

This guide is a living document and subject to change. Always *download the most current copy* each time you need information about Hemodialysis documentation.

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PRE-TREATMENT

INTRA-TREATMENT

POST-TREATMENT

RESOURCES

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Last updated 5/30/2019



EBCD

Evidence-Based Clinical Documentation

Hemodialysis Documentation

Nursing and ED Module documentation
MEDITECH 5.6.7

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.

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Overview

The Hemodialysis (HD) screens aid in standardizing documentation across our hospitals. While facility processes differ and the flow of these screens may vary slightly from your workflow, the necessary questions are available for you to document appropriately.

In scope areas:

- Adult Inpatient Nursing
- Emergency Room

Standalone interventions:

- Nursing: Hemodialysis Treatment +
- EDM: HEMOTREAT

EBCD programming guides the clinicians' workflow through the screens. The documentation flows between EDM and Nursing.

Collaboration involved some of HCA Healthcare's dialysis programs and partner vendors over the past two years to help understand the content and processes in order to provide these screens to you.

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Viewing Previous Documentation

You can access Clinical Review to view previous documentation by using the **F3** function key without discarding your current documentation.

The screenshot shows the 'Clinical Review' window for patient KRAFT, DEMO. The patient's information includes age (64/M), sex (ADM IN), and date of birth (J. 1N J. 10/45). Physical characteristics are listed as 157.48 cm, 60 kg, and 24.2 kg/m2. Allergies/ADRs are noted as 'No Known Allergies'. The interface features a navigation menu on the right with options like 'Pt Summary', 'Problem List', 'Special Panel', 'Daily Review', 'Order History', 'Vital Signs', 'I + O', 'LAB', 'Microbiology', 'Blood Bank', 'Pathology', 'Medications', 'Imaging', 'Other Reports', 'Notes History', 'Assessments', 'Other Menu', 'Reconcile Meds', 'More', 'Less', and 'Other Visits'. The main area displays a table of test results for 'Hep Bs Antibody' on 'May 13, 19 11:09', with a result of 'POSITIVE'. Navigation buttons for 'Previous Page' and 'Next Page' are visible, along with a bottom bar containing 'PCI', 'Order', 'Document', 'Discharge', 'Sign', and 'Return'.

Selected Visit		Lifetime Summary		
Hematology	Coagulation	Urines	Other Body Source	Miscellaneous
Blood Gas	Chemistry	Toxicology	Immunology	Serology

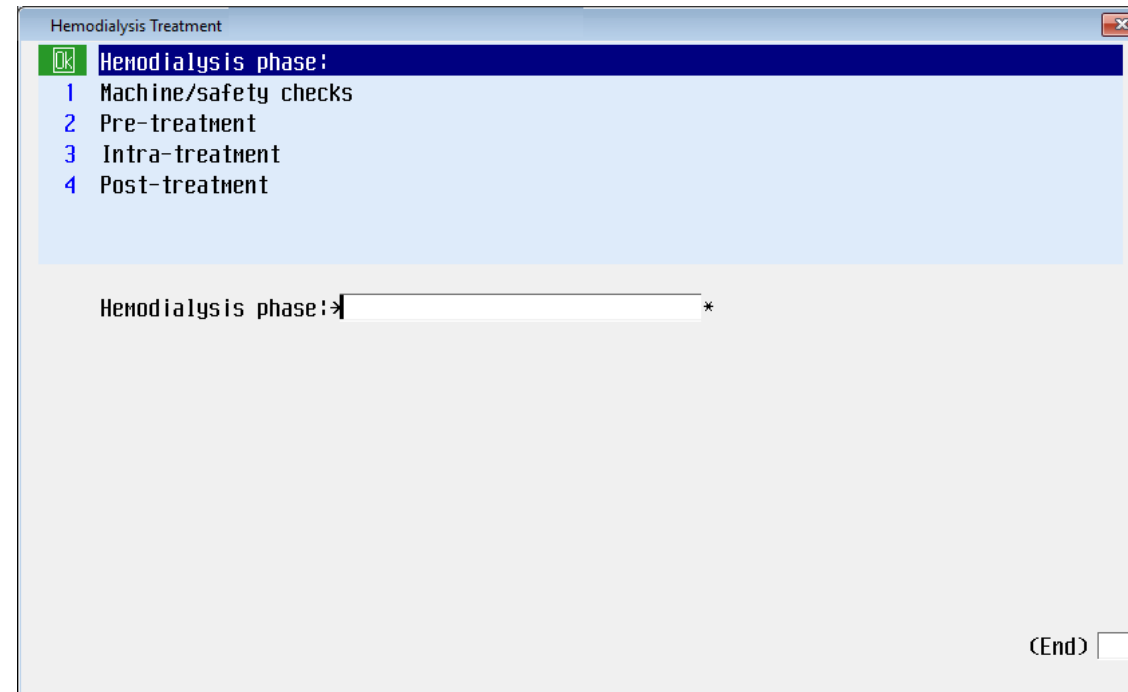
	May 13, 19 11:09
Hep Bs Antibody	POSITIVE

Press **Enter** to return to your HD documentation.

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Screen Navigation

The initial screen launches you to machine/safety checks and/or to 3 treatment phases of documentation. You're required to choose from one of the 4 phases to move forward and document, but all four options are not mandatory when documenting on this treatment.



The screenshot shows a window titled "Hemodialysis Treatment". Inside the window, there is a list of four phases: 1 Machine/safety checks, 2 Pre-treatment, 3 Intra-treatment, and 4 Post-treatment. Below the list is a text input field labeled "Hemodialysis phase:" with a cursor and an asterisk. In the bottom right corner, there is a checkbox labeled "(End)".

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

HD Machine Safety Checks

The *machine safety checks* documents the water system and machine safety checks.

The screenshot shows a web application window titled "Hemodialysis machine/safety". On the left is a tree view with a green "OK" icon and the following items: "HD water system:" (selected), "1 Main DI", "2 Main RO", "3 Portable DI", and "4 Portable RO". The main content area contains several input fields: "HD water system: → Maindi", "HD machine number: → v67g", "HD portable water system machine number: → HK9876", and "HD machine temperature C: → 98.1". Below these are two radio button questions: "HD alarm/pressure tests passed:" and "HD machine tested and verified:". A "(Next Page)" button is at the bottom right.

Alphanumeric values can be entered for machine information

Verify alarm settings and proper functioning.

Machine pH, conductivity, chlorine, etc. should be logged following facility processes.

The last two questions are Yes/No responses with guidance from the yellow info boxes

Pre Dialysis Labs

Hemodialysis machine/safety

Hepatitis B status verified:

- 1 Yes
- 2 Yes/document status
- 3 Unknown

Pre dialysis labs reviewed: Yes

Hepatitis B status verified: *

Hepatitis B status verification source:

Hepatitis isolation:

Dialysis medication orders reviewed and verified:

Dialysis machine orders reviewed and verified:

(Prev Page) (Next Page)

Hepatitis B detail

Hepatitis B antigen result:

- 1 Immune greater than 10
- 2 Negative
- 3 Not drawn
- 4 Positive
- 5 Susceptible less than 10
- 6 Unknown

Hepatitis B antigen result:

Hepatitis B antibody result:

Hepatitis B result comment:

(End)

- A. Pre dialysis labs reviewed is a **Yes/No** answer. Use **F3** to access Clinical Review if needed.
- B. Hepatitis B status verified has 3 options*. While results are not mandated to be documented for HD, this captures vendor-specific and safety needs for inpatients who may have both hemodialysis and PD during their stay (documentation is shared):
- **Yes:** results verified but you will not document values.
 - If the result is **Unknown**, a message displays to treat the patient as positive until lab confirms the negative status.
 - **Yes/document status:** a pop screen displays to document results (if required for your process). You can document multiple responses (example *positive* and *susceptible less than 10*). Document a verification source **C**.

Hemodialysis machine/safety

Hepatitis B status verification source: [or free text]

- 1 Hard copy on chart
- 2 Results verified in EMR

* Follow your facility guidelines for Hepatitis B documentation.

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

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Hepatitis Isolation, Orders, and Start Requirements

Hemodialysis machine/safety

Hepatitis isolation:

1	Initiated	Follow facility process for isolation of patients with positive or unknown hepatitis status.
2	Not applicable	

Pre dialysis labs reviewed:

Hepatitis B status verified: *

Hepatitis B status verification source:

D Hepatitis isolation:

E Dialysis medication orders reviewed and verified:

F Dialysis machine orders reviewed and verified:

(Prev Page) (Next Page)

Hemodialysis machine/safety

Hemodialysis start requirements completed:

1	Yes	Requirements completed prior to initiation of dialysis. Briefing elements: -Pt identified by two identifiers -Verify consent -Verify equipment is ready to use -Hepatitis B status reviewed -Verify complete physician orders present -Correct dialysis access verified -All patient questions/concerns answered
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G Hemodialysis start requirements completed:

(Prev Page) (End)

- D. Hepatitis isolation is documented based on your facility process.
- E. Review and verify dialysis medication orders.
- F. Review and verify dialysis machine orders if applicable.
- G. Review and complete the dialysis start requirements.
- H. File the screen. This returns you to *Process Care Items*.

Yes/No Confirmation

? File data. Care Item done. OK?

H

Pre-Treatment

Hemodialysis pre-treatment

Pre dialysis weight kg:

7	8	9	Del
4	5	6	
1	2	3	
-	0	.	Calc

This is baseline set of vitals.

Pre dialysis weight kg: 55.8
Temperature F: 98.6
Temperature C:
Blood pressure: 155/88
Pulse: 87
Respiratory rate: 22
SPO2 %: 98
Oxygen delivery devices: Room air
O2 Liters per minute:
FiO2:

(Next Page)

This phase's questions will look familiar. It begins with Pre-dialysis weight, followed by Vital Signs.

Hemodialysis pre-treatment

Document pain assessment:

- 1 Yes
- 2 No

Document pain assessment: Yes

Pain Assessment

Document objectives for pain management:

- 1 Yes
- 2 No

Deep breath at/below pain mgmt goal: Yes
Turn at/below pain mgmt goal: No
Progressive ambulation at/below pain mgmt goal: No
Perform ADLs at/below pain mgmt goal: No

Document objectives for pain management:
Patient goal for pain management:

Pain scale utilized:
Pain intensity:
Pain location:
Pain radiation:
Pain description:

(Next Page)

Next, you have the option to document a full pain assessment.

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

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Pre-Treatment

Hemodialysis pre-treatment

Monitored heart rhythm:

- Sinus +
- Atrial +
- Junctional +
- Blocks +
- Ventricular +
- Pacing +

Document pain assessment: > Yes

Cardiac monitor: > Present/Exists

Non-monitored heart rhythm: >

Monitored heart rhythm: >

Level of consciousness: >

Oriented to: >

(Prev Page) (Next Page)

Hemodialysis pre-treatment

Respirations even and unlabored:

- Yes
- No

Respirations even and unlabored: >

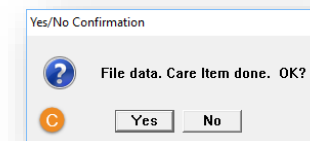
Respiratory effort and pattern: >

Left upper lobe: >

Left lower lobe: >

(Prev Page) (Next Page)

- A. The *cardiac monitor* has options to enter rhythms based on your selection followed by LOC.
- B. The next several screens document *respiratory, cough, peripheral edema* and *skin condition*. These screens use the same skip documentation as you see in other body assessment documentation.
- C. Once you finished, file the screen. This returns you to *Process Care Items*.



Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Intra-Treatment

- The Dialysis **start date** and **time** are the cornerstones of the dialysis episode.
- Once again, you have the option to pop to and document on the full pain assessment.

The screenshot shows a software window titled "Hemodialysis intra-treatment". A dialog box titled "Document pain assessment:" is open, displaying a list with two options: "1 Yes" and "2 No". Below the dialog box, the main interface shows the following fields: "Dialysis start date: 05/30/19*", "Dialysis start time: 0800*", and "Document pain assessment: >|". In the bottom right corner of the window, there is a "(Next Page)" label followed by a small square icon.

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Intra-Treatment

Time	BP	Pulse	BFR	DFR	UFR	Arterial	Venous	TMP
2100	155/84	88	25	65	32.9	5	2	1
2120		90	26.5	65.02	35.4	5.2	2.1	
2135		82	24	65.0266	24.5			
2145	148/88							
2155	150/88	78						

HD time 1: 2100 HD time 2: 2120 HD time 3: 2135 HD time 4: 2145 HD time 5: 2155
(Prev Page) (End)

HD ultrafiltration rate ml/hr 5:			
7	8	9	Del
4	5	6	
1	2	3	
-	0	.	Calc

HD time 5: 2155
HD blood pressure 5: 150/88
HD pulse 5: 78
HD blood flow rate ml/min 5: 26.2
HD dialysate flow rate ml/min 5: 65 *This value will default in but is editable.*
HD ultrafiltration rate ml/hr 5:
HD arterial pressure mmHg 5:
HD venous pressure mmHg 5:
HD transmembrane pressure mmHg 5:
HD access visible and secured 5:
HD intra-treatment comments 5:

(End)

This screen offers a new form of documentation, allowing you to document different items with a time stamp noted.

The data trends onscreen chronologically, with their individual time stamps. You can trend up to 5 rows during one open Intra-treatment session (i.e. before you file this screen).

Please note, this screen will 'time out' based on your MEDITECH screen settings. You must file your data, before the screen times out or your documentation that was not saved will be lost.

Once you complete this screen, you can file and return to *Process Care Items*.

Yes/No Confirmation

File data. Care Item done. OK?

Yes No

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Post-Treatment Times and Volumes

- The *Dialysis stop date and time* will stop the clock for this treatment.
- The *HD volume in* and *HD volume out* are to enter any volume given/removed during treatment. It will NOT be included in clinical review for total calculations. These are available to document independently in the I/O screen.
- Notice the yellow information box explains that this does not flow to the **intake and output** calculation and it displays the last documented PD volume in ml.

Hemodialysis post-treatment

HD volume in ml:

7	8	9	Del
4	5	6	
1	2	3	
-	0	.	Calc

HD volume in is not included in intake and output calculation.

Last documented HD volume in ml:
No results found.

Dialysis stop date:→05/30/19*
Dialysis stop time:→1530*

HD volume in ml:
HD volume out ml:

HD net negative volume balance ml:
HD net positive volume balance ml:

Post dialysis weight kg:

(Next Page)

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Post-Treatment

The *HD volume in ml* and *HD volume out in ml* queries can be utilized for calculating the **HD net volume balance** value (this does flow to the **I&O** calculation) only if BOTH queries are documented in the same session.

Once this net balance calculation is complete, *that* net balance query is not editable or accessible to view the online documentation information as long as both volume in and volume out queries contain a value.

The *Net Volume Balance* (negative and positive) will flow into I&O and be viewable in Clinical Review.

The screenshot shows a software window titled "Hemodialysis post-treatment". At the top left is a numeric keypad with buttons for digits 7-9, 4-6, 1-3, and a decimal point, along with "Del" and "Calc" buttons. A yellow message box on the right states: "HD volume in is not included in intake and output calculation." Below this, it says "Last documented HD volume in ml: No results found." The main form contains the following fields: "Dialysis stop date: 05/30/19*", "Dialysis stop time: 1530*", "HD volume in ml: >1200", "HD volume out ml: >1350", "HD net negative volume balance ml: 150", "HD net positive volume balance ml: ", and "Post dialysis weight kg: >". A "(Next Page)" button is in the bottom right corner. Orange callout lines connect text in the adjacent paragraphs to the "HD volume in ml" field, the "HD net negative volume balance ml" field, and the "Post dialysis weight kg" field.

Q. Enter the patient's *post dialysis weight* kg here.

Click on a tab above to navigate to the details. (Each tab may contain multiple pages.)

Post-Treatment Vital Signs

You have the opportunity to document vital signs, full pain assessment, and cardiac, and pulmonary assessments as seen during the Intra-treatment phase.

Hemodialysis post-treatment

Temperature F: 7 | 8 | 9 | Del
4 | 5 | 6
1 | 2 | 3
- | 0 | . | Calc

Temperature F: >
Temperature C:
Blood pressure:
Pulse:
Respiratory rate:

SPO2 %:
Oxygen delivery devices:
O2 Liters per minute:
FIO2%:

(Prev Page) (Next Page)

Hemodialysis post-treatment

Document pain assessment:
1 Yes
2 No

Document pain assessment:

Cardiac monitor:
Non-monitored heart rhythm:
Monitored heart rhythm:

Level of consciousness:
Oriented to:

(Prev Page) (Next Page)

Hemodialysis post-treatment

Respirations even and unlabored:
1 Yes
2 No

Respirations even and unlabored:
Respiratory effort and pattern:

Left upper lobe:
Left lower lobe:

(Prev Page) (Next Page)

Hemodialysis post-treatment

Right upper lobe:
1 Clear
2 Crackles fine
3 Crackles coarse
4 Decreased diminished
5 Distant
6 Pleural friction rubbing
7 Snoring
8 Stridor
9 Wheeze inspiratory
10 Wheeze expiratory
11 Wheeze I-E
12 Obscured by crepitus
13 Absent
14 Rales/rhonchi

Right upper lobe:
Right middle lobe:
Right lower lobe:
Cough/sputum/secretions:
Peripheral edema:
Skin condition:

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Once complete, file to return to Process Care Items.

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Resources

Hemodialysis Demonstration: Media Connect

https://mediaconnect.medcity.net/media/2019.2+EBCD-Hemodialysis/0_hzapca5k

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Hemodialysis Documentation

Adult patients on the Nursing and ED Module Enhancements



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