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Crearene, University Medical Center of Groningen and Alzchem announce further details on results of clinical study administrating creatine during hemodialysis

Dialysis patients suffer from creatine depletion because their body cannot create creatine anymore. This depletion could contribute to their poor quality of life, severe fatigue and muscle weakness – all of which are symptoms that dialysis patients suffer from. A University Medical Center Groningen team led by Prof. Dr. Stephan Bakker has successfully concluded a groundbreaking and innovative feasibility-, safety- and dose finding study in March 2024. The University Medical Center Groningen team was supported by Crearene AG and used specially purified creatine provided by the Alzchem group.

All three goals of the clinical study have been met. The study confirmed (1) technical feasibility of simultaneous creatine administration during hemodialysis treatment, (2) administration of creatine during dialysis to patients with end stage chronic kidney disease is well tolerated and (3) the study produced clear results on the effective dosage of intra-dialytic creatine for replenishment purposes. Positive absorption gradients of creatine in the human body were confirmed by three independent methods.

In addition to the study's primary research objectives, initial observations regarding clinically relevant efficacy parameters were made. Based on these observations hand grip strength (HGS), as one typical test for patients' physical conditions, can be selected as an end point for further evaluation. Importantly, HGS has been found to be a relevant indicator of health outcomes in other studies. A scientific report will soon be submitted for publication.

Crearene AG has filed patents based on the results of the clinical study. Alzchem Group AG and Crearene AG as development partners are excited about the results which represent a solid basis for product formulation and swift go-to-market introductions.

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