




# Bibliography

Short & Frequent  
Hemodialysis at home



# PERFORMANCES

## Kt/V adequacy

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Cherukuri, S., Bajo, M., Colussi, G. et al. Home hemodialysis treatment and outcomes: retrospective analysis of the Knowledge to Improve Home Dialysis Network in Europe (KIHDNEy) cohort. *BMC Nephrol* 19, 262 (2018). <https://doi.org/10.1186/s12882-018-1059-2>

LW

Cp



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## Low pre dialytic $\beta$ 2m value

 Fessi, H.; Nicoud, P.; Serrato, T.; Gilbert, O.; Courivaud, C.; Daoud, S.; Morena, M.; Thomas, M.; Canaud, B.; Cristol, J.-P. Two Years' Experience of Intensive Home Hemodialysis with the Physidia S<sup>3</sup> System: Results from the RECAP Study. *J. Clin. Med.* 2023, 12, 1357.

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## High $\beta$ 2m and middle molecules removal due to treatment frequency


González Moya, M; Molina, P.; Molina, M.D.; García-Valdelvira, M.; Vizcaíno, B.; Montesa Marín, M.; Ventura, J.; Pérez-Zafra, E.; Calatayud, E.; Valero, A.; Beltrán, S.; Estañ, N.; Asuncion Sancho Calabuig, M.; MO661: Elimination of Middle and Large Uraemic Toxins in Short Daily Home Haemodialysis with Low Dialysate Volume: A Randomized Crossover Clinical Trial, *Nephrology Dialysis Transplantation*, Volume 37, Issue Supplement\_3, May 2022, gfac077.021

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 Thomas, M.; Vincent, E.; Todorova, V.; P1051A Single Session And Weekly Beta 2 Microglobulin Removal During Short Frequent Hemodialysis Using Physidia Technology, *Nephrology Dialysis Transplantation*, Volume 35, Issue Supplement\_3, June 2020, gfaa142.P1051A

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# Achievable performance with obese patients

**Andrew Davenport**, Differences in prescribed Kt/V and delivered haemodialysis dose—why obesity makes a difference to survival for haemodialysis patients when using a 'one size fits all' Kt/V target, *Nephrology Dialysis Transplantation*, Volume 28, Issue suppl\_4, November 2013, Pages iv219–iv223



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**Alalwan A A, Abou Trabeah A, Ahamed M, et al.** (February 16, 2023) Low-Volume Home Haemodialysis and In-Centre Haemodialysis: Comparison of Dialysis Adequacy in Obese Individuals. *Cureus* 15(2): e35054

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## QUALITY OF LIFE

### Improvement quality of life

**Miller BW, Himmele R, Sawin DA, Kim J, Kossmann RJ. Choosing** Home Hemodialysis: A Critical Review of Patient Outcomes. *Blood Purif.* 2018;45(1-3):224-229. doi: 10.1159/000485159. Epub 2018 Jan 26.



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Read the article

## Quicker recovery time after treatment

LW

Cp

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Read the article

## Patients can maintain activity (work)



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Fessi, H.; Nicoud, P.; Serrato, T.; Gilbert, O.; Courivaud, C.; Daoud, S.; Morena, M.; Thomas, M.; Canaud, B.; Cristol, J.-P. Two Years' Experience of Intensive Home Hemodialysis with the Physidia S<sup>3</sup> System: Results from the RECAP Study. *J. Clin. Med.* 2023, 12, 1357.



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## Lower diet constraint

Watanabe Y, Ohno Y, Inoue T, Takane H, Okada H, Suzuki H. Home hemodialysis and conventional in-center hemodialysis in Japan: a comparison of health-related quality of life. *Hemodial Int.* 2014 Oct;18 Suppl 1:S32-8. doi: 10.1111/hdi.12221. PMID: 25330829.



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# PATIENT PREFERENCE

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## CLINICAL OUTCOMES

### General Health

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### Less Ventricular Hypertrophy

FHN Trial Group; Chertow GM, Levin NW, Beck GJ, Depner TA, Eggers PW, Gassman JJ, Gorodetskaya I, Greene T, James S, Larive B, Lindsay RM, Mehta RL, Miller B, Ornt DB, Rajagopalan S, Rastogi A, Rocco MV, Schiller B, Sergeyeva O, Schulman G, Ting GO, Unruh ML, Star RA, Klinger AS. In-center hemodialysis six times per week versus three times per week. *N Engl J Med.* 2010 Dec 9;363(24):2287-300. doi: 10.1056/NEJMoa1001593. Epub 2010 Nov 20. Erratum in: *N Engl J Med.* 2011 Jan 6;364(1):93.



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FHN Trial Group; Chertow GM, Levin NW, Beck GJ, Depner TA, Eggers PW, Gassman JJ, Gorodetskaya I, Greene T, James S, Larive B, Lindsay RM, Mehta RL, Miller B, Ornt DB, Rajagopalan S, Rastogi A, Rocco MV, Schiller B, Sergeyeva O, Schulman G, Ting GO, Unruh ML, Star RA, Klinger AS. In-center hemodialysis six times per week versus three times per week. *N Engl J Med.* 2010 Dec 9;363(24):2287-300. doi: 10.1056/NEJMoa1001593. Epub 2010 Nov 20. Erratum in: *N Engl J Med.* 2011 Jan 6;364(1):93.




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Kotanko P, Garg AX, Depner T, Pierratos A, Chan CT, Levin NW, Greene T, Larive B, Beck GJ, Gassman J, Klinger AS, Stokes JB; FHN Trial Group. Effects of frequent hemodialysis on blood pressure: Results from the randomized frequent hemodialysis network trials. *Hemodial Int.* 2015 Jul;19(3):386-401. doi: 10.1111/hdi.12255. Epub 2015 Jan 5.



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## Better hemodynamic (blood pressure decrease and/or lower hypertensive medication)


 Fessi, H.; Nicoud, P.; Serrato, T.; Gilbert, O.; Courivaud, C.; Daoud, S.; Morena, M.; Thomas, M.; Canaud, B.; Cristol, J.-P. Two Years' Experience of Intensive Home Hemodialysis with the Physidia S<sup>3</sup> System: Results from the RECAP Study. *J. Clin. Med.* 2023, 12, 1357.

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Read the article

## Better hemodynamic (lower intradialytic hypotension incidence)

Kotanko P, Garg AX, Depner T, Pierratos A, Chan CT, Levin NW, Greene T, Larive B, Beck GJ, Gassman J, Klinger AS, Stokes JB; FHN Trial Group. Effects of frequent hemodialysis on blood pressure: Results from the randomized frequent hemodialysis network trials. *Hemodial Int.* 2015 Jul;19(3):386-401. doi: 10.1111/hdi.12255. Epub 2015 Jan 5.



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## Low ultrafiltration rate


 Fessi, H.; Nicoud, P.; Serrato, T.; Gilbert, O.; Courivaud, C.; Daoud, S.; Morena, M.; Thomas, M.; Canaud, B.; Cristol, J.-P. Two Years' Experience of Intensive Home Hemodialysis with the Physidia S<sup>3</sup> System: Results from the RECAP Study. *J. Clin. Med.* 2023, 12, 1357.

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## Adequate phosphate level control

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## Phosphate binders dose & PTH

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# Improvement nutritional status

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# SURVIVAL

## Longer life expectancy

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## Lower hospitalization

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## Advantage in Health Economy

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