	Last update	Dossier	#TF	#Sa	#L	#TQ-O
001	NL-Amsterdam-VUMC (VUMC)		02-Aug-2018 11:14:58	05-Oct-2018 10:54:35	open	10	8	0	0
002	NL-Amsterdam-VUMC (VUMC)		04-Oct-2018 13:51:59	05-Oct-2018 10:54:54	open	1	0	0	0

In this Patient Grid you can easily sort by any given column by dragging the selected column header(s) to the upper bar (reading 'Drag a column header here to group by column'). For instance, it could be convenient to sort by 'Institute' if you perform the PA review for multiple sites. Alternatively the little arrows on the right side of the column could be useful for sorting on specific items.

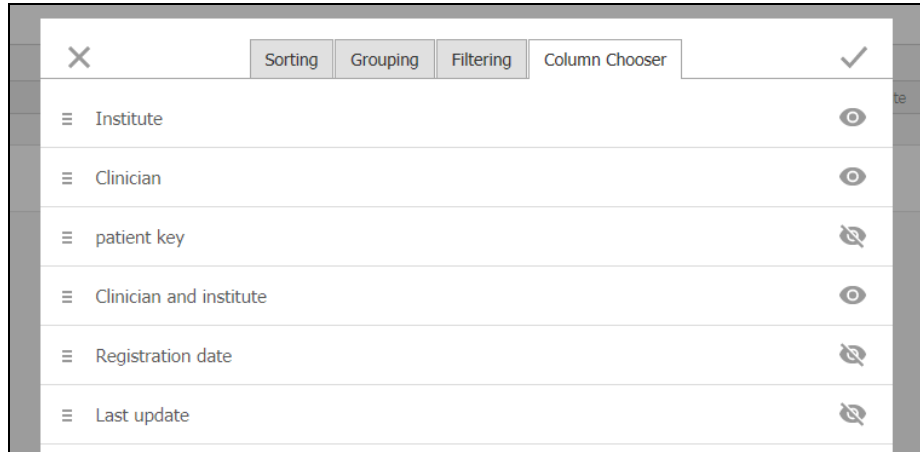


If you drag columns back to the column header row of the grid, you undo the sorting.

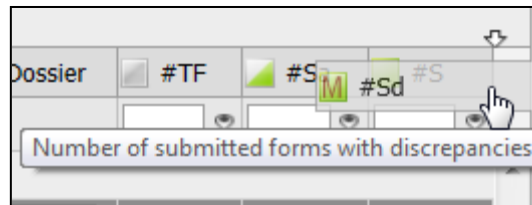
It is possible to add more columns to the Patient overview. To do so, select the option 'Layout' → 'Customize layout':



A Field Chooser is displayed with the tabs 'Sorting', 'Grouping', 'Filtering' and 'Column Chooser'.



By clicking/unclicking the preferred fields from the Column Chooser, followed by ✓ in the upper right corner the columns are added to your preferred settings.

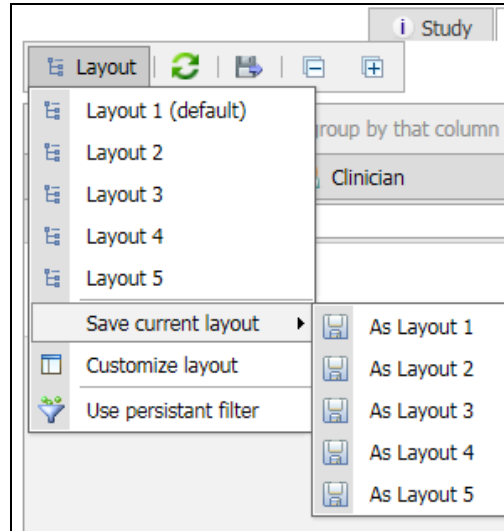


For example, the following fields could be useful:


#TF:	Total number of forms
#Sa:	Number of saved forms
#S:	Number of submitted forms(without discrepancies and without missing values)
#Sd:	Number of submitted forms with discrepancies
#Sm:	Number of submitted forms with missing values
#V:	Number of verified Forms
#L:	Total number of locked forms
#TQ-O:	Number of open queries on Patients and Forms
#TQ-R:	Number of non-closed queries on Patients and Forms


For a complete overview of all optional Fields, see appendix B

If you would like to save a certain layout (i.e. configuration of columns) in order to re-use it during subsequent sessions, click 'Layout' → 'Save current layout' → 'As layout X': If you choose for 'Layout1', the preferred layout will appear at the start of the next session



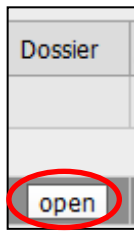
Patient summary

Clicking the icon  in a patient row will show the Patient Summary with the most important details (e.g. number of forms entered, number of open, replied and closed queries, whether or not SDV was executed and number of annotations). Annotations can be used by every role to provide comments or extra information.

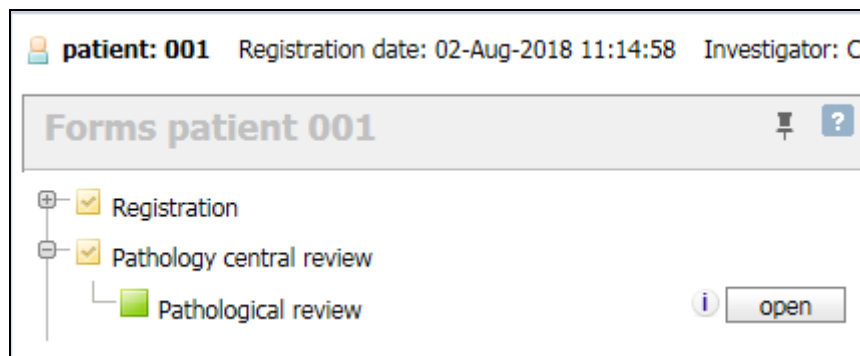
Patient summary			
Patient	004		
Reg.Date	08-Aug-2018 09:06:34		4
Clinician			
Institute	EMCCENTRUM - NL -Rotterdam-EMCCentrum -		
Total forms entered	3	Locked Forms	0
Saved Forms	0		
Submitted Forms	1		
- with discrepancies	0		
- with missing values	0		
Verified Forms	2		
Queries	On forms	On patient	Total
Open queries	0	0	0
Replied queries (not closed)	1	0	1
Closed queries	0	0	0
SDV	Marked for SDV	SDV -	SDV +
	0	0	0
Annotations	On forms	On patient	Total
	0	0	0
<i>Last summary update 09-Oct-2018 12:50:32</i>			

6. Patient dossier

To open a patient dossier, click the Open button in the row of the applicable patient.

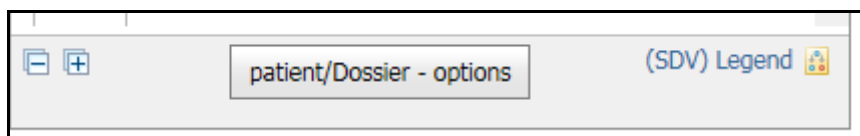


Once you have opened a patient dossier, a tree panel at the left side of the screen shows all the events that have been specified for the study (see example below). The data are organized around Events and associated Forms (the CRFs). The events contain all the applicable forms. To expand an event, click on the plus before the event; to expand all events, click on the plus sign at the bottom left of the Forms section. You will only be able to open and enter data into the form you have been authorized to; i.e. the Pathological Review form, in the event Pathological Central Review.




! **IMPORTANT:** It is strongly recommended to fill out the Forms in chronological order as depicted in the Tree panel. If filled out in a non-chronological order, unnecessary cross-form discrepancies might be triggered.



The (SDV) Legend link opens a pop-up screen that explains all statuses of completion (see Appendix C):






Please note the difference between Saved  and Submitted  statuses.

The icon  indicates that the form is submitted with at least one required item missing. Before submitting, all required items need to be filled out, or if missing a value discrepancy has to be resolved by providing a reason why the item is missing (NB: Saving is possible at all times).

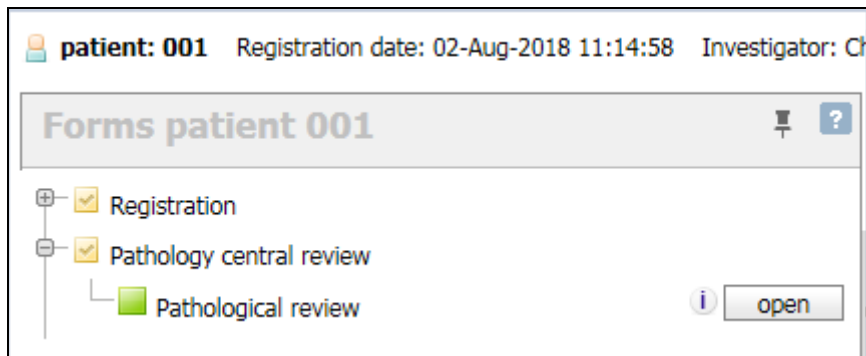
The icon  indicates that a submitted form contains at least one item with a (resolved) discrepancy.

If the pin at the top right corner of the Tree panel is pointed downwards , the Tree remains visible once opening a Form. Setting the pin in the horizontal position  by clicking on it, will hide the Tree panel once opening a Form. This allows for more space to display the middle and right panes.

Clicking on the icon  next to the Open button of a filled out Form opens a Form Summary. If the icon is red , there are open discrepancies / queries to be answered. If the icon is orange , this indicates that you have resolved discrepancies / queries that were not yet reviewed by the CDM.

7. Entering and editing data

To enter or edit data on a Form, click the Open button:




Depending on the position of the pin in the Tree panel, the screen will be divided in 2 or 3 sections. You can change the width of each section by moving the slide-bar to the left or to the right, or expand / collapse screens by clicking on the little arrows.

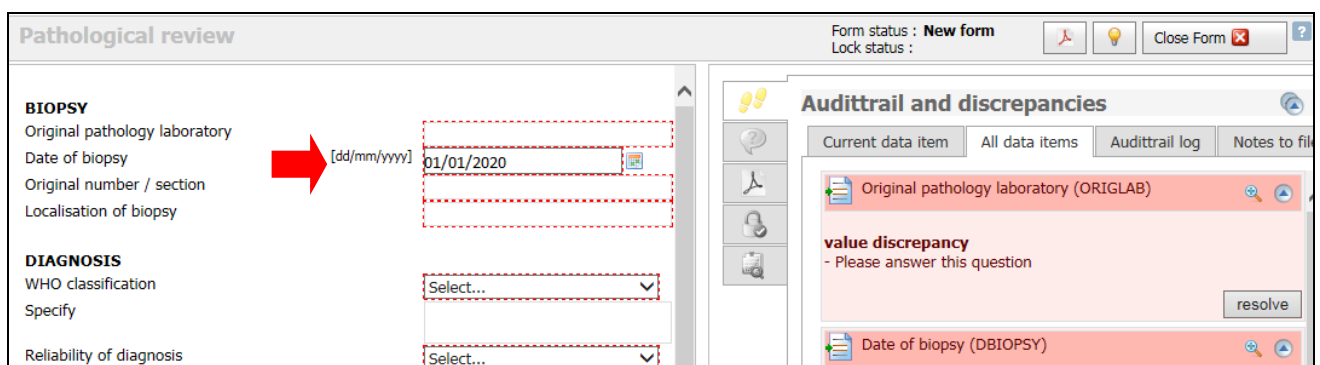


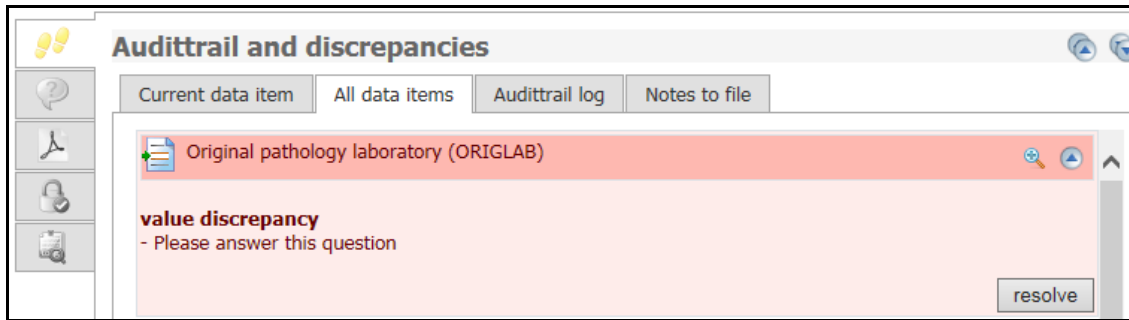
7.1 Conditional items

Some items are conditionally hidden and will only appear depending on answers to previous questions (e.g. if 'other, specify' is selected, a specification box will appear).


7.2 Discrepancies

Some items are marked with red dotted lines and an associated value discrepancy in the Audit trail and discrepancies menu  in the right panel. These include required items which cannot be left blank, and entered values that do not meet certain pre-set criteria or checks (e.g. a date in the future).





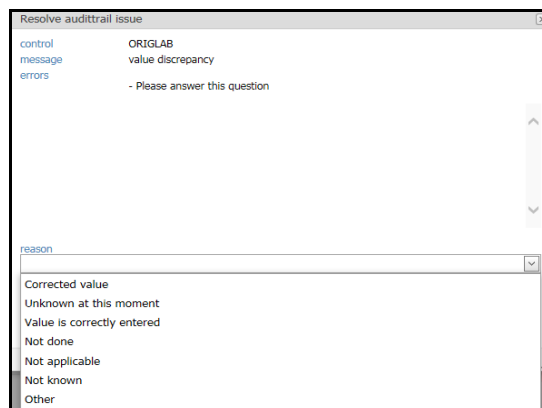
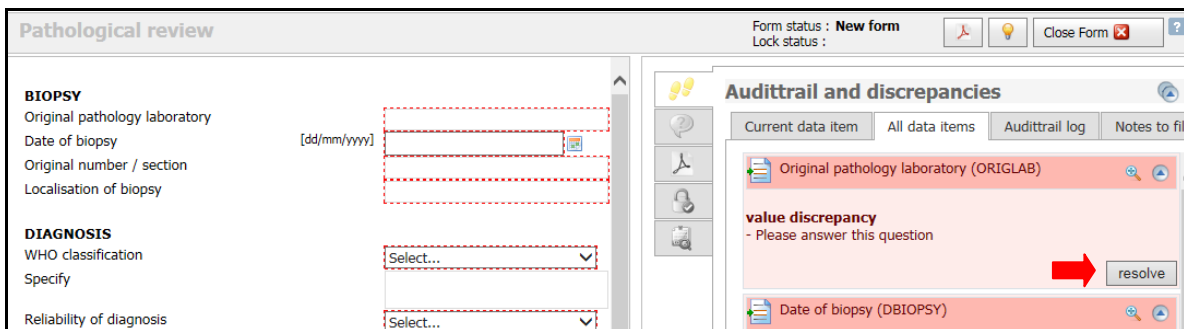
At the top of the Audit trail and discrepancies menu in the right panel you can select the tab 'Current data item' to see the value discrepancy of the item that is currently selected in the Form, or the tab 'All data items' to see discrepancies for all items of the Form.

Clicking the  icon marks the item to which the discrepancy applies with a blue border or as a blue filled.

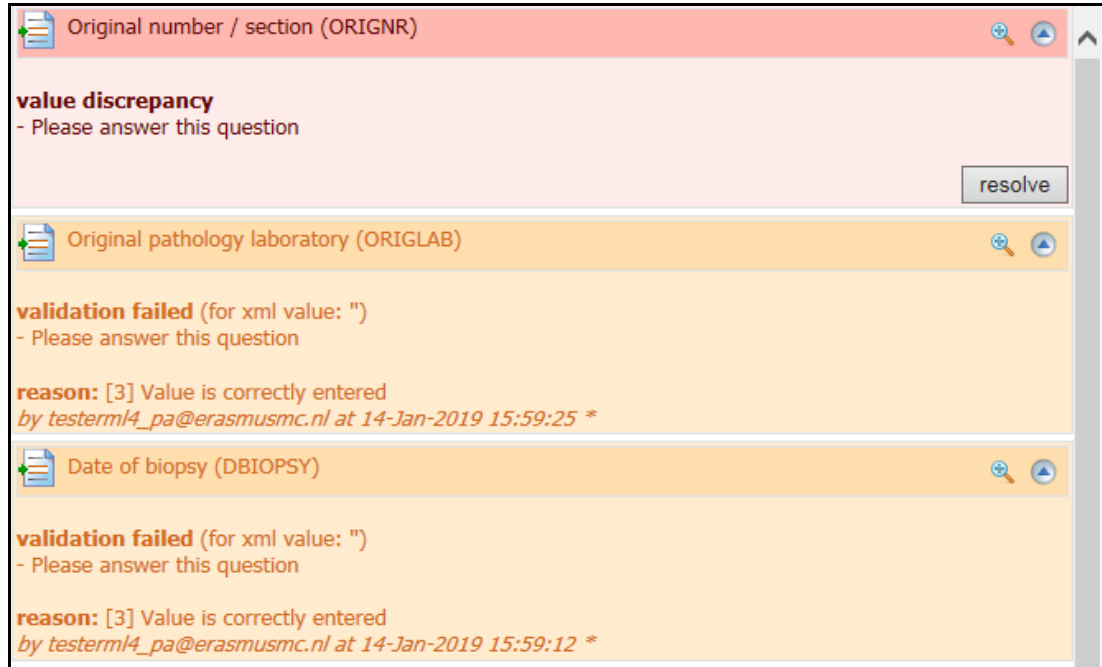
Always try to address the discrepancy by entering / correcting the respective value in the Form. After providing an answer that does not lead to any other discrepancies, the red dotted line and the discrepancy will disappear.

However, if a value is truly missing or does not meet the pre-set criteria / check, a reason should be provided to override the discrepancy. Click the 'resolve' button and select a default reason from the dropdown list, or choose 'other' (which should be further specified). The option 'Value correctly entered' is to be used when the entered value is correct even though out of range.

NB: Addressing a discrepancy via the Resolve button will lead to a query that needs to be reviewed by CDM and should therefore be avoided as much as possible.



Once you have answered a discrepancy the color changes to orange (i.e. reason is proposed). A discrepancy can either be closed by the CDM when the reason is accepted, or be reraised when the proposed reason is declined. Reraised discrepancies (colored red) should be re-addressed by Pathologist, until accepted by the CDM.



7.3 Saving and submitting

After entering all data, you can save the form by clicking the Save button.

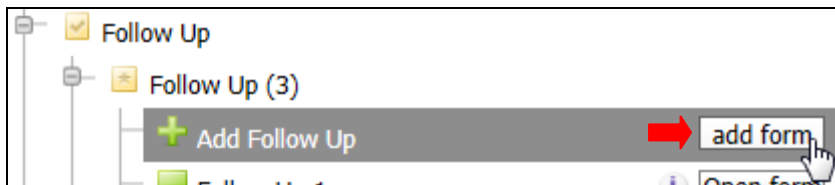


The Submit button will be enabled when all required items are entered and all discrepancies – if any – have been addressed. Only submit a Form if you think all data are correct and complete and no further data editing is expected.

NB: Eventually all Forms need to be submitted before data review by the CDM is possible. Moreover, cross-form checks only work once the applicable Forms are submitted.

7.4 Repeated Forms



Some Forms are repeating forms (e.g. Follow Up). Add a new form by clicking the Add form button in the Tree panel, and click OK to confirm.



A new form is added to the tree and will open. Add Forms when needed and enter data in chronological order.

7.5 Tips and Tricks

- Using the tab key to move to the next item is faster and more efficient than using the mouse.

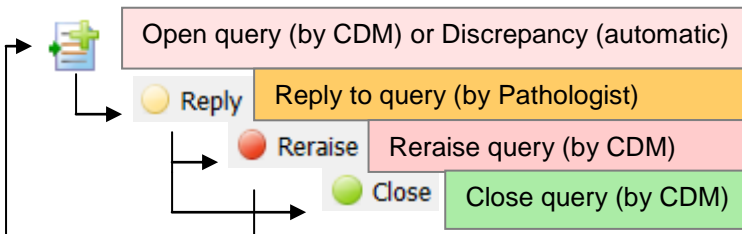
- With shift + tab you navigate to the previous item.
- The icon  indicates a dropdown list, from which you can select the desired option. You can also type the first letter of the applicable answer option (e.g. y for yes)
- Dates can be picked through the date picker  or entered manually. Be aware that when using the date picker and clicking the double arrows to the left or right (<< and >>) one jumps a year back and forth. When using the single arrow (< and >), one jumps a month back and forth respectively. When entered manually, it is not necessary to type separators (i.e. / or -). For example, if one enters 01012015 ALEA recognizes this as a date and transforms it into 01/01/2015. If the date is today, you can enter “t” and the date of today will be displayed.

NB: For instructions on how to fill out the eCRF, see the study specific CRF guidelines.


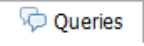
8. Query management

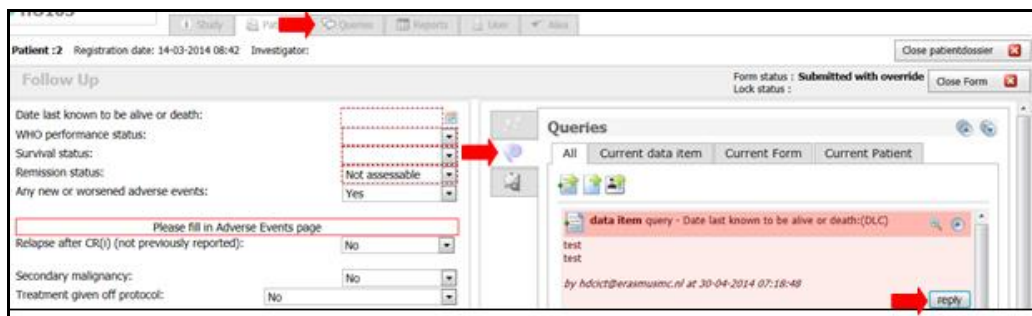
Most checks are raised automatically (discrepancies). In contrast, queries can be raised manually by CDM. Queries can relate to a specific data item, to a specific form or to a patient. All discrepancies and queries should be addressed by Pathologist. Once you replied, the CDM can take action.

A typically query flow is depicted below:







Please note that even though the status of the query remains “Replied”, the CDM can have reraised the query, so always look at the color of the query: red means that there is still an answer required.

You can either reply to queries in the Queries menu  of the right panel in the patient dossier, or through the main Queries tab 

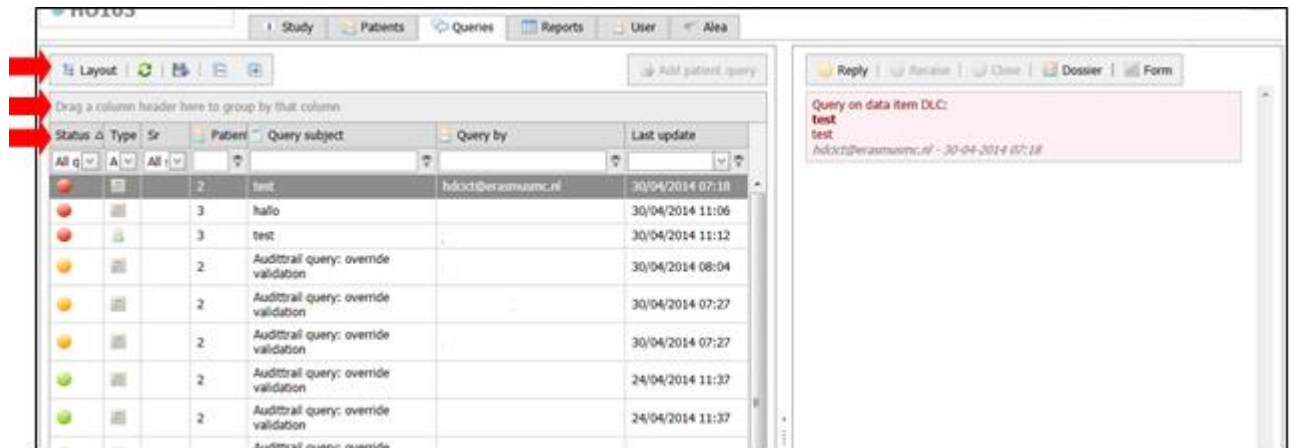


In the Query overview (after clicking the Query tab) you can sort by:

- status (all queries, open queries , replied queries , reraised queries , closed queries ,
- type (all type queries, data item query, form query, patient query),
- Sr (= sources) (all sources, manual queries, SDV queries, form discrepancies, form missing data).
- Patient (id),
- Patient

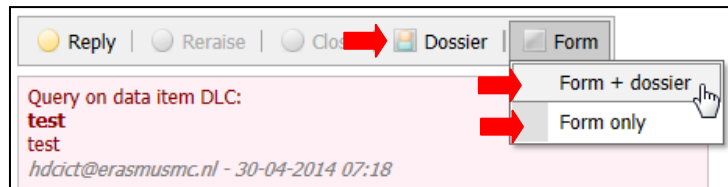
- Query by
- Last update

In the Query grid you can also easily customize your sorting by dragging the selected column header(s) to the upper bar (reading 'Drag a column header here to group by that column'), similar to what was described in chapter 4 regarding the Patient Overview. Settings can be saved via the Layout button → save current layout.



To view the CRF-item to which the query applies you can navigate to Dossier (to go to the patient dossier), Form+Dossier (to go directly to the specific form in the patient dossier), or Form only.

To view the CRF-item to which the query applies you can navigate to Dossier (to go to the patient dossier), Form+Dossier (to go directly to the specific form in the patient dossier), or Form only.



9. User

The tab User displays your User Profile, containing information about the role that has been assigned to you (e.g. Local Data Manager) and the settings that are in place. Via Application user settings you can reset the layouts that were previously created to the default versions.

study	study status	role	account status
HO132	OPEN	Local data manager *	Activated

10. Alea

The last tab contains information about ALEA. This section is not applicable to you.

11. Summary









Please adhere to the following flow for data management:

- Fill out the Forms in chronological order at all times, to prevent unnecessary discrepancies.
- Resolve discrepancies preferably by providing the correct data in the Form. Only if the correct data has already been entered, answer the discrepancy by clicking on the Resolve button.
- Submit the Forms as soon as possible (which enables CDM to check the data), but not before the data is complete and no further data editing is expected.
- Reply to queries (either in the patient dossier (right panel) or via the query tab). All red queries need to be addressed. (Orange queries need to be handled by CDM). In the end, all queries should be green = closed.
- Once a Form is checked by CDM and no open queries remain, the LI can sign off the Form, which will automatically lock the Form for further data-entry/editing.
- Once all Forms are signed off data management for that patient is done.

Appendix A: ALEA Account Request Form

For the latest version of the ALEA Account Request Form, please check the HOVON web site or contact the HOVON Data Center (hdc@erasmusmc.nl)

Appendix B: Field Chooser box options

Field	Description ¹
#A	Total number of data item annotations
#A-F	Total number of form level annotations
#A-P	Total number of patient level annotations
#FQ-C	Number of closed queries on Forms
#FQ-O	Number of open queries on Forms; Open initial, form level, queries
#FQ-R	Number of non-closed queries on Forms: Open form level queries with replies
 #L	Total number of locked forms
#PQ-C	Number of closed queries on Patient
#PQ-O	Number of open queries on Patient
#PQ-R	Number of non-closed queries on Patient
 #S	Number of submitted forms (without discrepancies and without missing values)
 #Sa	Number of saved forms
 #Sd	Number of submitted forms with discrepancies
 #Sm	Number of submitted forms with missing values
#TF	Total number of forms
#TQ-C	Combination of all closed patient- and form level queries
#TQ-O	Number of open queries on Patients and Forms; Combination of all open patient- and form level queries
#TQ-R	Number of non-closed queries on Patients and Forms; Combination of all non-closed patient- and form level queries
	Number of verified Forms
	Clinician and Institute code; Combination of institutes and all investigators per institute
	Study name: Could be useful when making an export of the patient overview.

¹ All numbers are displayed *per patient*

Appendix C: Statuses of Forms

