



Why More Frequent **HOME** **HEMODIALYSIS?**

Because home is where the heart is ...

Health Benefits

Lifestyle Benefits

Designed for Home

System One is the **ONLY** truly portable system cleared for home use during the day or overnight while patient sleeps.



What are the Major Components?

System One Cyclor

Simple interface, easy to use
Portable, dialyze when and
where you want
24/7 technical support



PureFlow SL

Integrated dialysate mixing
Simple plumbing connections



Cartridge

Simple drop-in

cartridge

Easy wipe-down

disinfection



Nx2me

Connected Health

Automated flowsheets

Cycler heads-up display

Context sensitive help



What the experts say

more than 90% of nephrologists
said they would choose a home therapy for
themselves if faced with dialysis, with
hemodialysis as the preferred option ¹
home

“I prescribe more frequent hemodialysis with NxStage because I was extremely unhappy with the results I have seen with my in-center patients. I believe more frequent hemodialysis actually makes people feel better and hopefully will keep them alive longer.”

Dr. Michael Kraus nephrologist for over 20 years.
Dr. Kraus is the Senior Medical Advisor of NxStage Medical, Inc.

1. Perceptions about renal replacement therapy among nephrology professionals. Schiller B, Neitzer A, Doss S. Nephrol News Issues. 2010 Sep;24(10):36, 38, 40.

When vascular access is exposed to more frequent use, infection of the site, and other access related complications may also be potential risks.



Significant Cardiovascular Benefits

Frequent Hemodialysis Associated with the following
12-month Improvements

12%
%

**Reduction in
left
ventricular mass**

20%
%

**Fewer
hypotensive
episodes ¹**

7%
%

**Decrease in systolic
blood pressure**

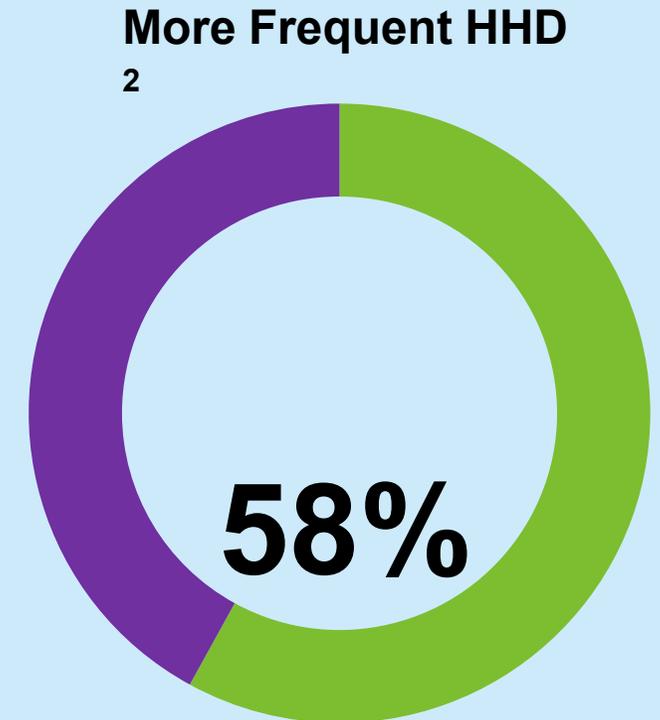
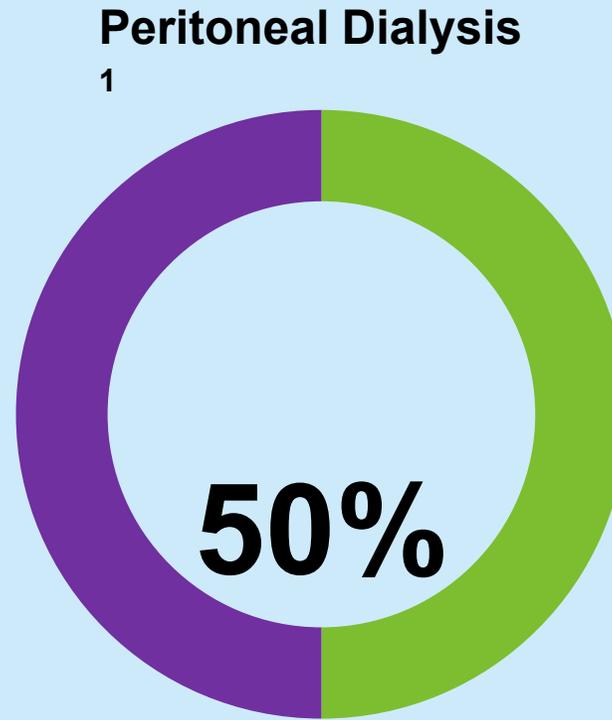
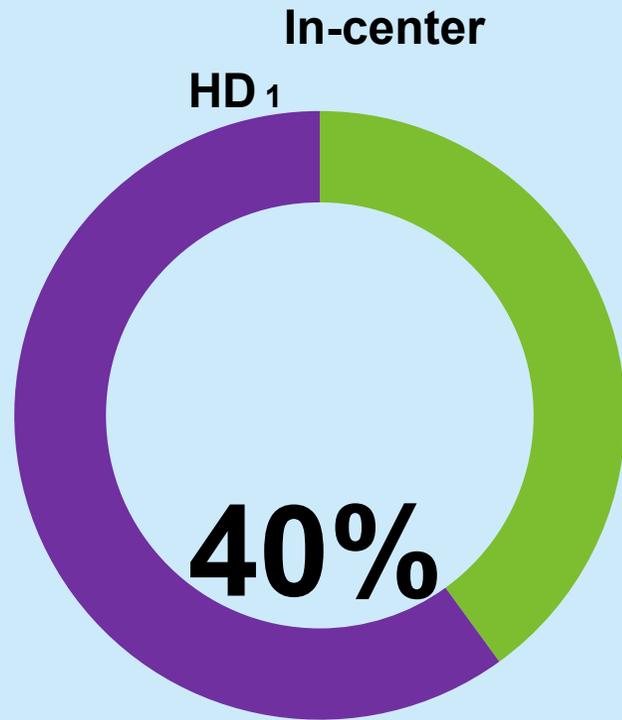
¹

32%
%

**Less
antihypertensives
consumed ¹**

1. FHN Trial Group, Chertow GM, Levin NW, et al. In-center hemodialysis six times per week versus three times per week. N Engl J Med. 2010;363(24):2287-2300. doi:10.1056/NEJMoa1001593. 2. Rocco MV, Lockridge RS, Beck GJ, et al. The effects of frequent nocturnal home hemodialysis: the Frequent Hemodialysis Network Nocturnal Trial. Kidney Int. 2011;80(10):1080-1091. doi:10.1038/ki.2011.213.

5-Year Survival By Treatment Type



1. USRDS 2015 Annual Data Report: Data Source: Reference Table 6.3. Adjusted survival (%) by (a) treatment modality and incident cohort year (year of ESRD onset), and (b) age, sex, race, and primary cause of ESRD, for ESRD patients in the 2008 incident cohort (initiating ESRD treatment in 2008). 2. Data source: NxStage more frequent home hemodialysis patient data on file.

What Patients Report... and studies confirm.



"When I was in-center, after each treatment I was tired, I would go home and sleep for 8 hours. My motorcycle just

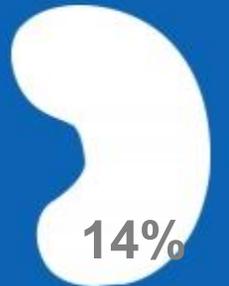


Improved **APPETITE**



More **ENERGY & Vitality**

sat in my parent's garage. I didn't see my grandkids. When I started more frequent home hemodialysis with System One I started to feel myself coming back from this dark place. My family recognizes me as being back. They see the life in me again."
 ~ Don NxStage



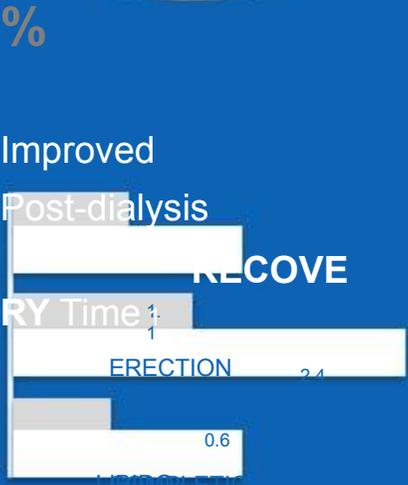
More Likely to Receive a **TRANSPLANT**



Ability to Work or Attend School



Improved **SLEEP** Quality



Improved **SEXUAL** Function 4

Sexual aspects on D-HD in 12 males <55 years old

Not everyone will experience the reported benefits of home and more frequent hemodialysis. All forms of hemodialysis involve some risks. When vascular access is exposed to more frequent use, Infection



What NxStage patients say

"My therapy doesn't define me."

"I am the wife, mom, and partner again, not just a patient."

Tina performs home hemodialysis over night while she sleeps, 6 nights a week.

"I have energy I haven't had in a long time."

"Now that I dialyze while I sleep, I can spend the evenings with my family...
When I get up in the morning, I can disconnect and tackle my day."

Henning performs home hemodialysis overnight while he sleeps, 4 nights a week.

When vascular access is exposed to more frequent use, infection of the site, and other access related complications may also be potential risks. Certain risks associated with hemodialysis treatment are increased when performing

14 MILLION treatments strong

8000+ patients



*NxStage data on file



What's New in **HOME** Dialysis?



Big Win for Patients

Introducing: Solo Clearance for NxStage System One.

The option to dialyze at home without a care

partner during waking hours

- Greater control and ownership of self-care
- Increased independence¹
- More flexibility in treatment scheduling²
- Lessened feeling of reliance and/or burden on friends and family²
- Avoid feelings of helplessness commonly experienced by patients cared for in-center³

94203 Yau, M., Carver, V., Alvarez, J., Black, G.A., Chertow, G.M. Understanding barriers to home-based and self-care in-center hemodialysis. Hemodial Int. 2016 Apr;20(2):235-41. frequent

hemodialysis to patients associated with hemodialysis treatment are increased when performing solo home

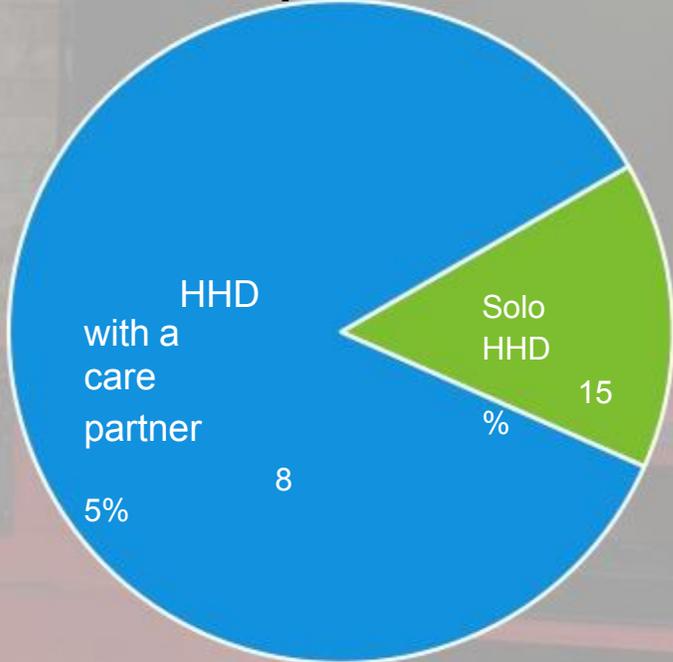
hemodialysis because no one is present to help the patient respond to health emergencies

**“ I made it very
clear
– I would
learn
fiercely everything
myself.
I feel that it is
important that I am
you
own your
own
treatment**

Patient Preference Survey

Key Findings

Patient Experience



*NxStage data on file

15% of patients

ALREADY

confidently and

competently perform

independent,

Solo Home

hemodialysis*



Therapy options that fit patients' lifestyles



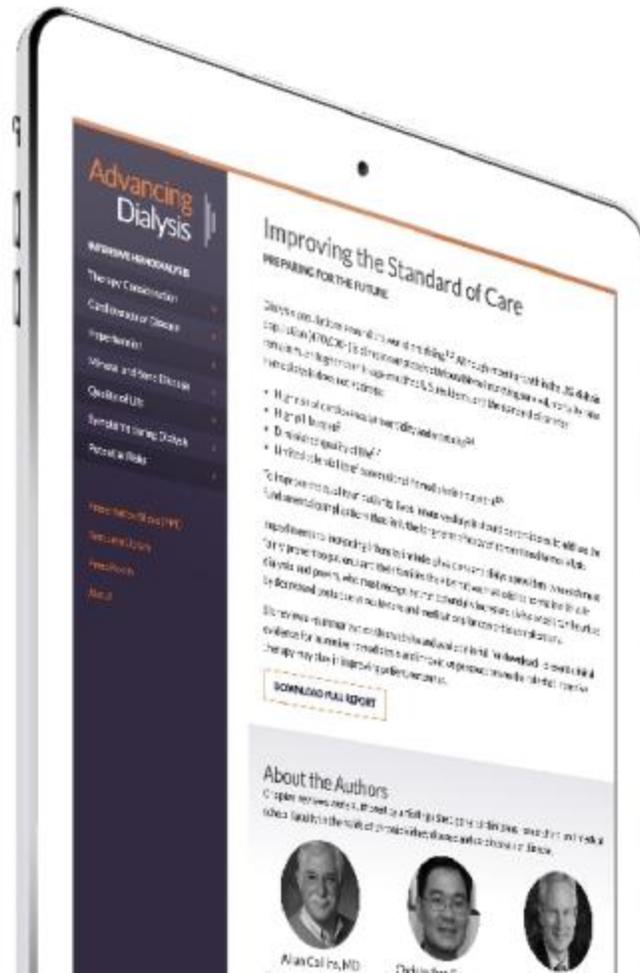
Home hemodialysis during waking hours
either solo or with a care partner



Home nocturnal hemodialysis while
patient and care partner sleep

Certain risks associated with hemodialysis treatment are increased when performing solo home hemodialysis because no one is present to help the patient respond to health emergencies. Certain risks associated with hemodialysis treatment are increased when performing nocturnal therapy due to the length of treatment

Improving the Standard of Care While Preparing for the Future



www.AdvancingDialysis.org

What could intensive hemodialysis do for your patients?

Find out here.

A new website presents a review of more than 15 years of medical evidence on intensive hemodialysis and innovative perspectives on how it can fundamentally change the standard of care in conventional hemodialysis.

Easy to access, download and share, it offers:

- Clinical evidence overview
- Full article access
- Insightful charts and figures
- Author commentaries and slides

Discover insights that could impact how you present treatment options to your ESRD patients.



Why NxStage?



Why choose NxStage for More Frequent Home



1. **Better patient outcomes –**
2. **The most prescribed** home hemodialysis machine in the U.S. **clinical and lifestyle benefits** 1-7
 - **Simple, flexible, portable therapy**
3. **Good for the earth – 50% reduction** in carbon footprint 8
4. **Therapy beyond home** into the Skilled Nursing Facility

When it comes to home hemodialysis machines you have options.

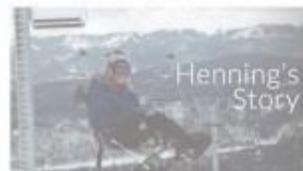
The MOST prescribed HOME hemodialysis machine in the U.S.



NxStage System One™ with PureFlow™ SL

References: 1. In-center water calculations based on 500 mL/min DFR, 220 minute treatment, 109 L of dialysate per treatment, 3 treatments per week. This simulation uses a 3:1 ratio for RO systems. 2. Home hemodialysis calculations based on 190 mL/min DFR, 30 L, 158 minute treatment, 30L of dialysate per treatment, 5 treatments per week. This simulation uses a 1:1 ratio for DI systems. 3. Connor et al, Hemo Int 15:39-51, 2011: Lower Green House Gas emissions when comparing frequent HHD with NxStage vs. 3x weekly in-center. Note: three-times weekly in-center hemodialysis (ICHHD) has a carbon footprint of 3.8 tons of annual GHG emissions. Meanwhile, the three-hour treatments on a 5 to 6 days a week schedule using the NxStage

Patient Stories



Don

Favorite food: I love Mexican food; I will take a good enchilada any day of the week.

Favorite hobby: I enjoy playing golf, and now that my energy levels are back I can walk all 18 holes!

Favorite place to dialyze: I have a man cave set-up for dialysis, complete with TV, tunes and games.

Most interesting place dialyzed: Thanks to the portability of the System One I got to dialyze on a cruise ship.

Interesting fact about you: I officiate high school basketball games. I love chasing the kids up and down the court.

Who are your local patients who have or could benefit from home hemodialysis?

SIMPLE
FLEXIBLE
PORTABLE
E

10 steps closer to home

A brief overview of System One setup

at home



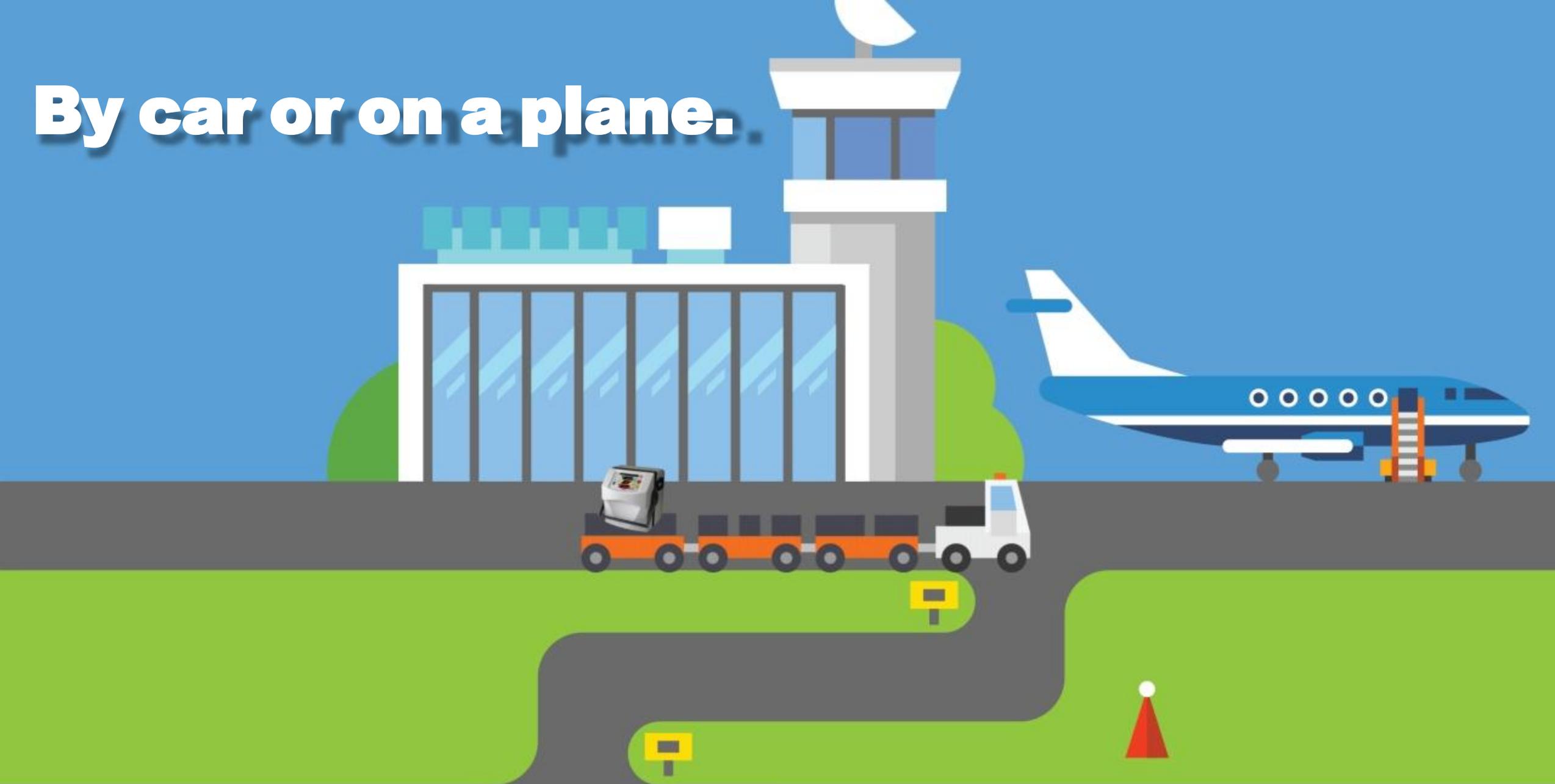
while you sleep



when you travel



By car or on a plane.



Clinical References

1. Jaber BL, Lee Y, Collins AJ, et al. Effect of daily hemodialysis on depressive symptoms and post dialysis recovery time: interim report from the FREEDOM (Following Rehabilitation, Economics and Everyday-Dialysis Outcome Measurements) Study. *Am J Kidney Dis*. 2010;56(3):531-539.
2. Spanner E, Suri R, Heidenheim AP, Lindsay RM. The impact of quotidian hemodialysis on nutrition. *Am J Kidney Dis*. 2003;42(1 suppl):30-35
3. Finkelstein FO, Schiller B, Daoui R, et al. At-home short daily hemodialysis improves the long-term health-related quality of life. *Kidney Int*. 2012;82(5): 561-569.
4. Pinciaroli, AR, Results of Daily Hemodialysis in Catanzaro:12-Year Experience With 22 Patients Treated For More Than One Year. *Home Hemodial Int*, Vol. 2, 12 – 17, 1998
5. Weinhandl E, Liu J, Gilbertson D, Arneson T, Collins A. Transplant incidence in frequent hemodialysis and matched thrice-weekly hemodialysis patients. Poster presented at National Kidney Foundation Spring Clinical Meeting, 2012.
6. Kraus MA, Cox CG, Summitt CL, et al. Work and travel in a large Short Daily Hemodialysis (SDHD) program. Abstract presented at American Society of Nephrology Annual Conference, 2007.
7. Jaber BL, Schiller B, Burkart JM, et al. Impact of short daily hemodialysis on restless legs symptoms and sleep disturbances.

Risks and Responsibilities

The reported benefits of home hemodialysis (HHD) may not be experienced by all patients.

The NxStage System is a prescription device and, like all medical devices, involves some risks. The risks associated with hemodialysis treatments in any environment include, but are not limited to, high blood pressure, fluid overload, low blood pressure, heart-related issues, and vascular access complications. When vascular access is exposed to more frequent use, infection of the site, and other access related complications may also be potential risks. The medical devices used in hemodialysis therapies may add additional risks including air entering the bloodstream, and blood loss due to clotting or accidental disconnection of the blood tubing set.

Home hemodialysis with the NxStage System during waking hours may not require a care partner, provided a physician and a qualified patient agree that solo home hemodialysis is appropriate. Patients performing nocturnal treatments are required to have a care partner. Care partners are trained on proper operation and how to get medical or technical help if needed.

Certain risks associated with hemodialysis treatment are increased when performing solo HHD because no one is present to help the patient respond to health emergencies. If patients experience needles coming out, blood loss, or very low blood pressure during solo HHD, they may lose consciousness or become physically unable to correct the health emergency. Losing consciousness or otherwise becoming impaired during any health emergency while alone could result in significant injury or death. Additional ancillary devices and training are required when performing solo HHD.

Certain risks associated with hemodialysis treatment are increased when performing nocturnal therapy due to the length of treatment time and because therapy is performed while the patient and care partner are sleeping. These risks include, but are not limited to, blood access disconnects and blood loss during sleep, blood clotting due to slower blood flow and/or increased treatment time, and delayed response to alarms when waking from sleep.

Patients should consult their doctor to understand the risks and responsibilities of performing these therapies using the NxStage System.



350 Merrimack Street • Lawrence, MA 01843 • www.nxstage.com

© 2018 NxStage Medical, Inc. NxStage is a registered trademark of NxStage Medical, Inc. CAUTION: Federal law restricts this device to sale by or on the order of a physician. APM2476 Rev. D