

**PUBLICATIONS AND PRESENTATIONS**  
**Frequent Hemodialysis Network (FHN)**  
**as of September, 2014**  
**(Prepared by the FHN Data Coordinating Center)**

**PAPERS**

- Suri RS, Nesrallah GE, Mainra R, Garg AX, Lindsay RM, Greene T, and Daugirdas JT. Daily hemodialysis: A systematic review. Clinical Journal of the American Society of Nephrology. 1:33-42, 2006. PMID: 17699188
- Suri RS, Garg AX, Chertow GM, Levin NW, Rocco MV, Greene T, Beck GJ, Gassman JJ, Eggers PW, Star RA, Ornt DB, Kliger AS for the Frequent Hemodialysis Network (FHN) Trial Group. Frequent Hemodialysis Network (FHN) randomized trials: Study design. Kidney International. 71:349-359, 2007. PMID: 17164834
- Kliger AS for the Frequent Hemodialysis Network Study Group. High frequency hemodialysis: Rationale for the randomized clinical trials. Clinical Journal of the American Society of Nephrology. 2:390-392, 2007. PMID: 17699439
- Daugirdas JT, Depner TA, Greene T, Kuhlmann MK, Levin NW, Chertow GM, Rocco MV. Surface-area-normalized Kt/V: a method of rescaling dialysis dose to body surface area-implications for different-size patients by gender. Seminars in Dialysis. 21:415-21, 2008. PMID: 18945330
- Greene T, Daugirdas JT, Depner TA, Gotch F, Kuhlman M for the FHN Trial Group. Solute clearances and fluid removal in the Frequent Hemodialysis Network Trials. American Journal of Kidney Diseases. 53:835-844, 2009. PMID: 19339093
- Kliger A. More intensive hemodialysis. Clinical Journal of the American Society of Nephrology. 4: S121-S124, 2009. PMID: 19995995
- Daugirdas JT, Depner TA, Greene T, Levin NW, Chertow GM, Rocco MV, Stokes J and the Frequent Hemodialysis Network (FHN) Trial Group. Effects of reduced intradialytic urea generation rate and residual renal clearance on modeled urea distribution volume and Kt/V in nocturnal dialysis. Seminars in Dialysis. 23:19-24, 2010. PMID: 20331814
- Daugirdas JT, Depner TA, Greene T, Levin NW, Chertow GM, Rocco MV and the Frequent Hemodialysis Network (FHN) Trial Group. Standard Kt/V<sub>urea</sub>: A method of calculation that includes the effects of fluid removal and residual kidney clearance. Kidney International. 77: 637-644, 2010. PMID: 20107428
- Tamura MK, Larive B, Unruh ML, Stokes JB, Nissenson A, Mehta RL, Chertow GM for the Frequent Hemodialysis Network (FHN) Trials Group. Prevalence and correlates of cognitive impairment in hemodialysis patients: the Frequent Hemodialysis Network (FHN) Trials. Clinical Journal of the American Society of Nephrology. 5:1429-38, 2010. PMID: 20576825
- Pipkin M, Eggers PW, Larive B, Rocco MV, Stokes JB, Suri RS, Lockridge, RS for the Frequent Hemodialysis Network Trial Group. Recruitment and training for home hemodialysis: experience and lessons from the Nocturnal Dialysis Trial. Clinical Journal of the American Society of Nephrology. 5:1614-20, 2010. PMID: 20576829

- The FHN Trial Group prepared by 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, Kliger AS. In-center hemodialysis six times per week versus three times per week. New England Journal of Medicine. 363:2287-300, 2010. PMID: 21091062
- Chan CT, Levin NW, Chertow GM, Larive B, Schulman G, Kotanko P for the Frequent Hemodialysis Network (FHN) Trial Group. Determinants of cardiac autonomic dysfunction in ESRD. Clinical Journal of the American Society of Nephrology. 5:1821-1827, 2010. PMID: 20616163
- Rocco MV, Larive B, Eggers PW, Beck GJ, Chertow GM, Levin NW, Kliger AS for the FHN Trial Group. Baseline characteristics of participants in the Frequent Hemodialysis Network (FHN) Daily and Nocturnal Trials. American Journal of Kidney Disease. 57:90-100, 2011. PMID: 21122961
- Kaysen GA, Larive B, Painter P, Craig A, Lindsay RM, Rocco MV, Daugirdas JT, Schulman G, Chertow GM on behalf of the FHN Trial Group. Baseline physical performance, health and functioning of participants in the Frequent Hemodialysis Network (FHN) Trial. American Journal of Kidney Diseases. 57:101-112, 2011. PMID: 21184919
- Daugirdas JT, Finn WF, Emmett ME, Chertow GM and the FHN Trial Group. The phosphate binder equivalent dose. Seminars in Dialysis. 24:41-9, 2011. PMID: 21338393
- Unruh M, Tamura MK, Larive B, Rastogi A, James S, Schiller B, Gassman J, Chan C, Lockridge R, Kliger A. Impact of sleep quality on cardiovascular outcomes in hemodialysis patients: results from the Frequent Hemodialysis Network Study. American Journal of Nephrology. 33:398-406, 2011. PMID: 21474924
- Raimann JG, Thijssen S, Ramos R, Levin NW. More frequent hemodialysis: what do we know? where do we stand? Ronco C, Rosner MH (eds): Hemodialysis: New Methods and Future Technology. Contrib Nephrol. Basel, Karger, 171:10-16, 2011.
- Suri RS, Larive B, Garg AX, Hall YN, Pierratos A, Chertow GM, Kliger AS for the FHN Trial Group. Burden on caregivers as perceived by hemodialysis patients in the Frequent Hemodialysis Network (FHN) trials. Nephrology, Dialysis and Transplantation. 26:2316-2322, 2011. PMID: 21421590
- Rocco MV, Lockridge RS, Beck GJ, Eggers PW, Gassman JJ, Greene T, Larive B, Chan CT, Chertow GM, Copland M, Hoy C, Lindsay RM, Levin NW, Ornt DB, Pierratos A, Pipkin M, Rajagopalan S, Stokes JB, Unruh ML, Star RA, Kliger AS for the FHN Trial Group. The effects of nocturnal home hemodialysis: The Frequent Hemodialysis Network Nocturnal Trial. Kidney International. 80:1080-91, 2011. PMID: 21775973
- Daugirdas JT, Chertow GM, Larive B, Pierratos A, Greene T, Ayus JC, Kendrick C, James SH, Miller BW, Schulman G, Salusky IB, Kliger AS and the Frequent Hemodialysis Network (FHN) Trial Group. Effects of frequent hemodialysis on measures of CKD mineral and bone disorder. Journal of American Society of Nephrology. 23:727-738, 2012. PMID: 22362907
- Sergeyeva O, Gorodetskaya I, Ramos R, Schiller B, Larive B, Raimann JG, Ting GO, Eggers

- PW, Chertow GM, Levin NW and the Frequent Hemodialysis Network Trials Group. Challenges to enrollment and randomization of the Frequent Hemodialysis Network (FHN) Daily Trial. Journal of Nephrology. 25:302-309, 2012. PMID: 22505248
- Kaysen GA, Greene T, Larive B, Mehta RL, Lindsay RM, Depner TA, Hall YN, Daugirdas JT, Chertow GM and the FHN Trial Group. The effect of frequent hemodialysis on nutrition and body composition: Frequent Hemodialysis Network Trial. Kidney International. 82:90-99, 2012. PMC: 3328304
- Hall Y, Larive B, Painter P, Kaysen G, Lindsay R, Nissenson A, Unruh M, Rocco M, Chertow G. Effects of six versus three times per week hemodialysis on physical performance, health and functioning: Frequent Hemodialysis Network (FHN) Randomized Trials. Clinical Journal of the American Society of Nephrology. 7:782-794, 2012. PMID: 22422538
- Chan CT, Greene T, Chertow G, Klinger AS, Stokes JB, Beck GJ, Daugirdas JT, Kotanko P, Larive B, Levin NW, Mehta RL, Rocco M, Sanz J, Schiller BM, Yang PC, Rajagopalan S and the FHN Trial Group. Determinants of left ventricular mass in patients on hemodialysis: the Frequent Hemodialysis Network (FHN) Trials. Circulation: Cardiovascular Imaging. 5:251-261, 2012. PMID: 22360996; PMCID: PMC3328963
- Daugirdas JT, Leypoldt K, Akonur A, Greene T, Depner TA and the FHN Trial Group. Improved equation for estimating single-pool  $Kt/V$  at higher dialysis frequencies. Nephrology Dialysis Transplantation. 28:2156-60, 2013. PMID: 22561585, PMC 3765020
- Klinger AS. Does daily haemodialysis reduce survival? Nature Reviews Nephrology. 9:8-9, 2013. PMID: 23147761
- Tamura MK, Unruh ML, Nissenson AR, Larive B, Eggers PW, Gassman J, Mehta RL, Klinger AS, Stokes JB, for the Frequent Hemodialysis Network (FHN) Trial Group. The effect of more frequent hemodialysis on cognitive function in the Frequent Hemodialysis Network Trials. American Journal of Kidney Disease. 61:228-237, 2013. PMID: 23149295; PMCID: PMC3546160
- Ornt D, Larive B, Rastogi A, Rashid M, Daugirdas JT, Hernandez A, Tamura MK, Suri R, Levin N, Klinger AS and the FHN Trial Group. Impact of frequent hemodialysis on anemia management: results from the Frequent Hemodialysis Network (FHN) Trials. Nephrology Dialysis Transplantation. 28:1888-98, 2013, PMID: 23358839, PMC 3707527
- Daugirdas J, Greene T, Rocco M, Kaysen G, Depner T, Levin N, Chertow G, Ornt D, Raimann J, Larive B, Klinger A and the FHN Trial Group. Effect of frequent hemodialysis on residual kidney function: Frequent Hemodialysis Network (FHN) Trials. Kidney International. 83:949-958, 2013, PMID: 23344474
- Suri RS, Larive B, Sherer S, Eggers P, Gassman J, James SH, Lindsay RM, Lockridge RS, Ornt DB, Rocco MV, Ting GO, Klinger AS and the Frequent Hemodialysis Network Trial Group. Risk of vascular access complications with frequent hemodialysis. Journal of the American Society of Nephrology. 24:498-505, 2013. PMID: 23393319, PMC: 3582201
- Unruh ML, Larive B, Chertow GM, Eggers PW, Garg AX, Gassman J, Tarallo M, Finkelstein FO, Kimmel PL for FHN Trials Group. Effects of six versus three times per week

hemodialysis on depressive symptoms and self-reported mental health: Frequent Hemodialysis Network (FHN) Trials. American Journal of Kidney Disease. 61:748-58, 2013. PMID: 23332990

Chan CT, Greene T, Chertow GM, Kliger AS, Stokes JB, Beck GJ, Daugirdas JT, Kotanko P, Larive B, Levin NW, Mehta RL, Rocco M, Sanz J, Yang PC, Rajagopalan S and the Frequent Hemodialysis Network Trial Group. Effects of frequent hemodialysis on ventricular volumes and left ventricular remodeling. Clinical Journal of the American Society of Nephrology. 8:2106-16, 2013. PMID: 23970131

Chan CT, Chertow GM, Daugirdas JT, Greene TH, Kotanko P, Larive B, Pierratos A, Stokes JB and the Frequent Hemodialysis Network (FHN) Daily Trial Group. Effects of daily hemodialysis on heart rate variability: results from the Frequent Hemodialysis Network (FHN) Daily Trial. Nephrology Dialysis Transplantation. 29:168-78, 2014. PMID: 24078335. PMC: 3888308

Suri RS, Larive B, Hall Y, Kimmel PL, Kliger AS, Levin N, Tamura MK, Chertow GM and the Frequent Hemodialysis Network (FHN) Trial Group. Effects of frequent hemodialysis on perceived caregiver burden in the Frequent Hemodialysis Network Trials. Clinical Journal of the American Society of Nephrology. 9:936-42, 2014. PMID 24721892

## **PAPERS IN PRESS**

## **PAPERS SUBMITTED**

Kotanko P, Stokes JB, Garg AX, Depner T, Pierratos A, Chan CT, Levin NW, Greene T, Larive B, Beck GJ, Gassman J, Kliger AS and the FHN Trial Group. Effects of frequent hemodialysis on blood pressure: Results from the Frequent Hemodialysis Network Trials. Submitted to Hemodialysis International.

Rocco JV, Daugirdas JT, Greene T, Lockridge RS, Chan C, Pierratos A, Lindsay R, Larive B, Chertow GM, Beck GJ, Eggers PW, Kliger AS and the FHN Trial Group. Long-term effects of frequent nocturnal hemodialysis on mortality: The Frequent Hemodialysis Network Nocturnal Trial. Submitted to American Journal of Kidney Disease.

Ferrario M, Raimann JG, Larive B, Pierratos A, Thijssen S, Rajagopalan S, Greene T, Cerutti S, Beck G, Chan C, Kotanko P and the Frequent Hemodialysis Network (FHN) Trial Group. Cross-sectional analysis of non-linear heart rate variability indices in a large cohort of chronic hemodialysis patients. Submitted to American Heart Journal.

## **LETTERS TO THE EDITOR**

Rocco MV, Kliger AS. The authors reply. Kidney International. 82:115, 2012.

## **ABSTRACTS**

Daugirdas JT, Depner TA, Greene T, Kuhlmann MK, et al. SAN (Surface Area Normalized) values for single-pool and standard Kt/V Journal of the American Society of Nephrology

17:60A, 2006.

Greene T, Daugirdas J, Depner T, Gotch F, Kuhlmann M, Kotanko P, Star R and the FHN Trial Group. Clearance and volume removal values for target dialysis prescription in the Frequent Hemodialysis Network (FHN) Trials. Journal of the American Society of Nephrology. 17:337A, 2006.

Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of in-center daily hemodialysis. Journal of the American Society of Nephrology. 17: 338A, 2006.

Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of home nocturnal hemodialysis. Journal of the American Society of Nephrology. 17:338A, 2006.

Frequent Hemodialysis Network (FHN) Trial Group. Progress of the Frequent Hemodialysis Network randomized trial of in-center daily hemodialysis. American Journal of Kidney Diseases. 49:B40, 2007.

Frequent Hemodialysis Network (FHN) Trial Group. The Frequent Hemodialysis Network randomized trial of home nocturnal hemodialysis: change of the trial design. American Journal of Kidney Diseases. 49:B40, 2007.

Frequent Hemodialysis Network (FHN) Trial Group, Gassman J, Rocco M, Beck G, Larive B, Sherer S, Klinger A, Eggers P. Changing a protocol early in a trial's Vanguard phase: The Frequent Hemodialysis Network Home Nocturnal Hemodialysis Trial. Clinical Trials: Journal of the Society for Clinical Trials. 4:421, 2007.

Sergeyeva O, Gorodetskaya I, Champagne J, Sherer S, Carter M for the FHN Trial group. Recruitment successes and challenges in the Frequent Hemodialysis Network (FHN) Daily Trial. Journal of the American Society of Nephrology. 18:79A, 2007.

Depner T, Daugirdas J, Greene T, Schulman G for the FHN Trial Group. Improved simplified formula for estimating hemodialysis standard  $Kt/V_{urea}$ . Journal of the American Society of Nephrology. 19: 693-94A, 2008.

Daugirdas J, Depner T, Greene T, Levin NW, Chertow G, Rocco M and the FHN Trial Group. A model of frequent nocturnal dialysis with reduced urea generation (G) at night significantly affects urea distribution volume, G, and  $Kt/V$ . Journal of the American Society of Nephrology. 20:463A, 2009.

Daugirdas J, Depner T, Greene T, Levin NW, Chertow G, Rocco M and the Frequent Hemodialysis Network (FHN) Trial Group. The "Standard"  $Kt/V$  inadvertently reduces the contribution of residual kidney urea clearance by an average of 25–30%. Journal of the American Society of Nephrology. 20:471A, 2009.

Kaysen G, Larive B, Lindsay RM, Rocco M, Daugirdas J, Chertow G, Eggers P and the FHN Trial Group. Relationship between body composition and physical performance at initiation of Frequent Hemodialysis Study (FHN). Journal of the American Society of Nephrology. 20:458A, 2009.

Kaysen G, Raimann J, Liu L, Abbas S, Ramos R, Ulloa D, Tarallo M, Gale B, Larive B, Kotanko P, Levin NW. Assessment of intracellular water in hemodialysis patients by

single-frequency and bioimpedance spectroscopy. Journal of the American Society of Nephrology. 20:702A, 2009.

Pipkin M, Larive B, Rocco M, Stokes J, Suri R, Lockridge R, Eggers P for the FHN Trial Group. Barriers to recruitment for home hemodialysis. Journal of the American Society of Nephrology. 20:676A, 2009.

Raimann J, Liu L, Abbas S, Ramos R, Ulloa D, Tarallo M, Kaysen G, Gale B, Larive B, Kotanko P, Levin N and the FHN Trial Group. Assessment of intracellular water in hemodialysis patients by single-frequency and bioimpedance spectroscopy. Journal of the American Society of Nephrology. 20:594A, 2009.

Rocco M, Klinger A, Beck G, Eggers P and the FHN Trial Group. Baseline results from the Frequent Hemodialysis Network Nocturnal Trial. Journal of the American Society of Nephrology. 20:193A, 2009.

Sergeyeva O, Gorodetskaya I, Ramos R, Figuracion E, Ulloa D, Riley J, Moossavi S, Luan J, Suter M, Rashid M, Sanz G, Schmuck M, Chertow G, Levin NW. Challenges to enrollment in a randomized clinical trial of frequent in-center hemodialysis. Journal of the American Society of Nephrology. 20:675A, 2009.

Suri R, Larive B, Hall Y, Pierratos A, Gorodetskaya I, Garg A, Beck G, Eggers P, Klinger A and the Frequent Hemodialysis Network (FHN) Trial Group. Burden on caregivers as perceived by hemodialysis patients in the FHN Trials. Journal of the American Society of Nephrology. 20:676A, 2009.

Tamura M, Larive B, Unruh M, Stokes J, Beck GJ, Mehta R, Chertow G for the FHN Trial Group. Prevalence and correlates of cognitive impairment in the Frequent Hemodialysis Network (FHN) Trials. Journal of the American Society of Nephrology. 20:677-678A, 2009.

## **ABSTRACTS SUBMITTED**

## **PRESENTATIONS AND POSTERS**

Suri R, Nesrallah G, Mainra R, Garg A, Lindsay R, Greene T, Daugirdas J. Daily hemodialysis - a systematic review. American Society of Nephrology Renal Week, Philadelphia, PA, November 8-13, 2005.

Daugirdas JT, Depner TA, Greene T, Kuhlmann MK, et al. SAN (Surface Area Normalized) values for single-pool and standard Kt/V. American Society of Nephrology Renal Week, San Diego, CA, November 14-19, 2006.

Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of in-center daily hemodialysis. American Society of Nephrology Renal Week, San Diego, CA, November 14-19, 2006.

Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of home nocturnal hemodialysis. American Society of Nephrology Renal Week, San Diego, CA, November 14-19, 2006.

- Greene T, Daugirdas J, Depner T, Gotch F, Kuhlmann M, Kotanko P, Star R and the FHN Trial Group. Clearance and volume removal values for target dialysis prescription in the Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology Renal Week, San Diego, CA, November 14-19, 2006.
- Frequent Hemodialysis Network (FHN) Trial Group. Progress of the Frequent Hemodialysis Network randomized trial of in-center daily hemodialysis. National Kidney Foundation 2007 Spring Clinical Meetings, Orlando, FL, April 10-14, 2007.
- Frequent Hemodialysis Network (FHN) Trial Group. The Frequent Hemodialysis Network randomized trial of home nocturnal hemodialysis: change of the trial design. National Kidney Foundation 2007 Spring Clinical Meetings, Orlando, FL, April 10-14, 2007.
- Frequent Hemodialysis Network (FHN) Trial Group, Gassman J, Rocco M, Beck G, Larive B, Sherer S, Klinger A, Eggers P. Changing a protocol early in a trial's Vanguard phase: The Frequent Hemodialysis Network Home Nocturnal Hemodialysis Trial. 28<sup>th</sup> Annual Meeting of the Society for Clinical Trials, Montreal, Canada, May 20-23, 2007.
- Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of in-center daily hemodialysis. American Society of Nephrology Renal Week, San Francisco, CA, November 1-4, 2007.
- Frequent Hemodialysis Network Trial Group. The Frequent Hemodialysis Network multicenter randomized trial of home nocturnal hemodialysis. American Society of Nephrology Renal Week, San Francisco, CA, November 1- 4, 2007.
- Sergeyeva O, Gorodetskaya I, Champagne J, Sherer S, Carter M for the FHN Trial group. Recruitment successes and challenges in the Frequent Hemodialysis Network (FHN) Daily Trial. American Society of Nephrology Renal Week, San Francisco, CA, November 1- 4, 2007.
- Depner T, Daugirdas J, Greene T, Schulman G for the FHN Trial Group. Improved Simplified Formula for Estimating Hemodialysis Standard Kt/V<sub>urea</sub>. American Society of Nephrology Renal Week, Philadelphia, PA November 2008.
- Depner T, Daugirdas J, Greene T, Schulman G. Improved Simplified Formula for Estimating Hemodialysis Standard Kt/V<sub>urea</sub>. American Society of Nephrology Renal Week, Philadelphia, PA, November 5-9, 2008.
- Beddhu S, Ma, X, Cheung AK. Is Alkaline Phosphatase (AP) a Therapeutic Target in Hemodialysis (HD) Patients? American Society of Nephrology Renal Week, Philadelphia, PA, November 5-9, 2008.
- Daugirdas J, Depner T, Greene T, Levin NW, Chertow G, Rocco M and the FHN Trial Group. A model of frequent nocturnal dialysis with reduced urea generation (G) at night significantly affects urea distribution volume, G, and Kt/V. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Daugirdas J, Depner T, Greene T, Levin NW, Chertow G, Rocco M and the Frequent Hemodialysis Network (FHN) Trial Group. The "Standard" Kt/V inadvertently reduces the contribution of residual kidney urea clearance by an average of 25–30%. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.

- Kaysen G, Larive B, Lindsay RM, Rocco M, Daugirdas J, Chertow G, Eggers P and the FHN Trial Group. Relationship between body composition and physical performance at initiation of Frequent Hemodialysis Study (FHN). American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Kaysen G, Raimann J, Liu L, Abbas S, Ramos R, Ulloa D, Tarallo M, Gale B, Larive B, Kotanko P, Levin NW. Assessment of intracellular water in hemodialysis patients by single-frequency and bioimpedance spectroscopy. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Pipkin M, Larive B, Rocco M, Stokes J, Suri R, Lockridge R, Eggers P for the FHN Trial Group. Barriers to recruitment for home hemodialysis. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Raimann J, Liu L, Abbas S, Ramos R, Ulloa D, Tarallo M, Kaysen G, Gale B, Larive B, Kotanko P, Levin N and the FHN Trial Group. Assessment of intracellular water in hemodialysis patients by single-frequency and bioimpedance spectroscopy. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Rocco M, Kliger A, Beck G, Eggers P and the FHN Trial Group. Baseline results from the Frequent Hemodialysis Network Nocturnal Trial. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Sergeyeva O, Gorodetskaya I, Ramos R, Figuracion E, Ulloa D, Riley J, Moossavi S, Luan J, Suter M, Rashid M, Sanz G, Schmuck M, Chertow G, Levin NW. Challenges to enrollment in a randomized clinical trial of frequent in-center hemodialysis. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Suri R, Larive B, Hall Y, Pierratos A, Gorodetskaya I, Garg A, Beck G, Eggers P, Kliger A and the Frequent Hemodialysis Network (FHN) Trial Group. Burden on caregivers as perceived by hemodialysis patients in the FHN Trials. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009.
- Tamura M, Larive B, Unruh M, Stokes J, Beck GJ, Mehta R, Chertow G for the FHN Trial Group. Prevalence and correlates of cognitive impairment in the Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology Renal Week, San Diego, CA, October 27 – November 1, 2009. Levin N. NIH Frequent Short Daily Trial. 30<sup>th</sup> Annual Dialysis Conference, Seattle, WA, March 6-9, 2010.
- Rocco M. NIH Nocturnal Trial. 30<sup>th</sup> Annual Dialysis Conference, Seattle, WA, March 6-9, 2010.
- Kliger A. Update from the Frequent Hemodialysis Network. National Kidney Foundation Spring Clinical Meetings, Orlando, FL, April 13-17, 2010.
- Gassman J, MacKrell J, Larive B, Pipkin M for the FHN Trial Group. Use of a standard Microsoft Access database to collect local site pre-enrollment data in the Frequent Hemodialysis Network (FHN) Nocturnal Study. The Society for Clinical Trials 31<sup>st</sup> Annual Meeting, Baltimore, MD, May 16-19, 2010.
- Kliger AS, Levin NW, Rocco MV and the Frequent Hemodialysis Network (FHN) Trial Group. Frequent Hemodialysis Network Daily and Nocturnal Hemodialysis Randomized Clinical



- Trials: Primary results. American Society of Nephrology Renal Week, Denver, CO, November 18 – November 21, 2010.
- Kliger AS. Frequent Hemodialysis Network Daily Hemodialysis Randomized Clinical Trial. International Conference on Dialysis, Miami, FL, January 26 – January 28, 2011.
- Kliger AS. Background and overall design of the Frequent Hemodialysis Network (FHN) Trial. Annual Dialysis Conference, Phoenix, AZ, February 20 – February 22, 2011.
- Chertow G. Findings from the Daily In-Center Dialysis FHN Trial. Annual Dialysis Conference, Phoenix, AZ, February 20 – February 22, 2011.
- Chan C. Findings from the Nocturnal Home Dialysis FHN Trial. Annual Dialysis Conference, Phoenix, AZ, February 20 – February 22, 2011.
- Pierratos, A. What did we learn from the FHN Trial? Annual Dialysis Conference, Phoenix, AZ, February 20 – February 22, 2011.
- Chan C. Factors influencing change of left ventricular mass in the Frequent Hemodialysis Network Trials. World Congress of Nephrology, Vancouver, BC, April 8 – April 12, 2011.
- Kliger AS. Quotidian Dialysis: The Frequent Hemodialysis Network Trials. World Congress of Nephrology, Vancouver, BC April 8 – April 12, 2011.
- Kliger AS, Beck GJ, Rocco MV. Frequent Hemodialysis Network Daily and Nocturnal Hemodialysis Randomized Clinical Trials. National Kidney Foundation, Las Vegas, NV, April 27 – April 30, 2011.
- Gassman, J. Adding cohort follow-up to the end of a randomized trial. Society for Clinical Trials, Vancouver, BC, May 15 – May 18, 2011.
- Levin NW. Why was the NIH daily dialysis RCT successful? 20<sup>th</sup> International Vicenza Course on Hemodialysis, Vincenza, Italy June 7-10, 2011.
- Rocco MV. Nocturnal dialysis: the FHN Trial. 20<sup>th</sup> International Vicenza Course on Hemodialysis, Vincenza, Italy June 7-10, 2011.
- Raimann JG, Liu L, Abbas S, Zhu F, Kaysen GA, Kotanko P, Levin NW and the FHN Trial Group. Assessment of intracellular volume with single- and multi-frequency whole-body bioimpedance analysis in patients undergoing dialysis 6 times and 3 times per week. European Renal Association, Prague, CZ, June 23 – June 26, 2011.
- Chan C. Effects on ventricular volumes by frequent hemodialysis: results from the Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Daugirdas JT. Effects of frequent hemodialysis on measures of chronic kidney disease mineral and bone disorder: the Frequent Hemodialysis Network Daily and Nocturnal Trials. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Hall Y. Effects of six versus three times per week hemodialysis on physical performance, health and functioning: Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Kliger A. Frequent Hemodialysis Network: New secondary outcomes. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.

- Kliger A. Future of intense hemodialysis. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Kotanko P. Temporal evolution of systolic and diastolic blood pressure in the Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Ornt D. The impact of frequent in-center versus conventional hemodialysis on anemia: The Frequent Hemodialysis Network Trial. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Raimann J. Ancillary study to the Frequent Hemodialysis Network (FHN) Trial: cross-sectional assessment of Vitamin C concentrations in chronic hemodialysis patients at baseline. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Suri R. Risk of vascular access events in the FHN Daily Trial. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Unruh ML. Effects of six versus three times per week hemodialysis on depressive affect and mental health: Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 8-13, 2011.
- Chan C. Outcomes in the Frequent Hemodialysis Network (FHN): cardiovascular and blood pressure changes. 14<sup>th</sup> International Conference on Dialysis, Palm Harbor, FL, January 25-27, 2012.
- Daugirdas JT, Chertow GM, Larive B, Pierratos A, Greene TH, Ayus JC, Kendrick CA, James SH, Miller BW, Schulman G, Salusky IB, Kliger AS and the Frequent Hemodialysis Network (FHN) Trial Group. 14<sup>th</sup> International Conference on Dialysis, Palm Harbor, FL, January 25-27, 2012.
- Kaysen GA. The effect of frequent hemodialysis on nutrition and body composition. 14<sup>th</sup> International Conference on Dialysis, Palm Harbor, FL, January 25-27, 2012.
- Rocco M, Dialysis after the FHN trials: volume control, dose or what else? 14<sup>th</sup> International Conference on Dialysis, Palm Harbor, FL, January 25-27, 2012.
- Daugirdas JT, Leypoldt JK, Akonur A, Greene T, Depner TA and the FHN Trial Group. Improved equation for estimating single-pool Kt/V at higher dialysis frequencies. 32<sup>nd</sup> Annual Dialysis Conference, San Antonio, TX, February 26-28, 2012.
- Kliger A. Frequent Hemodialysis Network update. 32<sup>nd</sup> Annual Dialysis Conference, San Antonio, TX, February 26-28, 2012.
- Tamura MK, Larive B, Unruh ML, Nissenson A, Mehta RL, Eggers P, Gassman J, Stokes JB for the FHN Trials Group. The effect of frequent hemodialysis on cognitive function in the Frequent Hemodialysis Network (FHN) Trials. Paul Beeson Scholars Meeting, Washington, D.C., September 19-22, 2012.
- Chan CT, Chertow GM, Daugirdas JT, Greene TH, Kotanko P, Larive B, Pierratos A, Stokes JB and the FHN Trial Group. Effects of daily hemodialysis on heart rate variability: results from the Frequent Hemodialysis Network (FHN) Daily Trial. American Society of Nephrology “Renal Week”, San Diego, CA, October 30-November 4, 2012.

- Daugirdas JT, Greene TH, Rocco MV, Kaysen GA, Depner TA, Levin NW, Chertow GM, Ornt DB, Kliger AS and the FHN Trial Group. Effect of frequent dialysis on residual kidney function in the Frequent Hemodialysis Network (FHN) Nocturnal and Daily Trials. American Society of Nephrology “Renal Week”, San Diego, CA, October 30-November 4, 2012.
- Kotanko P, Stokes JB, Garg AX, Depner TA, Pierratos A, Chan CT, Levin NW, Greene T, Larive B, Beck GJ, Gassman JJ, Kliger AS and the FHN Trial Group. Intradialytic hypotension in 6x weekly in-center hemodialysis: Results from the randomized Frequent Hemodialysis Network Daily Trial “Renal Week”. American Society of Nephrology, San Diego, CA, October 30-November 4, 2012.
- Raimann JG, Daugirdas JT, Gotch FA, Greene T, Kaysen GA, Kliger AS, Lindsay RM, Levin NW and the FHN Trial Group. Treatment effect of frequent hemodialysis on interdialytic weight gain and extracellular volume and their relation to changes in left ventricular mass: Frequent Hemodialysis Network (FHN) Daily Trial. American Society of Nephrology “Renal Week”, San Diego, CA, October 30-November 4, 2012.
- Kim J, Unruh ML, Larive B, Eggers PW, Garg AX, Gassman JJ, Finkelstein FO, Kimmel PL, Chertow GM and the FHN Trial Group. The impact of frequent hemodialysis on sleep quality: Frequent Hemodialysis Network (FHN) Trials. American Society of Nephrology “Renal Week”, San Diego, CA, October 30-November 4, 2012.
- Levin NW. Perspective on FHN: what are the practical lessons? 15th International Conference on Dialysis, San Juan, Puerto Rico, January 23-25, 2013.
- Kliger AS. Debate: FHN results do not support more frequent hemodialysis. 33rd Annual Dialysis Conference, Seattle, WA, March 9-12, 2013.
- Raimann JG, Daugirdas J, Gotch F, Greene T, Kaysen G, Kliger A, Lindsay R, Levin N and the FHN Trial Group. Use of a novel method for calculating interdialytic fluid overload AUC; treatment effects and relationship to changes in left ventricular mass: A secondary analysis of the Frequent Hemodialysis Network (FHN) Trials. World Congress of Nephrology, Hong Kong, China, May 31-June 4, 2013.
- Daugirdas JT, Larive B, Depner TA, Pierratos A, Greene T, Lockridge RS, Ayus JC, Rocco MV, Chertow GM, Leypoldt JK, Akonur A, Miller BW and the FHN Trial Group. The magnitude of phosphorus mobilization during dialysis in the Frequent Hemodialysis Network (FHN) Daily Trial was patient-specific. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Chertow GM, Levin NW, Beck GJ, Eggers PW, Greene T, Larive B, Rocco MV, Kliger AS, and the FHN Trial Group. Effects of randomization to frequent in-center hemodialysis on long-term mortality: Frequent Hemodialysis Daily Trial. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Rocco MV, Daugirdas JT, Greene T, Lockridge RS, Pierratos A, Larive B, Beck GJ, Kliger AS and the FHN Trial Group. Effects of randomization to frequent nocturnal hemodialysis on long-term mortality: Frequent Hemodialysis Network Nocturnal Trial. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.

- Greene T, Daugirdas JT, Chertow GM, Levin NW, Rocco MV, Beck GJ, Klinger AS and the FHN Trial Group. Bayesian interpretation of the estimated treatment effects on mortality in the Daily and Nocturnal Frequent Hemodialysis Trials (FHN). American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Beck GJ, Chertow GM, Eggers PW, Greene T, Larive B, Levin NW, Rajagopalan S, Rocco MV, Sanz J, Tran T, Kramer C, Klinger AS and the FHN Trial Group. Influence of methodology on left ventricular mass measurement by cardiac magnetic resonance in the Frequent Hemodialysis Network (FHN) Nocturnal Trial. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Dixon BS, VanBuren JM, Oleson JJ, Lockridge RS, Rodrigue JR, Paulsen JS, Stokes JB. Effect of frequent nocturnal hemodialysis or renal transplantation on cognition. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Klinger AS. SDD versus NHD: SDD is better. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Chan CT. SDD versus NHD: NHD is better. American Society of Nephrology “Renal Week”, Atlanta, GA, November 5-10, 2013.
- Beck GJ, Larive B, Rajagopalan S, Rocco M, Tran T, Klinger A and the Frequent Hemodialysis Network (FHN) Trial Group. Sequential versus concurrent readings of cardiac MRIs in a clinical trial. 35th Annual Meeting Society for Clinical Trials, Philadelphia, PA, May 18-21, 2014.
- Chertow GM, Levin NW, Beck GJ, Daugirdas JT, Eggers PW, Klinger AS, Larive B, Rocco MV, Greene T. Long-term effects of frequent in-center hemodialysis: FHN Daily Trial. 51st ERA-EDTA Congress, Amsterdam, The Netherlands, May 31-June 3, 2014.
- Rocco M, Daugirdas J, Greene T, Lockridge R, Chan C, Pierratos A, Lindsay R, Larive B, Chertow G, Beck G, Eggers P, Star R, Klinger A for the FHN Trial Group; Mortality during extended follow-up in the Frequent Hemodialysis Network Nocturnal Trial. 51st ERA-EDTA Congress, Amsterdam, The Netherlands, May 31-June 3, 2014.
- Raimann JG, Ferrario M, Larive B, Peirratos A, Thijssen S, Rajagopalan S, Greene T, Beck GJ, Chan CT, Kotanko P and the FHN Trial Group. Evaluation of non-linear heart rate variability parameters and their associations to cardiac function, fluid accumulation and physical performance in the Frequent Hemodialysis Network (FHN) Daily Trial. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 13-16, 2014.
- Raimann JG, Chan CT, Daugirdas JT, Depner TA, Gotch FA, Greene T, Kaysen GA, Klinger AS, Kotanko P, Lindsay RM, Rocco MV, Chertow GM, Levin NW and the FHN Trial Group. Low predialysis serum sodium modifies the effect of hemodialysis frequency on left ventricular mass: the Frequent Hemodialysis Network (FHN) Trial. American Society of Nephrology “Renal Week”, Philadelphia, PA, November 13-16, 2014.
- Chan CT, Chertow GM, Rocco MV, Levin NW, Beck GJ, Kaysen GA, Klinger AS, Larive B and the FHN Trial Group. The role of cardiomyocyte apoptosis in the pathogenesis of left ventricular hypertrophy: Results from the Frequent Hemodialysis Network (FHN). American Society of Nephrology “Renal Week”, Philadelphia, PA, November 13-16, 2014.