

# Extracorporeal Life Support Organization

## ELSO Data Registry Instructions

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### Additional Instructions for Center Administrators and Center Users

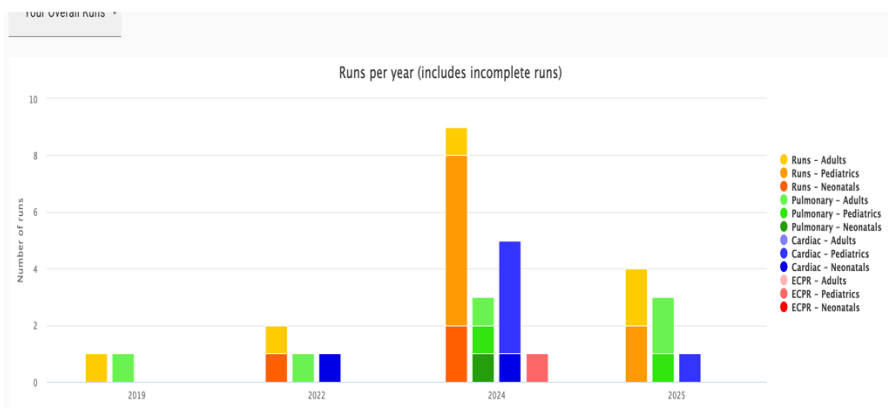
- HOW TO ADD CENTER USERS TO YOUR CENTER? .....20
  
- WHAT RESOURCES ARE AVAILABLE FOR DATA ENTRY USERS .....20

## I. Accessing the Registry

- You must first be assigned access data by your ELSO Center Administrator. Please refer to the Manage tab on [www.elseo.org](http://www.elseo.org) for further information and refer to the additional instructions for center administrators at the end of these instructions
- All Data Registry users must pass the Data Registry Exam first to enter registry data.
- Open [www.elseo.org](http://www.elseo.org) and sign in with your username and password. This must be assigned to you by your ELSO Center Administrator.
- Select the Registry Tab, and then Data Entry. Enter your username and password.
- You must have Multi-Factor Authentication (MFA) set up to be able to access the ELSO registry. You must enter your ELSO MFA code after entering your username and password.
- The Center specific home page will load.



The Center name will appear in the upper right-hand corner. Select the drop down to select the correct center to enter data.



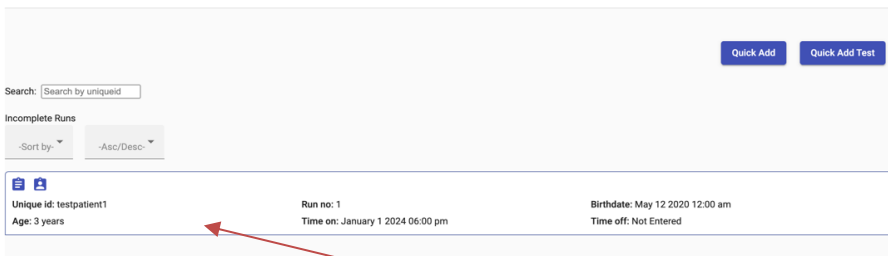
Click on your user name in the right-hand corner to change settings, update your center equipment shortcut list or to log out.

Select the Registry Home tab to see any entered registry patients that have not been submitted.

Select the ECLS ALL Runs tab to find every entered registry patients.

To add a new patient select Add New Patient

Additional Tabs include Reports, Exports and XML Import. Select one of the tabs specific to the task to perform.



The bottom of the home page lists all incomplete runs. Click on an icon to update the run or patient information.

## II. Starting a New Patient Form: First Hospitalization

Note: Please refer to the ELSO Registry Data Definitions for specific details for the data fields to be entered.

- After logging in, select “Add New Patient” or “Quick Add” from the home page.
- The Unique ID is specific to your center.
- The following screen will load. All ‘Red’ data must be completed to save entry.

The screenshot shows the 'Add Patient' form. The 'Patient information' section includes fields for Unique ID (required), Birthdate (required), Sex (required), and Race (Unknown, Asian, Black, Hispanic). The 'First hospitalization information' section includes fields for Admission Date (required), Discharge date, Discharged alive, Death date, Discharge location, and Patient transported to your center?.

Enter all required data.

Enter the hospitalization information.

Once you complete this section, and click ‘Save’, it will save the identifier and will be listed on your home page as an incomplete record.

‘Cancel’ will return to the home page.

**Remember the Unique ID follows the patient for life.**

If the patient had previous admissions on ECMO follow these instructions:

The screenshot shows the 'ECLS ALL Runs' page. A search bar is highlighted with a red circle and an arrow pointing to the 'Search by uniqueid' text. Below the search bar is a table of runs with columns for Unique id, Age, Submitted, Run no., Time on, Time off, Birthdate, and Time off. The table contains two rows of data.

Unique id	Age	Submitted	Run no.	Time on	Time off	Birthdate	Time off
Test2026TW	37 years	No	1	3/8/2026 11:13 am		1/1/1989 12:00 am	Not Entered
Test2026HR	26 years	No	2	3/7/2026 04:32 pm		1/1/2000 12:00 am	Not Entered

Below the table is a 'Hospitalizations' section with a table of runs. The table has columns for Run No, Time On, Time Off, Support Type, and Days ECMO. The table contains one row of data.

Run No	Time On	Time Off	Support Type	Days ECMO
1	3/8/2026 11:13 am		Cardiac	

Click ‘ECLS ALL Runs’ on the home page

Enter the patient’s Unique ID in the search

Click the patient icon

Click ‘Add new hospitalization’

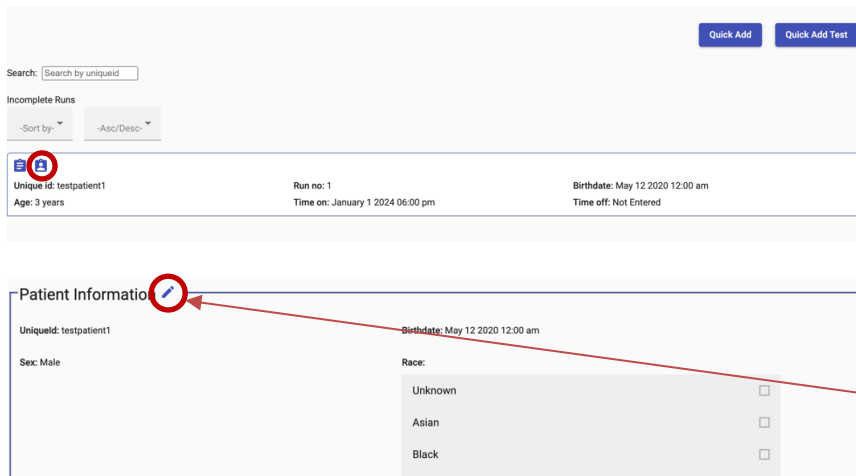
Enter the data for the new hospitalization

Click ‘Save’

### III. Frequently asked questions

#### How do I find my newly added patient to enter data?

- On the home page, scroll to the bottom. All incomplete runs are listed.
- Search by unique ID, or scroll to the desired patient record.

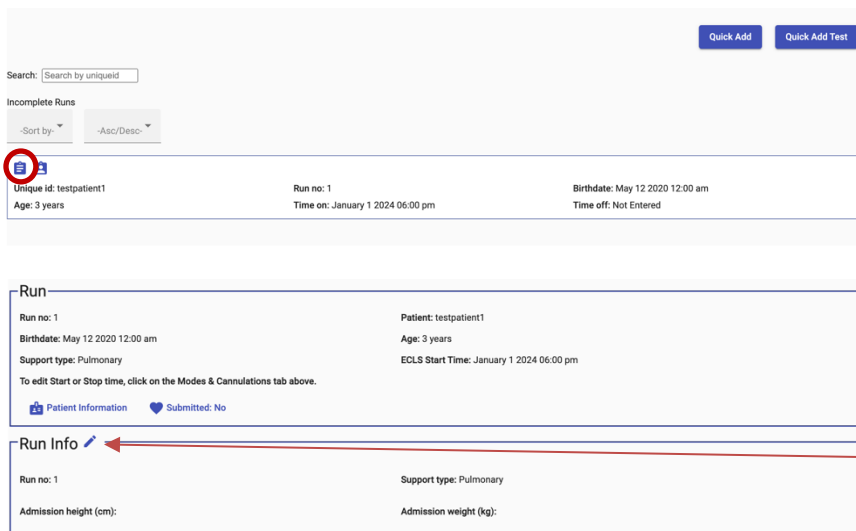


Select the patient icon to update the information for the patient.

This screen will load. Select the edit icon to change or enter new information.

#### How do I edit the run data? How do I edit a submitted patient record?

- If the patient has not been submitted, scroll to the bottom of the home page. All incomplete runs are listed.
- If the patient has been submitted, on the top blue bar select the “ECLS All Runs” tab.
- Search by unique ID, or scroll to the desired patient record.



Select the run icon to update the information for the run.

This will 'unlock' the record for any edits.

This screen will load. Select the edit icon to change or enter new information.

Scroll down the page to view the run.

**Important: Resubmit any previously submitted records after editing.**

## How do I enter a second or additional run?

- The unique ID is used for the **life of the patient**. It can be the same hospitalization or a new hospitalization
- If it is in the same hospitalization, you would add a new run for that hospitalization.
- If it is a new hospitalization, you would add a hospitalization and start a run for the new hospitalization. Additional runs can be added for each hospitalization.
- Please see the data definitions to determine if the requirement is met for an additional run.
- If the patient has not been submitted, scroll to the bottom of the home page. All incomplete runs are listed.
- If the patient has been submitted, on the top blue bar select the “ECLS All Runs” tab.
- Search by unique ID, or scroll to the desired patient record.

The screenshot shows the 'Incomplete Runs' section with a search bar and sorting options. Below are two patient records. The first record has a patient icon circled in red. The second record has a patient icon circled in red. Below this is the 'Hospitalizations' section for a patient, showing a table of runs. The 'Add new hospitalization' button is circled in red, and the 'Add new run' button is also circled in red. Red arrows point from the circled icons to the text instructions on the right.

Select the patient icon.

Scroll to the bottom:

For the same hospitalization:

- Click “Add new run” to add an additional run for the same patient
- Multiple runs (as added) will be listed, select the appropriate run to edit
- Click the run icon to edit

For an additional run in a new hospitalization:


- Click “Add new hospitalization” for the same patient
- Start entering the run for the new hospitalization.
- Additional runs may be added to each new hospitalization by clicking the patient icon in the record list and then select the correct hospitalization and “Add new run”

## How do I find the data I want to edit or enter?

- Once the patient record is selected and the run icon has been clicked, the upper blue bar has all individual tabs that may be selected to move around the registry form.

The screenshot shows the ELSO Data Registry interface. At the top, a blue navigation bar contains several tabs: 'Run Info', 'Pre ECLS Assessment', 'Pre ECLS Support', 'ECLS Assessment', 'Modes', 'Cannulations', 'Equipment', 'Diagnoses', 'Procedures', 'Complications', 'Infections', 'Outcome', 'Addenda', and 'Submission'. The 'Run Info' tab is circled in red. Below the navigation bar, there are two main sections. The top section is titled 'Run' and contains patient information: 'Run no: 1', 'Birthdate: 1/1/2000 12:00 am', 'Support type: Cardiac', 'ECLS Stop Time: 2/17/2026 12:10 pm', 'Patient: Test2026HR', 'Age: 26 years', 'ECLS Start Time: 2/4/2026 12:00 pm', and a note: 'To edit Start or Stop time, click on the Modes & Cannulations tab above.' Below this section is a 'Run Info' tab, which is also circled in red. A red arrow points from the 'Run Info' tab to the 'Run' section. The 'Run Info' section contains: 'Run no: 1', 'Support type: Cardiac', 'Admission height (cm):', 'Admission weight (kg):', 'Intubation: Yes date/time known', 'Intubation date: 2/3/2026 12:13 pm', 'Hospital Admit Date: 2/4/2026 12:09 pm', 'Pre-ECLS Cardiac Arrest: Yes', 'Bridge to Transplant:', and 'Trauma:'.

Select each tab on the blue bar to enter data.

Click on the edit icon to enter or edit data. 

Click save on each tab after data is entered.

## My ECLS patient was transported in on ECMO – What do I do?

- The transport is entered under the corresponding hospitalization.
- When adding a new patient you would enter the transport under that hospitalization
- **NOTE: Admission times are dependent on type of transport, refer to the data definitions for the specific definition that corresponds to the situation**
- When a patient is transported in on ECMO do not enter any data on the Pre-ECLS tab.

First hospitalization information

Admission Date:

Discharge date:

Discharged alive:

**This field is required!**

Death date:

Discharge location:

Patient transported to your center?:

Because this is a transfer, the ECLS Start time should be entered as the time your center assumed care for this patient

Transfer:  From an ELSO Center  From a non ELSO Center

Cannulated with Mobile ECMO

Search center:

Discharge location:

Patient transported to your center?:

Because this is a transfer, the ECLS Start time should be entered as the time your center assumed care for this patient

Transfer:  From an ELSO Center  From a non ELSO Center

Cannulated with Mobile ECMO

Non ELSO center:

**This field is required!**

Hospitalizations

Hospitalization (1)

Hospital Admit Date: 3/8/2026 11:13 am

Runs

Run No	Time On	Time Off	Support Type	Days ECMO
1	3/8/2026 11:13 am		Cardiac	

Items per page:  1 - 1 of 1

Click 'Add new patient'

Enter all patient demographics.

Enter Hospitalization information.

Enter Admission time:

- If the patient arrived to your center already on ECMO, admission time is the arrival time at your center, time on is the same as admission time
- If your team went to pick up an already cannulated patient, admission time and time on is the time your team assumed care
- If your team went to the outside hospital and cannulated, the admission time is the time your team assumed care, time on is time cannulated.

From the drop down menu select 'Transported on ECMO'.

- If transported from an ELSO center Search to enter the center name. You may also enter the center number.
- If transported from a non ELSO Center, enter the name of the hospital here.

# My ECLS patient was transported out for a procedure and then transported back in on ECMO – What do I do?

- The transport is entered under the corresponding hospitalization.
- Click the 'Run Info' tab from the blue bar.

Search:

Incomplete Runs

-Sort by:  -Asc/Desc:

Unique id: 0012024001 Age: 44 years	Run no: 1 Time on: January 8 2024 05:00 pm	Birthdate: April 20 1979 12:00 am Time off: January 10 2024 08:00 am
Unique id: testpatient1 Age: 3 years	Run no: 1 Time on: January 1 2024 06:00 pm	Birthdate: May 12 2020 12:00 am Time off: Not Entered

Registry Home ECLS ALL Runs Reports Data Export Add New Patient XML Import

Run Info Pre ECLS Support ECLS Assessment Modes Calculations Equipment Diagnosis Procedures Complications Infections Outcome Alerts Submission

Run

Run no: 1 Patient: Test2026TW Birthdate: 1/1/1989 12:00 am  
 Age: 37 years Support type: Cardiac ECLS Start Time: 3/8/2026 11:13 am  
 ECLS Stop Time: 3/8/2026 05:00 pm To edit Start or Stop time, click on the Modes & Calculations tab above.  
 Patient Information Submitted: No

Run Info

Run no: 1 Support type: Cardiac Admission height (cm):  
 Admission weight (kg): Intubation: Intubation date: Not Entered  
 Hospital Admit Date: Not Entered Pre-ECLS Center: Bridge to Transplant:  
 Trauma: This patient was transferred OUT of my Center On ECMO and transferred back IN to my Center On ECMO:  
 Yes  No

Next

This patient was transferred OUT of my Center On ECMO and transferred back IN to my Center On ECMO:  
 Yes  No  
 Add new transfer

Transfer out and back

Start Time: 3/8/2026 11:45 am

End Time: 3/8/2026 08:46 pm


Transfer:  To an ELSO center  To a non ELSO center

Search center: University of Michigan (1)

Save Cancel

Transferred to ELSO Center: University of Michigan (1)  
 Start Time: 3/8/2026 11:45 am End Time: 3/8/2026 08:46 pm


Select the patient record.

Click the run icon to edit 

Select the patient was transported out of the center and transferred back in.

Click 'Add new transfer'.

Enter transfer information.

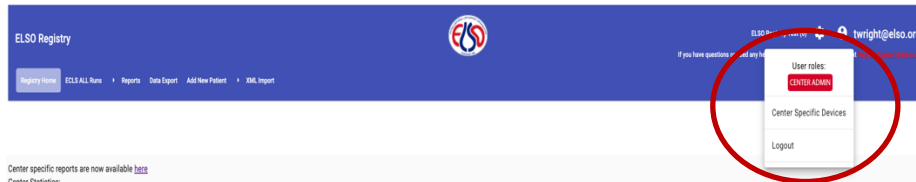
Transfer information will be populated at the bottom of the Run Info tab, click the edit icon to edit 



I cannot find my center specific cannula, component, or other device that was used – Where do I find the list?

How do I add a new disposable component to my center list?

How do I delete an obsolete piece of equipment?

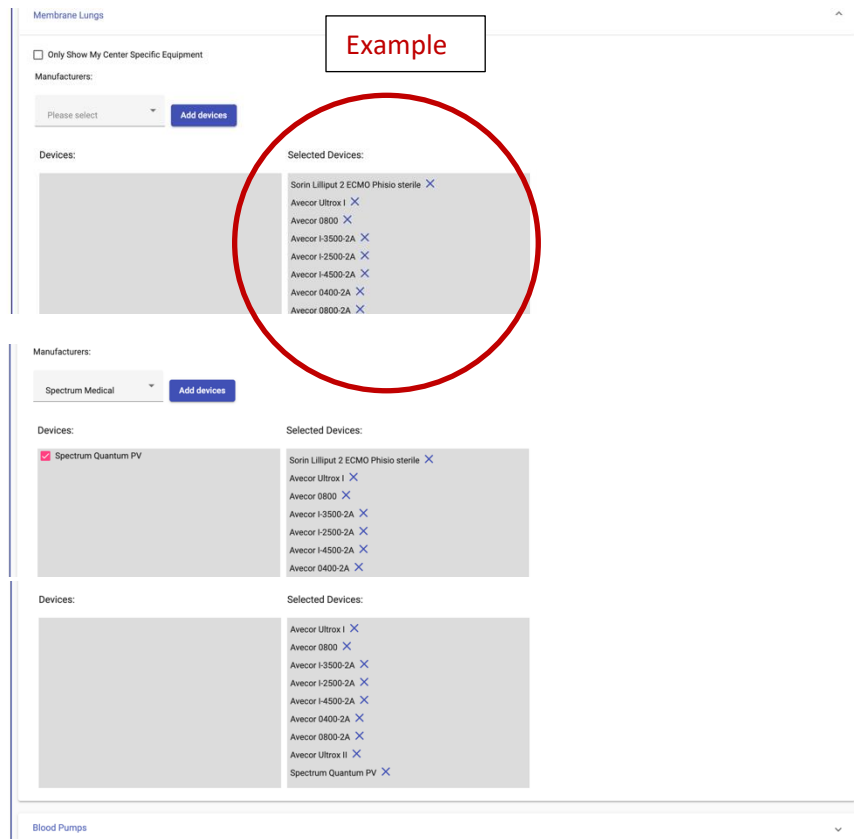


Select your username on the blue bar.

Select Center Specific Devices



Select the category of devices that you wish to add or delete a device.



Your center specific devices will be listed here.

Add the manufacturer for the device. This will populate the choices.

Select the specific device to add to your list by clicking the box next to it. Then select 'add device'.

It will now be listed under your devices.

You may also delete a device by clicking on 'x'.

If your center specific device is not listed contact [registrysupport@elso.org](mailto:registrysupport@elso.org)

## How do I change the Mode of ECMO?

- Select the record to enter the new mode.
- Select the Modes tab from blue bar.
- Initial mode information will present.

Initial mode

Initial Mode Information

Start Time: January 1 2024 06:00 pm

End Time: January 4 2024 12:00 am

Note: If this Run only has one mode, the Start time will be the time on and the Stop Time will be the Time Off ECLS. If this run has multiple modes, the initial mode start time is the Time On and the final mode Stop Time is the Time Off ECLS.

Mode

ECLS Mode: VA

Conversion 1 Information

Start Time: January 4 2024 12:01 am

End Time: Date time

Note: If this Run only has one mode, the Start time will be the time on and the Stop Time will be the Time Off ECLS. If this run has multiple modes, the initial mode start time is the Time On and the final mode Stop Time is the Time Off ECLS.

Mode


ECLS Mode: VVECCO2R

Add new conversion

In order to add conversion, set EndTime for previous mode and fix form errors

This run had 2 concurrent modes

Back Next Cancel Save

Click the edit icon to change the entered data. 

Initial mode previously entered will present.

Enter the end time of the initial mode.

Enter the conversion time for the second mode one minute later.


Select the second mode.

To add a third mode change (add new conversion), enter the end time for the second mode and then the start time for the third mode.

## How do I enter two concurrent modes of ECMO?

- This configuration refers to the use of two separate ECMO circuits and cannulation strategies.
- Select the record to enter the concurrent mode.
- First, must enter the concurrent membrane lung and blood pump in the equipment tab from the blue bar.
- Next, select the Modes tab from the blue bar.

The screenshot displays the 'Initial Mode Information' section with 'Start Time' set to January 1, 2024, 06:00 pm and 'End Time' set to January 4, 2024, 12:00 am. Below this is a 'Mode' section with 'ECLS Mode' set to 'VA'. A red circle highlights a button labeled 'This run had 2 concurrent modes' in the conversion section. A red arrow points from this button to the right-hand text box.

Click the edit icon to change the entered data. 

Select the concurrent mode button

The screen will load allowing the 'second concurrent mode'.

Enter the time for the concurrent mode.

Enter the initial mode of the second concurrent mode.

This also allows you to change the mode of the concurrent mode.

## How do I change the cannulation strategies for ECMO?

### How do I change/replace or remove a cannula?

- Changing a mode usually requires a cannulation strategy or a cannula change.
- Select the record to enter the cannula change.
- Select the Cannulations tab from the blue bar.

The screenshot shows a table of cannulation records. The 'Add New Cannulation' button is circled in red. The table contains two rows of data:

Percutaneous:	Pre-existing:	Cannula:
No	Yes	DLP 10 Fr (blue hub)
Site: Aorta	Start Time: January 1 2024 06:00 pm	End Time: Not Entered
Replacement Reason: Hemolysis		

Purpose:	Start Time:	End Time:
Both drainage and return	January 1 2024 06:00 pm	January 25 2024 08:58 am
Distal perfusion catheter(DPC)	January 25 2024 08:58 am	February 5 2024 03:00 am

The screenshot shows a table of cannulation records. The 'Replace this cannula' button is circled in red. The table contains one row of data:

Percutaneous:	Pre-existing:	Cannula:
No	No	Arrow Sheath 9 Fr
Site: Left atrium	Start Time: January 4 2024 12:00 am	End Time: January 4 2024 12:00 am

Purpose:	Start Time:	End Time:
Return	January 4 2024 12:00 am	January 4 2024 12:00 am

The screenshot shows the 'Cannulation' form with the following fields:

- Percutaneous: No
- Preexisting: No
- Manufacturer: Medtronic Cardiopulmonary/DLP
- Cannula: Biomedicus NextGen Arterial 8 Fr
- Center Specific Device: Please select
- Site: Aorta

The screenshot shows the 'Replacement Reason' dropdown menu with the following options:

- Please select
- Thrombosis / coagulopathy
- Hemolysis
- Cannula(s) removed for attempted ECLS separation
- Change in cannulation strategy
- Other

The screenshot shows the 'Cannulation' form with the following fields:

- Start Time: January 1 2024 06:00 pm
- End Time: Date time
- Initial Purpose: Return
- Change cannulation purpose button circled in red.

To Edit/Add Initial Cannulas:

All cannulations (cannulas) will be listed.

Click the edit icon to change the entered data.

Select 'Add New Cannulation'

To Replace Cannulas:

All cannulations (cannulas) will be listed.

Click the edit icon to change the entered data.

Select 'Replace this Cannula' to note a removal of a cannula that was replaced.

The replacement reason is required

Enter the end time of the removed cannula.

You may also select 'Change Cannulation purpose' for a cannula remaining, but is reconfigured.

Select 'Add New' to add a new cannula.

## How do I change a disposable circuit component or console?

- Please see data definitions for indications to change components.
- Specific component changes require a complication to be entered for the same date/time.
- Select the record to enter the component or console change.
- Select the Equipment tab from the blue bar.
- Disposable component change or console change is entered.

Equipment

Membrane Lung

Device

Initial device  
 Device: Nautilus ECMO Oxygenator Balance Biosurface      Equipment Start Time: 1/1/2026 03:52 pm      Equipment End Time: 1/6/2026 05:57 pm

Replacement Reason: Structural integrity

Complication: Mechanical: Oxygenator failure  
 Time: 1/6/2026 05:37 pm      Estimated: No

Replacement devices:  
 Device: Hemolung      Equipment Start Time: 1/6/2026 05:38 pm      Equipment End Time: Not Entered

**Edit membrane lungs**

Blood Pump

Manufacturer: Abiomed      Device: Abiomed Breethe      Center Specific Device: Abiomed Breethe

**This run had a blood pump change or concurrent device**

Consoles

Manufacturer: Abbott      Device: Centrimag

**This run had a console change**

Example

Registry Home    ECLS ALL Runs    Reports    Data Export    Add New Patient    XML Import

Run Info    PHL ECLS Support    ECLS Assessment    Modes    Circulations    **Equipment**    Diagnosis    Procedures    Complications    Infections    Outcome    Alerts    Submission

Scan device    Delete device

Manufacturer: Eurosets      Device: ECMO Adult 14 days / AMG PMP Adult      Center Specific Device: Please select

Start Time: 3/8/2026 11:13 am      End Time: 3/8/2026 04:00 pm

Device Replacement Reason: Please select

Replacement Devices:

Scan device    Delete device


Manufacturer: Eurosets      Device: ECMO Adult 14 days / AMG PMP Adult

Start Time: 3/8/2026 04:01 pm      End Time: Date time

**This Run had 2 concurrent Membrane Lungs**

Please select

- Structural integrity
- Decreased efficiency of gas exchange
- Acute obstruction to blood flow
- Increasing resistance to blood flow
- Coagulopathy with membrane lung as known source

Click the edit icon to change the entered data. 

All devices entered will be listed.

Select 'Edit Membrane Lung' (or other device) to replace or delete.

Enter the end time of the replaced lung.


Select 'Replace this Membrane Lung'.

The replacement reason is required.

Enter new component or device information, all data is required.

## How do I add a concurrent circuit component?

- Select the record to enter the component change.
- Select the Equipment tab from the blue bar.

Click the edit icon to change the entered data. 

All devices entered will be listed.

Scroll to the bottom and select 'This Run had 2 concurrent Membrane Lungs' (or other device).

Enter all data as required.

## How do I add diagnoses? What if the diagnosis is not listed?

- Select the record to enter the diagnosis.
- Select the Diagnoses tab from the blue bar.

Select 'Add new diagnosis'.

A pop up will allow entering of the ICD-10 code as known or typing the diagnosis will auto populate the code.

Select one diagnosis as the primary one for ECLS.

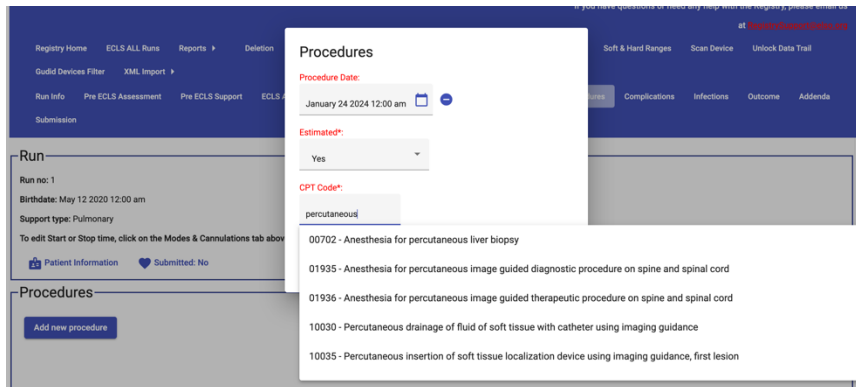
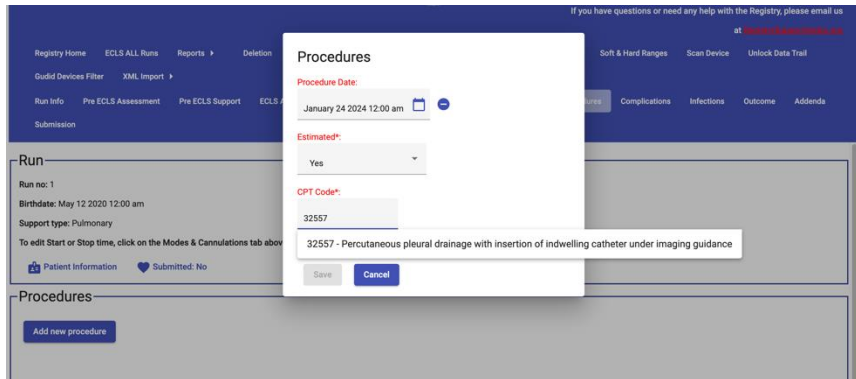
Continue to add diagnoses as required.

All diagnoses will be listed and may be edited or deleted.

Any ICD-10 not available, please email [registrysupport@elso.org](mailto:registrysupport@elso.org)

## How do I add procedures? What if the procedure is not listed?

- Select the record to enter the procedures.
- Select the Procedures tab from the blue bar.
- Enter procedures that are pertinent to the ECLS run. Standard ICU procedures such as arterial line placement or chest radiographs are not necessary to enter.



Select 'Add new procedure'.

A pop up will allow entering of the CPT code as known or typing the procedure will auto populate the code.

Enter the procedure date/time and whether it is estimated or not.

Continue to add procedures as required.

All procedures will be listed and may be edited or deleted.

Using an online search engine may assist in finding CPT codes.

## How do I add a complication? How do I edit a complication?

- Select the record to enter the complication.
- Select the Complications tab from the blue bar.
- Any mechanical complication that requires a replacement disposable device must have that device replaced under Equipment.
- Refer to the ELSO Registry Data Definitions for specific data entry rules for each complication to include what is considered a complication, frequency, and time ranges entered.

Complications

Does this run have any complications?  Yes  No

[Add new complication](#)

	Time: January 2 2024 12:00 am	Estimated: Yes	Complication: 711 - Infectious: WBC < 1,500
	Time: January 1 2024 12:00 am	Estimated: No	Complication: 103 - Mechanical: Other tubing rupture

Items per page: 5 1 - 2 of 2 < >

Complication

Complication Time:  Estimated:

Date time

This field is required!

Complication code is required

Mechanical Complication Codes:

Hemorrhagic Complication Codes:

Neurologic Complication Codes:

Mechanical Complication Codes:

- Mechanical: Oxygenator failure
- Mechanical: Raceway rupture
- Mechanical: Other tubing rupture
- Mechanical: Pump Failure
- Mechanical: Temperature Regulation Device Malfunction
- Mechanical: Clots: hemofilter
- Mechanical: Air in circuit
- Mechanical: Cannula problems
- Mechanical: Circuit change

Complications

Does this run have any complications?  Yes  No

[Add new complication](#)

	Time: January 17 2024 04:04 am	Estimated: No	Complication: 101 - Mechanical: Oxygenator failure
	Time: January 2 2024 12:00 am	Estimated: Yes	Complication: 711 - Infectious: WBC < 1,500
	Time: January 1 2024 12:00 am	Estimated: No	Complication: 103 - Mechanical: Other tubing rupture

Answer does this run have any complications?

Select 'Add new complication'.

Enter the complication date/time and click the whether it is estimated.

Categories of complications will be listed. Select the category drop down

Select the specific complication.

Continue to add new complications as required for the run.

All entered complications will be listed. These may be edited or deleted.




## How do I enter the outcome for the patient run?

- Select the record to enter the outcome.
- Select the Outcome tab from the blue bar.


## My patient was discharged to hospice, how do I enter that?

- Select the record to be edited from the list of ECMO runs on the home page.
- To enter discharge information click on the 'Patient Information' icon.
- Discharge information will be entered under the corresponding hospitalization

Select the edit icon  to enter or change data.

Select the reason for discontinuation from ECLS.

Return to the 'Hospitalizations' section to complete the discharge information for the hospitalization that corresponds to the the ECMO run (See the lower example).

Select the edit icon  to enter or change data for the corresponding hospitalization.

This is where all discharge information is entered.

Select 'Transfer to hospice'.

Enter the date of discharge and follow with the eventual date of death.

## How do I add an Addenda? How do I edit an Addenda?

- Please see the data definitions for each individual addenda.
- Select the record to enter the addenda.
- Select the Addenda tab from the blue bar.

Run Info Pre ECLS Support ECLS Assessment Modes Calculations Equipment Diagnoses Procedures Complications Infections Outcome Addenda Submission

Run

Run no: 1 Patient: Test0206TW Birthdate: 1/1/1989 12:00 am  
Age: 37 years Support type: Cardiac ECLS Start Time: 3/8/2026 11:13 am  
ECLS Stop Time: 3/8/2026 05:00 pm To edit Start or Stop time, click on the Modes & Calculations tab above.

Patient Information Submitted: No

Addenda

+ Add Cardiac + Add ECPR + Add TRAUMA

Back Next

Select 'Add' for the specific addenda.

All addenda previously entered will be listed. These may be edited by selecting the view icon or deleted.

## How do I validate the data? How do I submit the record?

- Select the record to validate and submit.
- Select the Submission tab from the blue bar.

Submission

Electronic Signature:  
Electronic Signature

Validate data Submit and lock

Next Cancel Save

Enter the electronic signature first.

Select 'Validate data'. Data must be validated before submission.

Any errors will populate. All errors must be addressed before submission is allowed.

Once errors are cleared, select 'Submit and lock'.

Submission

Electronic Signature:  
Peter Rycus

Validate data Submit and lock

Errors:  
Run Info  
MIS-C is required  
Complications  
Complication 103 time cannot be more than 4 hours prior to ECLS time on 1/1/2024 17:00.  
Because this run has an oxygenator failure complication, you must include the new membrane lung on the equipment tab if ECMO support was continued or the death date/time must be within 4 hours of the complication or the time off must be within 4 hours of the complication.  
Outcome  
Discharge date must have some value.  
Death date is required when discharged alive is set to no.

## Special Situations: Diagnoses - Neonatal Respiratory

- Refer to the data definitions on page 108 for specific neonatal respiratory diagnoses.
- Refer to the chart below for the specific steps for entering neonatal respiratory diagnoses
- Choose primary diagnoses from list below and then you will be prompted to select your subcategory or causative etiology
- Some sub-categories may require additional branching characterizations

List additional diagnoses pertinent to the ECLS admission

- If the patient requires ECLS for an etiology not included in the list below, then select “Other” and list the ICD-10 code.

<b>Step 1: Pick a primary Diagnosis</b>	<b>Step 2: Select Subcategory or Causative Etiology</b>	<b>Step 3: Additional Diagnoses</b>
Congenital Diaphragmatic Hernia (CDH) Q79.0 Meconium Aspiration Syndrome (MAS) P24.01 Pneumonia (PNA)P23 Sepsis (SEP) P36.9 Persistent Pulmonary Hypertension (not due to categories above) (PHTN) P29.3 Pulmonary Hypoplasia (non CDH) (PHYP) Q33.6 Hypoxic Respiratory Failure (not due to categories above) (HRF) P28.5 Airway anomaly, injury, or surgery (AAN) Q32.1 Other (OTH)	Follow the branching pop ups and select one diagnosis from the category (refer to the ELSO Data Entry Definitions)	Enter any additional diagnoses

## How to enter center users to your center?

- Only center administrators can add center users
- Go to <http://elso.org/>
- Click the Manage tab
- Click the Center Website Use tab
- You will now be able to assign role for the new user: “Center User – Enter Registry Data”
- Complete the remainder of information for the new user to complete the request
- The new center user will receive an email with login information
- The new center user will need to complete the data entry exam prior to entering any data

## What resources are available for data entry?

All resources can be found by clicking here: [ELSO Resources](#)

The resources include:

- Definitions
- Forms
- Data Entry Instructions
- Registry Update Calendar
- Registry Change Document