

CRRT: The Lifeline For Hemodynamically Unstable Icu Patients | Datam Intelligence

CRRT offers continuous, precise blood purification for critically ill patients, reducing risks tied to conventional dialysis.


AUSTIN, TX, UNITED STATES, August 11, 2025 /EINPresswire.com/ -- CRRT (Continuous Renal Replacement Therapy) offers 24-hour continuous blood purification for critically ill patients, effectively managing solute removal and fluid balance when intermittent dialysis might be unsafe.

It encompasses three main therapies—Continuous Venovenous Hemofiltration (CVVH), Continuous Venovenous Hemodialysis (CVVHD), and Continuous Venovenous Hemodiafiltration (CVVHDF) that vary by their mechanisms of clearance (convective, diffusive, or combined).

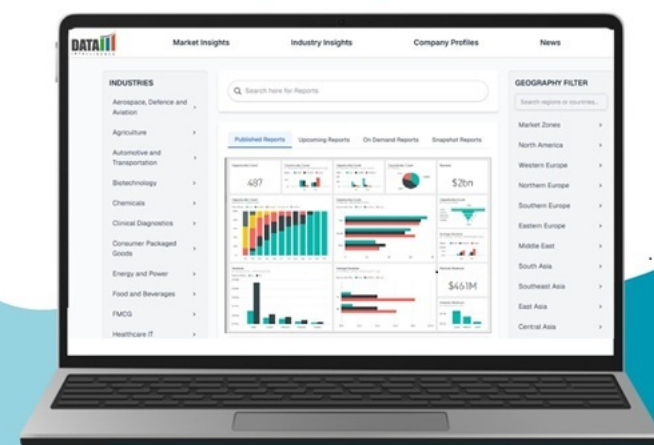
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A 2024 study involving 195 ICU survivors with acute kidney injury found that 57.4% of patients received chronic renal replacement therapy (CRRT), while 42.6% underwent intermittent renal replacement therapy (IRRT). This highlights clinician preference for CRRT in critical illness contexts, particularly among severely ill patients. Both groups showed similar long-term outcomes in mortality and health-related quality of life one year post-ICU discharge.

In critically ill ICU patients, conventional dialysis can be too harsh, leading to serious complications like sepsis, multi-organ failure, or delayed recovery. In these high-stakes situations, clinicians use Continuous Renal Replacement Therapy (CRRT), a gentler solution in critical care, to prevent further complications.



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In critical care, CRRT is more than a treatment-it's a lifeline, delivering steady, gentle kidney support when patients need stability the most."

*Gundreddy Gopinadh |
Research Head*

According to DataM Intelligence "The [continuous renal replacement therapy market](#) reached US\$ 714.35 million in 2023, with a rise of US\$ 757.68 million in 2024, and is expected to reach US\$ 1,339.78 million by 2033, growing at a CAGR of 6.3% during the forecast period 2025-2033".

CRRT doesn't rush instead, it works quietly and continuously, helping care teams manage fluid and electrolyte levels with surgical precision. This steady approach eases the burden on the heart and circulatory

system, especially vital for patients whose bodies are already fighting hard to survive. But precision comes with planning. Delivering CRRT typically means accessing the bloodstream through a dual-lumen catheter, often inserted into the jugular or femoral vein. To ensure safety and minimize long-term risks, this access may eventually need to be tunneled beneath the skin, shielding the patient from future complications.

Major Companies:

The major players in the Continuous Renal Replacement Therapy market include Baxter International Inc., Fresenius Medical Care AG & Co. KGaA, B. Braun Melsungen AG, Asahi Kasei Medical Co., Ltd., Nipro Corporation, Nikkiso Co., Ltd., Fresenius Medical Care AG, Infomed SA, Vantive, and Medica SPA.

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Key Developments:

□ In March 2025, Talphera, a specialty pharmaceutical company, partnered with the FDA to reduce the size of the NEPHRO CRRT study from 166 to 70 patients. The company has also entered into securities purchase agreements with institutional investors and a management member for the sale and issuance of common stock shares and pre-funded warrants instead of shares in a three-tranche private placement, with potential gross proceeds of up to \$14.8 million.

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Author: Gundreddy Gopinadh is a healthcare research analyst with over a decade of experience in medical devices, pharmaceuticals, biotechnology, and in-vitro diagnostics (IVD). He specializes in delivering actionable insights through custom market research projects, helping organizations analyze trends, assess competitive landscapes, and uncover growth opportunities. His expertise has guided healthcare companies in product development, strategic planning, and market expansion, positioning him as a trusted contributor to data-driven innovation in the global healthcare industry.

Sai Kiran

DataM Intelligence 4market Research LLP

877-441-4866

sai.k@datamintelligence.com

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