Think Ci-Ca Therapy.
cica-therapy.com

Your responsibility in good hands.
Think Ci-Ca Therapy.
Your responsibility. Our answers.
Your professional world is changing constantly. You appreciate technologies that are continuously evolving and help you to provide your patients with an even better therapy. We would like to support you by offering a different dimension of CRRT treatment: **Ci-Ca Therapy.**
Fresenius Medical Care is the first provider to offer a complete range of Ci-Ca Therapy products from a single source. By taking the next step in improving patient and user safety with our SecuNect technology, we support health care professionals to focus on the essential: **patient care.**
Think reliable.
Think intuitive.
Think support.
Think efficient.
Think value.
Think forward.

Think reliable.
Think Ci-Ca Therapy.

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Think reliable.
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ICU days are busy and you shouldn’t need to worry about the reliability of CRRT treatments. Ci-Ca CRRT enables excellent patient treatment with less bleeding complications and less filter clotting compared to heparin CRRT.¹⁻³

3  Houllé-Veyssière M. Intensive Crit Care Nurs 2016; 36:35-41
What is the advantage of Ci-Ca Therapy over standard heparin treatment?
Our answer

Ci-Ca regional anticoagulation is an effective and reliable alternative to heparin:

- Proven citrate protocol\(^1\)-\(^4\)
- Enabling compliance with KDIGO AKI guideline\(^5\)
- Low associated bleeding risk\(^2\)-\(^4\)
- Long filter patency\(^1\)-\(^4\)

Ci-Ca Therapy enables excellent therapy delivery with few complications:

Within 72 hours of operation, only 3% of filters are lost to clotting.  

1 Slowinski T et al. Crit Care 2015; 19:349
Ci-Ca Therapy with less complications helps to achieve the prescribed dialysis dose:

Within 72 hours of operation, the mean delivered dialysis dose matches the prescribed dose.\(^1\)

\(^1\) Kalb R et al. Ther Apher Dial 2013; 17:202-12
Ci-Ca Therapy has proven effective and reliable in more than 30 countries over the course of more than 15 years.
In conclusion, citrate based CVVHD therefore can be recommended as a useful tool for renal replacement therapy in critically ill patients in ICU.
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You need to rely on your nursing staff. You want their workload to be low and plannable. We help you to get efficient support from your nursing staff and to facilitate smoothly running CRRT treatments.
Your question
How does Ci-Ca Therapy help me increase my nursing staff’s efficiency?
Our answer
Ci-Ca Therapy enables the ICU staff to focus more on the patient and less on handling issues:

Our proven citrate protocol is fully integrated into the multiFiltratePRO and reflected in all our Ci-Ca products, allowing for a reliable and easy application in clinical routines.
Ci-Ca Therapy with less treatment interruptions reduces the workload and increases the plannability of tasks:

Within 7 days of treatment, the number of filter changes may be reduced by more than 50%.1,2

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Ready-to-use solutions make CRRT treatment less complex, helping to create a more efficient workflow:

The multiFiltratePRO applying the Ci-Ca protocol can operate with a low number of bag changes per day.

* Treatment conditions Ci-Ca CVVHD: blood flow 100 mL/min, dialysate flow 2000 mL/h, citrate/blood 4.0 mmol/L, calcium/effluent 1.7 mmol/L, net UF 100 mL/h
Due to the findings of this study, we also changed management of C-CVVHD in our unit to a restart of the circuits on Fridays resulting in stable CRRT over the weekend. This way, we reduced the workload for the (reduced number of) staff on a weekend.
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You want to continuously improve your therapy, while considering budget constraints. So you are looking for the efficient use of CRRT consumables. The goal of our Ci-Ca therapy is to support you in reducing the total cost of ownership.
Your question

How does switching to Ci-Ca Therapy help me lower the overall cost of treatment?
Our answer

Ci-Ca Therapy may contribute to cost optimisation at various levels:

- Improved workflows\textsuperscript{1,2}
- Reduced consumption of dialysis fluids by avoiding significant predilution\textsuperscript{3}
- Less bleeding complications, potentially resulting in fewer blood transfusions\textsuperscript{1,4,5,6}

\textsuperscript{1} Kalb R et al. Ther Apher Dial 2013; 17:202-12
\textsuperscript{2} Houllé-Veyssière M Intensive Crit Care Nurs 2016; 36:35-41
\textsuperscript{3} Huang Z et al. Int J Artif Organs 2008, 31:525-534
\textsuperscript{4} Link A et al. Crit Care 2012; 16:R97
\textsuperscript{5} Slowinski T et al. Crit Care 2015; 19:349
\textsuperscript{6} Kindgen-Milles D et al. Curr Opin Crit Care 2018; 24:451
Think value. Think Ci-Ca Therapy.

Long filter patency

Ci-Ca Therapy enables more efficient workflows and better plannability due to:

- Less filter clotting
- Few bag changes only
- Less bleeding complications

4 Kalb R et al. Ther Apher Dial 2013; 17:202-12
5 Based on internal data

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Ci-Ca Therapy helps to reduce the consumption of materials:

- Fewer filter changes due to less frequent clotting\(^1,2\)
- Efficient use of CRRT fluid with Ci-Ca CVVHD, as significant predilution is avoided\(^3\)

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Visualisation based on data from Hafner et al.\(^2\)
Think value. Think Ci-Ca Therapy.

Ci-Ca Therapy offers the complete range of products required for reliable and effective CRRT treatment:

- Enabling excellent therapy delivery
- Designed for safety and convenience
- From a single source
“[…] C-CVVHD is most likely less expensive and more cost-effective than conventional anticoagulation.”

Kalb R et al. Ther Apher Dial 2013; 17:211
The abbreviation C-CVVHD was used in the original publication for CVVHD with citrate anticoagulation.
Think support.
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Do you already think Ci-Ca Therapy? Remember, local support is just a call away. We are more than happy to show you the way to reliable and cost-efficient CRRT.
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