The therapeutic system designed for neonatal and pediatric patients

Acute renal failure in the newborn

Acute renal failure in neonatal intensive care units reaches incidence percentages ranging between 5% and 20% of the cases observed.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used 'off label'.

The utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In neonatal intensive care units the risk of acute kidney injury (aKi) is particularly high as a result of:

- low cardiac output
- renal hypoperfusion
- altered haemodynamics
- toxic or obstructive conditions.

In children with congenital cardiopathy, the risk reaches incidence percentages ranging between 5% and 20% of the cases observed.

The therapeutic system designed for neonatal and pediatric patients

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Whereas critical adult patients receive renal support with advanced devices, patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.

Carpediem™ is truly a ‘pediatric’ device: miniature and portable, it provides renal replacement therapies in neonatal patients with the utmost safety and efficacy.

In clinical practice today renal replacement therapies for pediatric patients weighing less than 10 kg is administered with adult devices used ‘off label’, which requires the utmost safety and efficacy.
Minimum invasiveness, maximum efficacy: the added value of CARPEDIEM™

Uniqueness

CARPEDIEM™ is the only device on the market capable of performing ultrafiltration and haemofiltration in newborn babies with a body weight between 2.5 and 10 kg.

The painstaking research and development work in collaboration with the Department of Nephrology and IRCCS of Vicenza has brought about the development of this device, equipped with high-precision scales with an error resolution of 1 g, as well as innovative new peristaltic pumps featuring 3 rollers to ensure the highest precision and the most effective flow safety.

In addition, CARPEDIEM™ comes in a pre-assembled kit for specific treatment of each patient, with the ability to choose 3 different types of hemofilters based on the patient’s weight.

The attention given to treatment flexibility in the system’s design allows a choice between isolated ultrafiltration and haemofiltration in pre- or post-dilution with just a single disposable kit.

High Performance and Efficiency through personalized programming of:

- Peristaltic pumps with 3 rollers for maximum precision of blood, infusion, and ultrafiltration flows
- Highly sensitive blood leakage and air detection sensors
- Acoustic and visual warnings
- Heparin pump
- Fluid balance control supervised by high-precision scales

Simplicity and Accuracy

- Reduced priming volume
  CARPEDIEM™ can operate with a priming volume as low as 25 mL. Equipped with a filter detector, it is capable of automatically calculating the priming volume required based on the haemofilter chosen.
- Easy to handle and transport
  Equipped with a trolley including an IV pole for easy transport.
- Flexibility in the treatments
  Performs continuous ultrafiltration and haemofiltration treatments with the same disposable both in pre- and post-dilution for a maximum time of 24 hours.
- Unique device capable of performing ultrafiltration and haemofiltration in newborn babies with a body weight between 2.5 and 10 kg.
- Ease of use
  The intuitive and user-friendly software and the cutting-edge innovative disposable installation of the circuit with total safety.
- Compact
  Small in size (45 x 50 x 22 cm), CARPEDIEM™ can be easily placed inside neonatal intensive care units.