



Nx2me™

Connected Health

Connects clinicians with their home hemodialysis patients, enabling timely exchange of health information and improving the patient experience

Why Connected Health?



Nx2me Overview



Why Connected Health?

Dialysis population growth will challenge the system

2025 Dialysis Outlook¹⁻³



References: Data sources for calculation: 1. McCullough KP, Morgenstern H, Saran R, Herman WH, Robinson BM. Projecting ESRD Incidence and Prevalence in the United States through 2030. *J Am Soc Nephrol.* 2019;30(1):127-135. 2. Census Bureau 2017 National Population Projections Dataset-1. 3. USRDS 2019 Reference Table D.6: Counts of point prevalent ESRD patients, by mode of therapy: all dialysis, December 31 point prevalent patients, by age, sex, race, ethnicity, & primary diagnosis.



Why Connected Health?

The government is planning ahead by issuing the Executive Order

- CMS has called for **50%** of dialysis patients to be dialyzing at home by 2025.^{1,2}
- **Payment incentives** for dialysis centers and physicians who **increase utilization** of transplantation and home dialysis have been outlined

How will you
get there?

50%
Home by 2025

References: 1. U.S. Department of Health and Human Services (HHS). Specialty Care Models To Improve Quality of Care and Reduce Expenditures; A Proposed Rule by the Centers for Medicare & Medicaid Services published 7/18/2019. 2. The percentage of ESRD patients with a functioning transplant has consistently been between 29% - 30% since 2003 (USRDS 2018).



Nx2me Overview

Connected Health plays a key role in reaching 50% by 2025

Nx2me is designed to...



Retention

Clinician Productivity & Efficiency

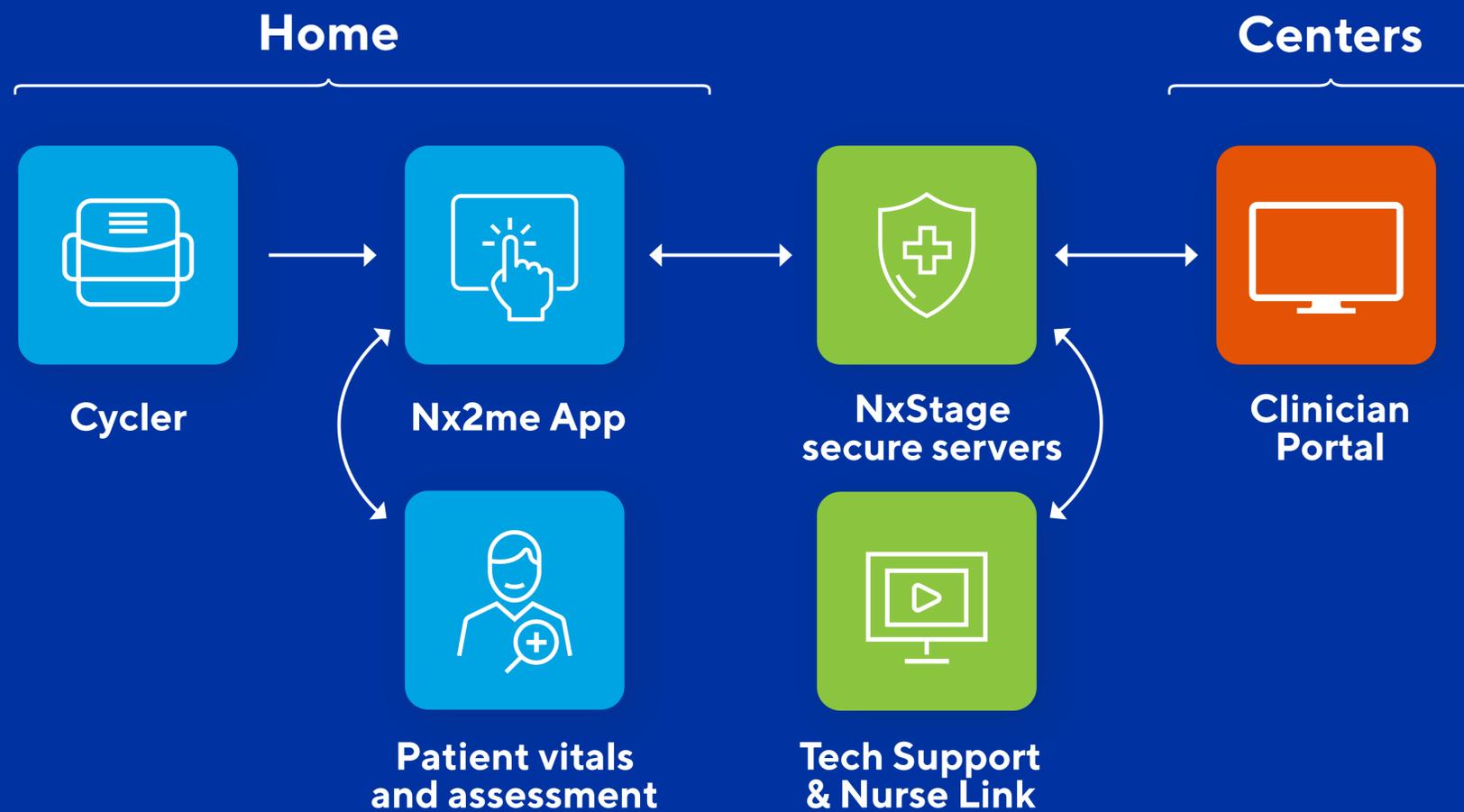
Instill Patient Confidence

Enhance Care Communication



Nx2me Overview

Data captured from patients is available to clinicians and NxStage Technical Support



Nx2me works over a secure Wi-Fi network established at the patient's home. If a patient doesn't have Internet service, a cell data plan is available. All patient information is encrypted and transmitted using secure Internet protocols.



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Nx2me Overview

Nx2me App

With easy-to-use navigation and large displays, Nx2me is designed to give patients more confidence in their ability to perform treatments at home.

Nx2me helps to eliminate tasks performed by the patient (e.g. filling out flowsheets manually) or making tasks easier or less time consuming (e.g. logging blood pressure or weight, ordering supplies, etc).

Data collected by the Nx2me app includes:

- Treatment information directly from the NxStage HHD cyclers*
- Patient weight, blood pressure, and temperature
- Medications taken
- Notes and health assessments

*The Nx2me app does not control the NxStage HHD cycler.



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Nx2me Overview

Nx2me Clinician Portal

Once patients finish a treatment, data recorded in the Nx2me app is transmitted directly to the Nx2me Clinician Portal, where it can be reviewed by clinicians. Treatment records are accessible 24/7.

Nx2me STAGE _Demo Dialysis Center A : 900901
User: Nurse1 Admin | Help | Tools v | Logout

DASHBOARD PATIENTS TREATMENTS NEW MESSAGES EQUIPMENT ADMIN REMOTE VIEW LINK

Flowsheet Status

- 1 New
- 0 Pending
- 0 Call Patient

Flowsheet Statistics

- 2 Flowsheets with ≥ 3 alerts
- 0 Flowsheets with 1 - 2 alerts
- 2 Unconfirmed flowsheets

Patients

- 2 Inactive
- 0 Need Settings defined
- 0 Need Alert Criteria defined

Flowsheet Summary Start Date: 1/1/2019 End Date: 6/30/2019 [View](#)

Status	Alerts	Treatment Date	Patient Name	Date of Birth	Center Patient ID	Flowsheet Status	Treatment Notes	Treatment Duration	Dialysate (Processed/Rx)	Ultrafiltration	Weight (Post/Dry-Rx)	Printed
<input type="checkbox"/>		5/22/2019	DemoPatient, Mark	7/29/1966	11122.1	New		156 min	30.0 / 25.0 L	1.0 L	81.6 / 76.8 kg	
<input type="checkbox"/>	3	2/20/2019	DemoPatient, Chris	2/29/1948	11111	Approved		129 min	28.7 / 25.0 L	3.5 L	77.1 / 76.8 kg	
<input type="checkbox"/>	4	1/27/2019	DemoPatient, Chris	2/29/1948	11111	Approved		113 min	27.0 / 25.0 L	2.7 L	82.8 / 76.8 kg	
<input type="checkbox"/>		1/16/2019	DemoPatient, Nicole	2/12/1944	1234	Approved		27 min	1.1 / 30.0 L	0.0 L	65.0 / 65.0 kg	

1 - 4 of 4 record(s)

Patient List Enrollment Status: Enrolled

Reports	Alerts	Patient Name	Date of Birth	Center Patient ID	NxStage Status	Settings	Last Treatment Date	Nx2me Status	Last Sync Date	Alerts Defined
<input type="checkbox"/>		DemoPatient, Chris	2/29/1948	11111	Active		1/7/2020	Active	1/9/2020	
<input type="checkbox"/>	1	DemoPatient, George	9/29/1959	-	Active		12/9/2019	Inactive	1/9/2020	



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Link & Picture Sharing



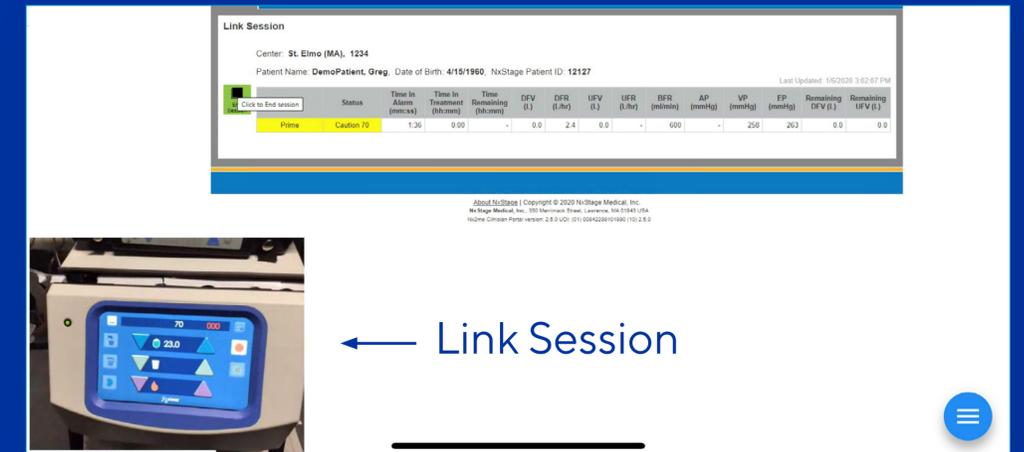
Link

- Video and cyler data streaming allows for faster and more effective support by NxStage Technical Support
- Cyler data streaming enables nurses to have richer, deeper coaching sessions with patients during treatment

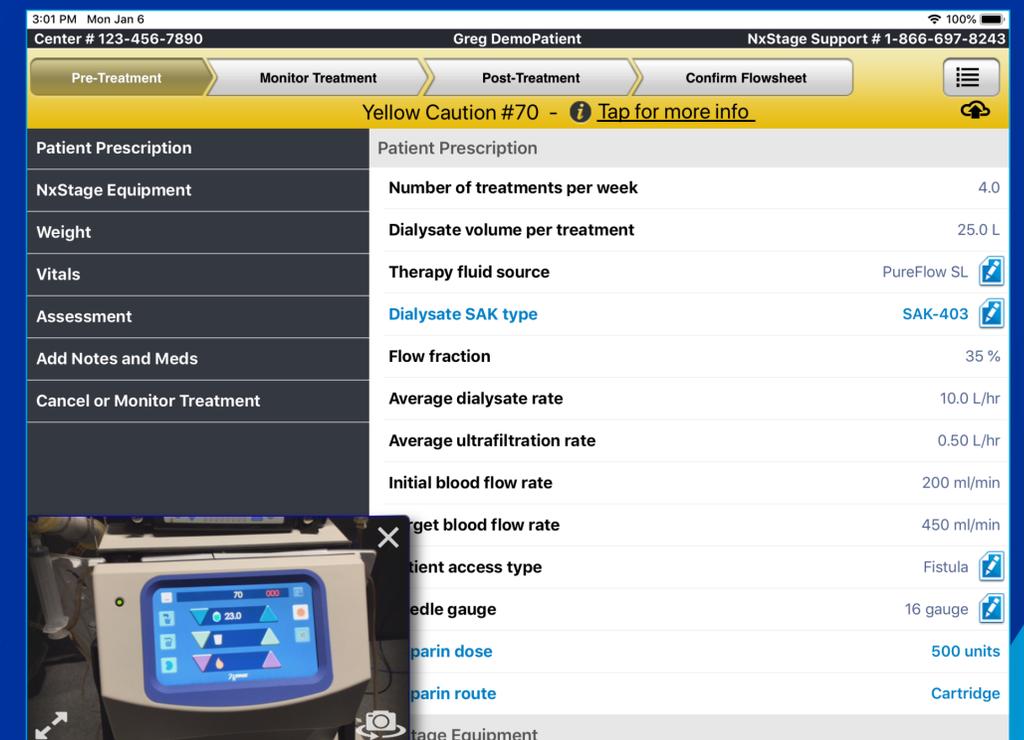


Picture sharing

- Enhances communication with clinician



NxStage Technical Support View



Patient View



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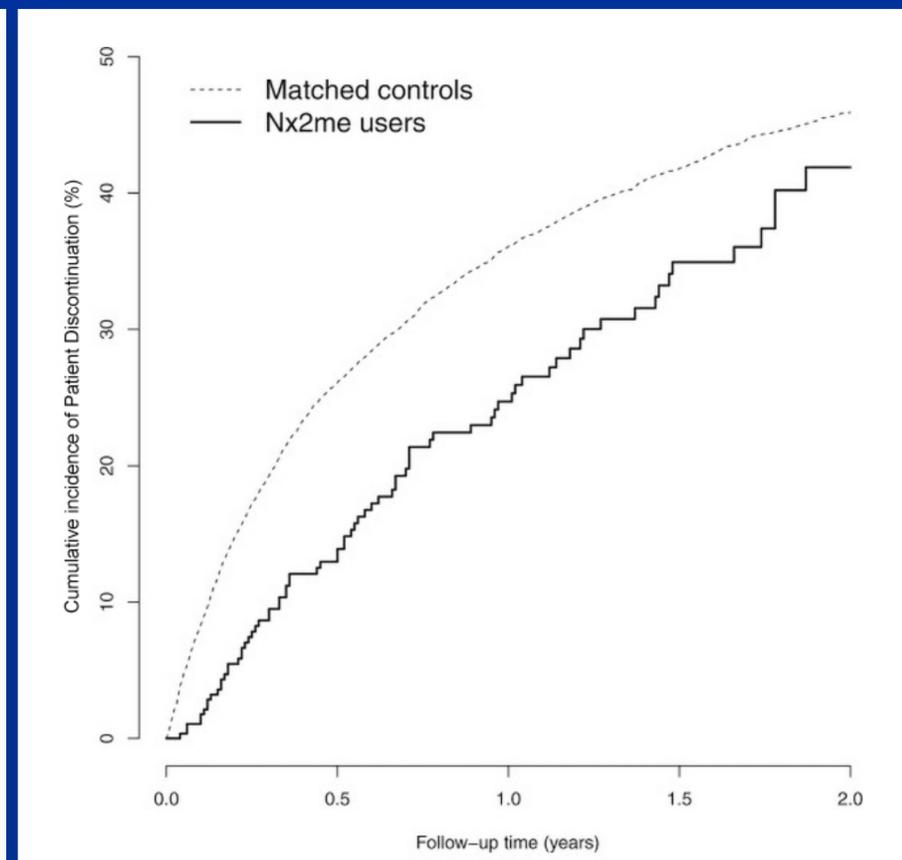
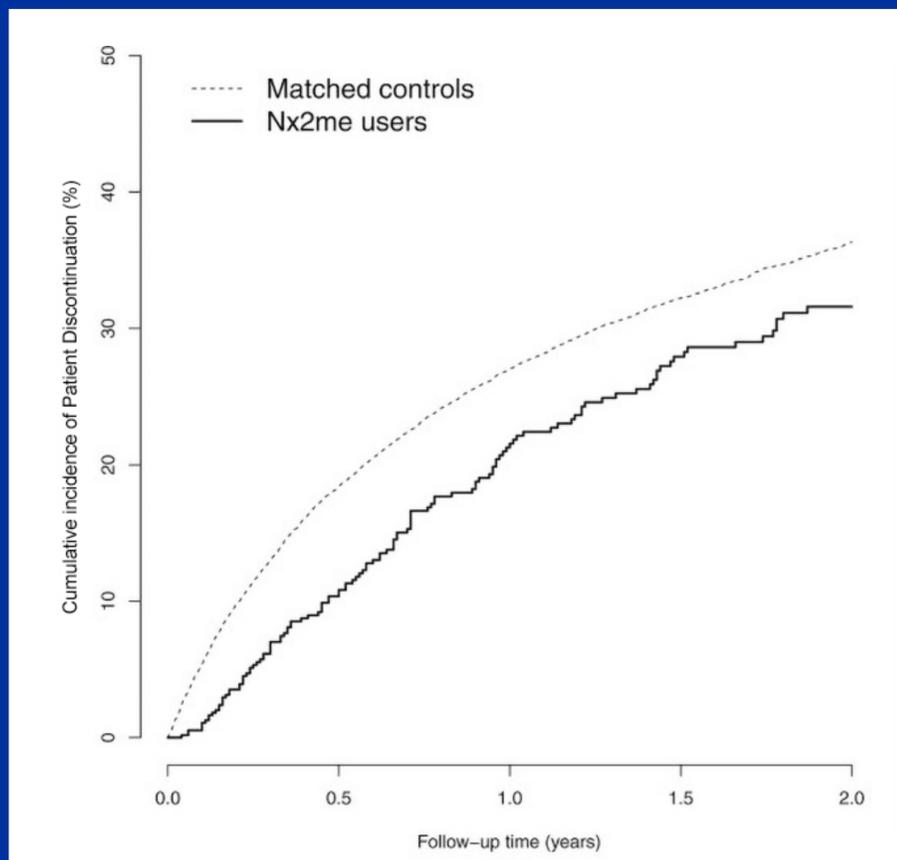


Retention

Nx2me delivers quantifiable benefits such as enhanced therapy retention

All Study Patients

New HHD Patients



29%
Lower therapy
discontinuation rate
(excluding death
and transplant)

Source: Weinhandl ED, et al. Hemodial Int. 2018 Jul;22(3):318-327. doi: 10.1111/hdi.12621.



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Key Benefits

1. Adherence

Clinicians may monitor and support treatment adherence.

2. Early Intervention

Clinicians may identify health problems before unscheduled care is needed (blood, arterial or venous pressures running too high).

3. Alerts

Notifications (to patients and nurses) when key clinical parameters deviate from pre-established norms may help support patient case management.

Flowsheet Summary Start Date End Date

<input type="checkbox"/>	Alerts	Treatment Date	Patient Name	Date of Birth	Center Patient ID	Flowsheet Status	Treatment Notes	Treatment Duration	Dialysate (Processed/Rx)	Ultrafiltration	Weight (Post/Dry-Rx)	Printed
<input type="checkbox"/>		5/22/2019	DemoPatient, Mark	7/29/1966	11122.1	New		156 min	30.0 / 25.0 L	1.0 L	81.6 / 76.8 kg	
<input type="checkbox"/>	3	2/20/2019	DemoPatient, Chris	2/29/1948	11111	Approved		129 min	28.7 / 25.0 L	3.5 L	77.1 / 76.8 kg	
<input type="checkbox"/>	4	1/27/2019	DemoPatient, Chris	2/29/1948	11111	Approved		113 min	27.0 / 25.0 L	2.7 L	82.8 / 76.8 kg	
<input type="checkbox"/>		1/16/2019	DemoPatient, Nicole	2/12/1944	1234	Approved		27 min	1.1 / 30.0 L	0.0 L	65.0 / 65.0 kg	

1 - 4 of 4 record(s)

*The Nx2me app does not transmit data to the center in real time.



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Nx2me Reports

Flowsheet Summary & Flowsheet Calendar Report

These reports help clinicians better monitor:

- Patient adherence
- Patient health status to determine if intervention is needed

Flowsheet Summary Report
5/1/2019 - 5/31/2019

Patient Name: **Mark DemoPatient** Number of treatments per week*: **4.0**
Date of Birth: **7/29/1966** Center Patient ID: **11122.1** Patient Access Type*: **Fistula**

Treatment Date	Treatment Duration (min)	Dialysate (L) (Processed/Rx)	UF (L)	Weight (Kg) (Post/Dry-Rx)	Pre-Tx Sitting BP (Sys/Dia)	Pre-Tx Standing BP (Sys/Dia)	Post-Tx Sitting BP (Sys/Dia)	Post-Tx Standing BP (Sys/Dia)	VP@200 BFR (mmHg)	Saline Bolus (ml)
5/22/2019	156	30.0 / 25.0	1.0	81.6 / 76.8	120 / 80	120 / 80	120 / 80	130 / 85	-	50
5/21/2019	114	28.8 / 25.0	2.3	78.2 / 76.8	147 / 87	131 / 73	133 / 70	133 / 75	28	50
5/19/2019	156	31.5 / 25.0	1.7	83.9 / 76.8	107 / 68	112 / 89	133 / 72	130 / 61	42	55
5/18/2019	188	32.3 / 25.0	3.1	83.2 / 76.8	133 / 60	125 / 55	120 / 82	141 / 69	5	45
Averages	154	30.7 / **	2.0	81.7 / **	127 / 74	122 / 74	127 / 76	134 / 73	25	50

Total flowsheets: 4

This report displays Confirmed and Unconfirmed Flowsheet information.
† = Unconfirmed Flowsheet, * = Current value as of 1/9/2020, ** = Not calculated

Flowsheet Alert (arrow pointing to the weight column in the averages row)

Flowsheet Calendar Report
8/21/2016 - 10/1/2016

Patient Name: **Chris DemoPatient** Date of Birth: **2/29/1948** Center Patient ID: **37813**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Aug 21	22	23 100%	24 100%	25	26 100%	27 100%
28 100%	29	30 100%	31 100%	Sep 1	2 100%	3 77%
4 100%	5	6 100%	7 100%	8	9 100%	10 100%
11 100%	12	13 100%	14 100%	15	16 100%	17 100%
18 65%	19	20 100%	21 100%	22	23 100%	24 10% 57%
25 67%	26	27 100%	28	29	30	Oct 1 2+

Summary

Dialysate: Rx†: 30.0 L Ave. processed: 26.7 L (89%)
Treatments per week: Rx†: 4.0 Ave. flowsheets per week: 5.2 (129%)

This report displays Confirmed and Unconfirmed Flowsheet information. † = Current Value as of 9/27/2016
% = Dialysate processed / Dialysate prescribed 2+ = More than 2 flowsheets were received for this date. Consult the Patient Flowsheet Summary.
Nx2me Clinician Portal ver 2.4.0 on 9/27/2016 10:46:07 AM



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Adapting to Patients' Unique Needs

The Nx2me Clinician Portal allows you and your staff to adjust in order to meet your patient's unique needs.

For example, by setting a blood pressure and temperature alert, the Nx2me app assists patients by letting them know if their blood pressure or temperature exceeds the limits set by their clinician.



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STORY: Non-Adherent No More¹

Background

- A **patient** with a **history of non-adherence** when on peritoneal dialysis (PD) started training for home hemodialysis (HHD).
- The **nephrologist** was **confident** this patient would be great for HHD.

A Pleasant Surprise

- After 3 weeks of **HHD training**, the **patient** began using the **Nx2me app**.
- They were extremely **adherent** with their HHD training, **missed zero sessions**, and were **sent home** after completing the training.

Patient Impact

- Since the patient was sent home, they have **only missed one treatment**.
- The visibility their care team has to their treatments via the Nx2me Clinician Portal encourages them to remain adherent to their prescription.

Reference: 1. NxStage data on file. Nx2me Impact Story. FKC Midtown at Home (SC). Ebony Livingston, Clinic Manager. February 2019.

Not all patients may experience the same results.



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Clinician Productivity & Efficiency

Billing and Nurse Productivity

Nx2me Connected Health is designed to reduce the effort of collecting flowsheets and increase the capacity for proactive care.

Nx2me also has the potential to improve billing documentation* through:

- Automatic capture of NxStage HHD cyclers data
- Timely access to records
- Electronic flowsheets
- Ability to interface with EMR and billing systems

*The Nx2me app does not control the NxStage HHD cycler.

Prescription		Pre-Treatment Assessment		Post-Treatment Assessment		Medication										
Number of treatments per week	4.5	Pre-treatment labs drawn?	No	Post-treatment labs drawn?	No	Name	Dose									
Dialysate volume per treatment	25.0 L	Hospitalization since last treatment?	No	Any shortness of breath?	No	Heparin	500									
Therapy fluid source	PureFlow™ SL	Reason for missed treatment	N/A	Any chest pains or palpitations?	No	EPO	250									
Dialysate SAK type	SAK-301	Any shortness of breath?	No	Any swelling?	No	Heparin	300									
Dialysate lactate	-	Any chest pains or palpitations?	No	Any digestive problems?	No	EPO	100									
Dialysate potassium	-	Any swelling?	No	Access redness, drainage, swelling?	No	Heparin	102ml									
Flow fraction	35 %	Any digestive problems?	No	Access thrill?	-	EPO	204ml									
Average dialysate rate	8.0 L/hr	Any change in mobility?	No	Access bruit?	-											
Average ultrafiltration rate	120.00 L/hr	Access redness, drainage, swelling?	No	Infiltration?	Yes											
Initial blood flow rate	175 ml/min	Access thrill?	-	Time to stop bleeding	7 min											
Target blood flow rate	260 ml/min	Access bruit?	-	Catheter: dressing changed?	-											
Patient access type	Catheter	Catheter: dressing changed?	-	Catheter: any redness or drainage?	-											
Needle gauge	-	Catheter: any redness or drainage?	-	Any bruising?	No											
Heparin dose	1000	Catheter: ports aspirate and flush easily?	-	Tx performed with lines reversed?	No											
Heparin route	Access			Dialyzer appearance	Clear											
Pre-Treatment Vitals		Post-Treatment Vitals and Weight		Maintenance		Patient Notes										
Sitting BP (systolic/diastolic)	120/80 mmHg	Sitting BP (systolic/diastolic)	120/80 mmHg	Cycler blood leak detector cleaned?	Yes	Pre-Treatment: this is my comments file										
Standing BP (systolic/diastolic)	120/80 mmHg	Standing BP (systolic/diastolic)	130/85 mmHg	PAK was changed?	No	Treatment: [12:54 PM] This is a patient entered comment in the Treatment phase										
Sitting pulse	70 bpm	Sitting pulse	70 bpm	Drain line flushed?	Yes	[1:14 PM] This is a patient entered comment in the Treatment phase										
Standing pulse	70 bpm	Standing pulse	70 bpm	Control unit air filter replaced?	No	[1:34 PM] This is a patient entered comment in the Treatment phase										
Temperature	98.9 F	Temperature	99.4 F	Control unit air filter cleaned?	No	[1:54 PM] This is a patient entered comment in the Treatment phase										
		Weight	79.1 kg	Condo sensor tested?	No	[2:14 PM] This is a patient entered comment in the Treatment phase										
Pre-Treatment Weight		Treatment Time		Equipment		Center Notes										
Pre-treatment weight	80.2 kg	Start time	12:34 PM	Cartridge type	CAR-501	None										
Previous post weight	-	End time	-	Cartridge lot #	-											
Dry weight (Pt. entered/Rx)	76.8 / 76.8 kg	Total time in treatment	114 min	PAK lot #	-											
Weight gain	0.0 kg			SAK lot #	12											
Weight to remove	0.0 kg			SAK use #	1											
Reason for override:	-			Chloramines passed?	Yes											
				Warmer used?	-											
Treatment Cycler Values										Treatment Patient Values						
Mode	Time	Dialysate		Ultrafiltration		BFR ml/min	AP mmHg	VP mmHg	EP mmHg	Flow Fraction	Alarm (A)	Time	BP mmHg	Pulse bpm	Access Condition	Saline Bolus ml
		Rate L/hr	Volume L	Rate L/hr	Volume L											
	12:40 PM	11.5	0.8	0.50	0.0	500	-278	160	158	39.9 %	-	12:34 PM	105/70	70	Good	0
	1:04 PM	11.5	4.4	0.50	0.2	500	-266	139	147	39.9 %	-	12:34 PM	130/64	70	Good	0
	1:34 PM	11.5	9.3	0.50	0.4	500	-211	150	158	39.9 %	-	12:35 PM	119/78	70	Good	50
	2:06 PM	11.5	14.7	0.50	0.7	500	-205	157	177	39.9 %	-	12:35 PM	126/95	70	Good	0
	2:34 PM	11.5	19.7	0.50	0.9	500	-212	148	158	39.9 %	-	12:36 PM	147/85	70	Good	0
	3:04 PM	12.0	24.5	0.00	1.0	500	-209	149	163	40.0 %	-					
	3:34 PM	12.0	29.6	0.00	1.0	500	-211	141	155	40.0 %	-					
	3:36 PM	0.0	30.0	0.00	1.0	500	-207	134	140	0.0 %	-					
	5:02 PM	11.5	0.8	0.50	0.0	500	-278	160	158	39.9 %	A25					
	5:02 PM	11.5	0.8	0.50	0.0	500	-278	160	158	39.9 %	A25					



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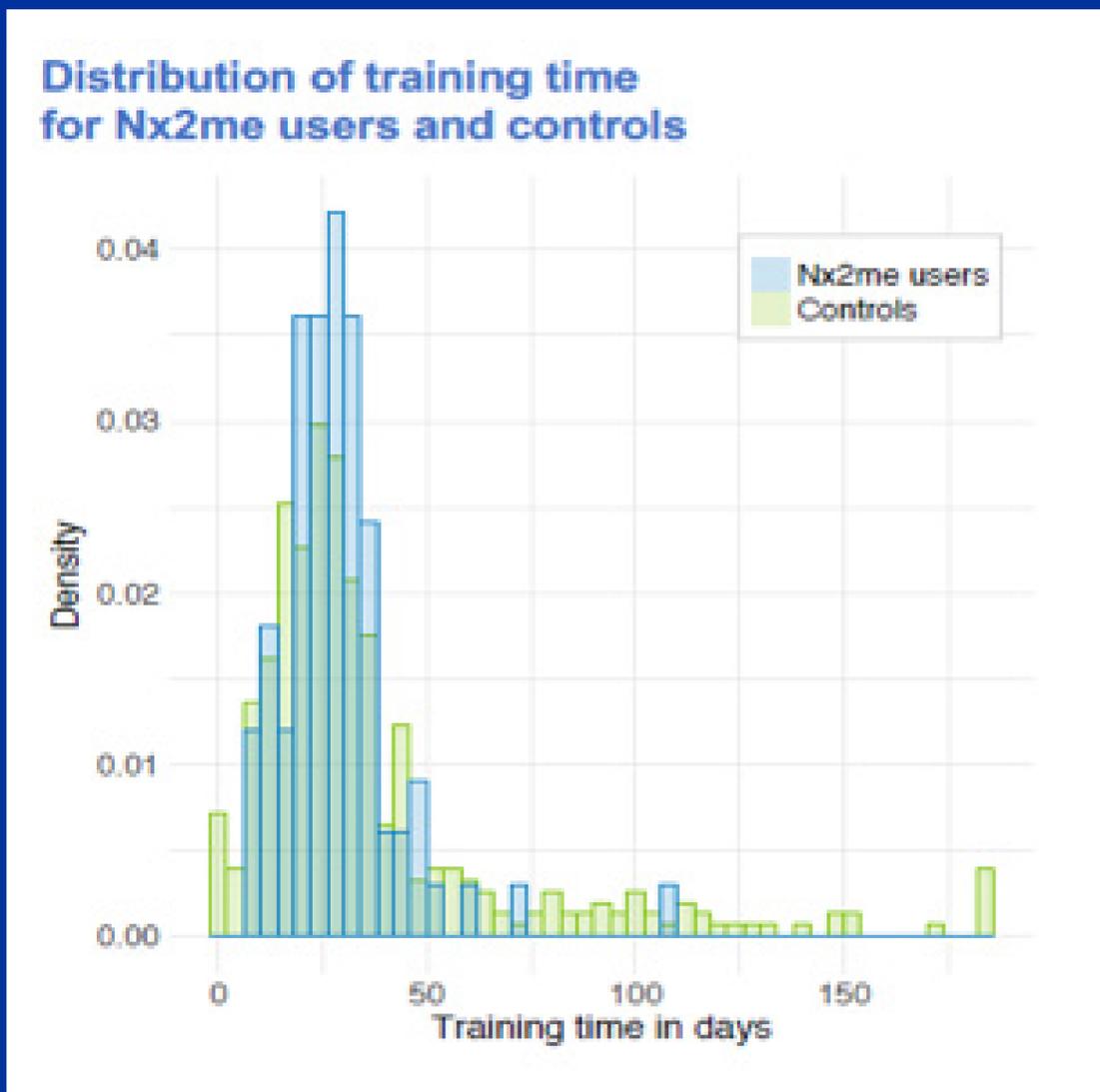
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Clinician Productivity & Efficiency

Enhanced HHD training graduation and more effective training



Source: Weinhandl ED. Reduction in Home Hemodialysis Training Time with use of Nx2me Connected Health. Abstract (poster) presentation. 2018 Annual Dialysis Conference.

27%
Improvement in training graduation rates



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Insights From One Widely-Recognized Center

Nx2me Enhances Patient Training



Easy alert notification and education



Specific NxStage HHD cyclers alarm description displayed **helps with troubleshooting**



Assists in entering dry weight



Prompts the patient to check blood pressure and blood pressure fluctuations can be assessed during treatment

Source: Koester, Lisa. Webinar. Connected Health: Clinical Findings & Intervention Strategies for Home Dialysis Patient Success. November 2019.



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Electronic Flowsheets

The Nx2me flowsheet eliminates the burden of completing paper flowsheets, and reduces the potential for errors and non-adherence.



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Large Cyclor Treatment Display With Treatment Parameters

The cyclor treatment display shows treatment readings and parameters, such as arterial and venous pressure, enabling patients to respond promptly to undesirable readings.

Patient alerts are displayed when certain vitals fall outside the parameters set for their treatments. For example, if a patient's blood pressure is beyond the established range, a pop-up will instruct them to their center for further instructions.



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Alarms and Cautions

The Nx2me app communicates with the NxStage HHD cyclers for immediate troubleshooting of cautions and alarms. In the case of an alarm, the app will alert patients with a pop-up notification and provide step-by-step troubleshooting instructions.



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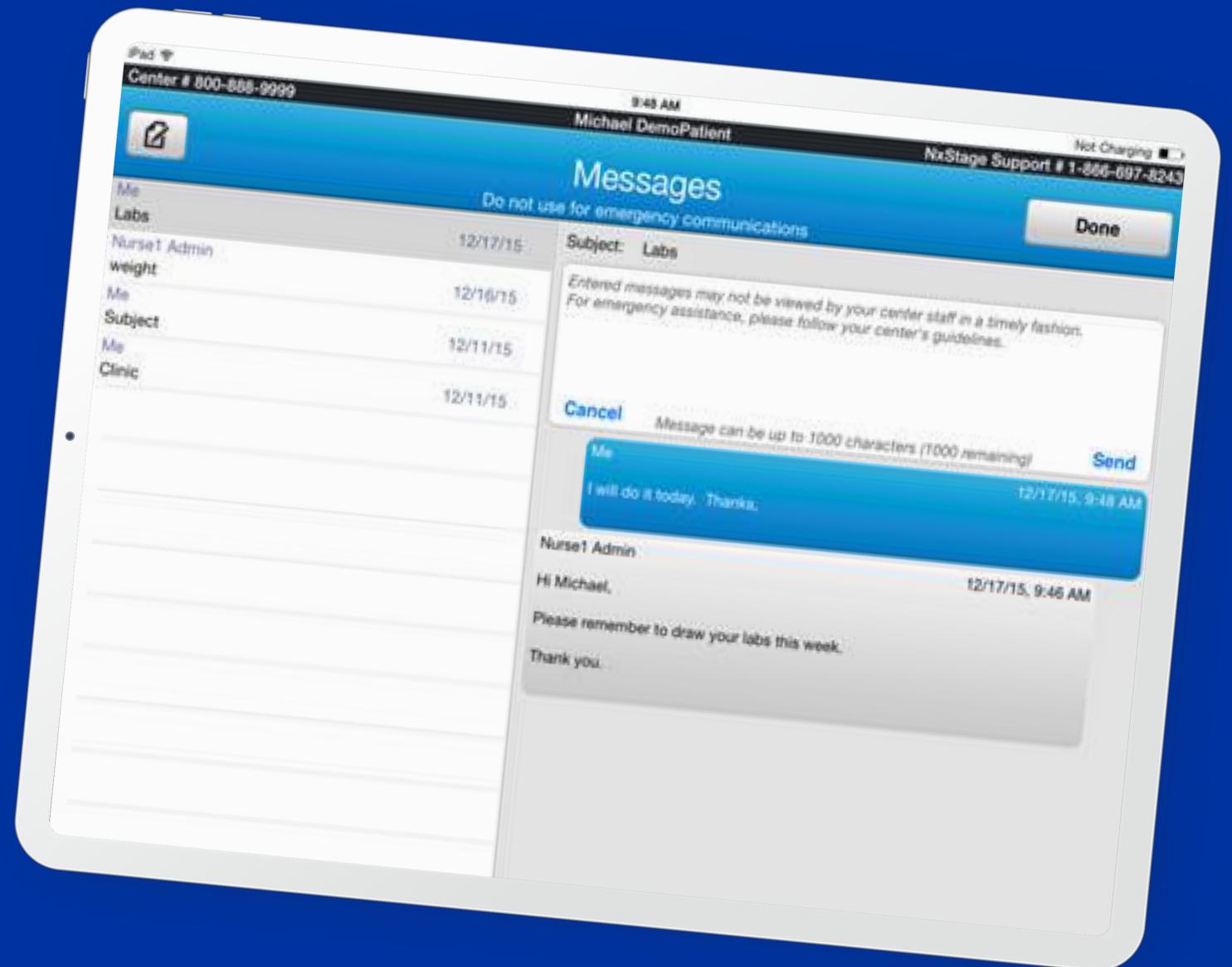
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Other Nx2me Capabilities for Patients

- Notes and Medications
- Messaging
- Pop-Up Reminders
- Electronic Copy of User Guide



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STORY: The Power of Link and NxStage Technical Support¹

Background

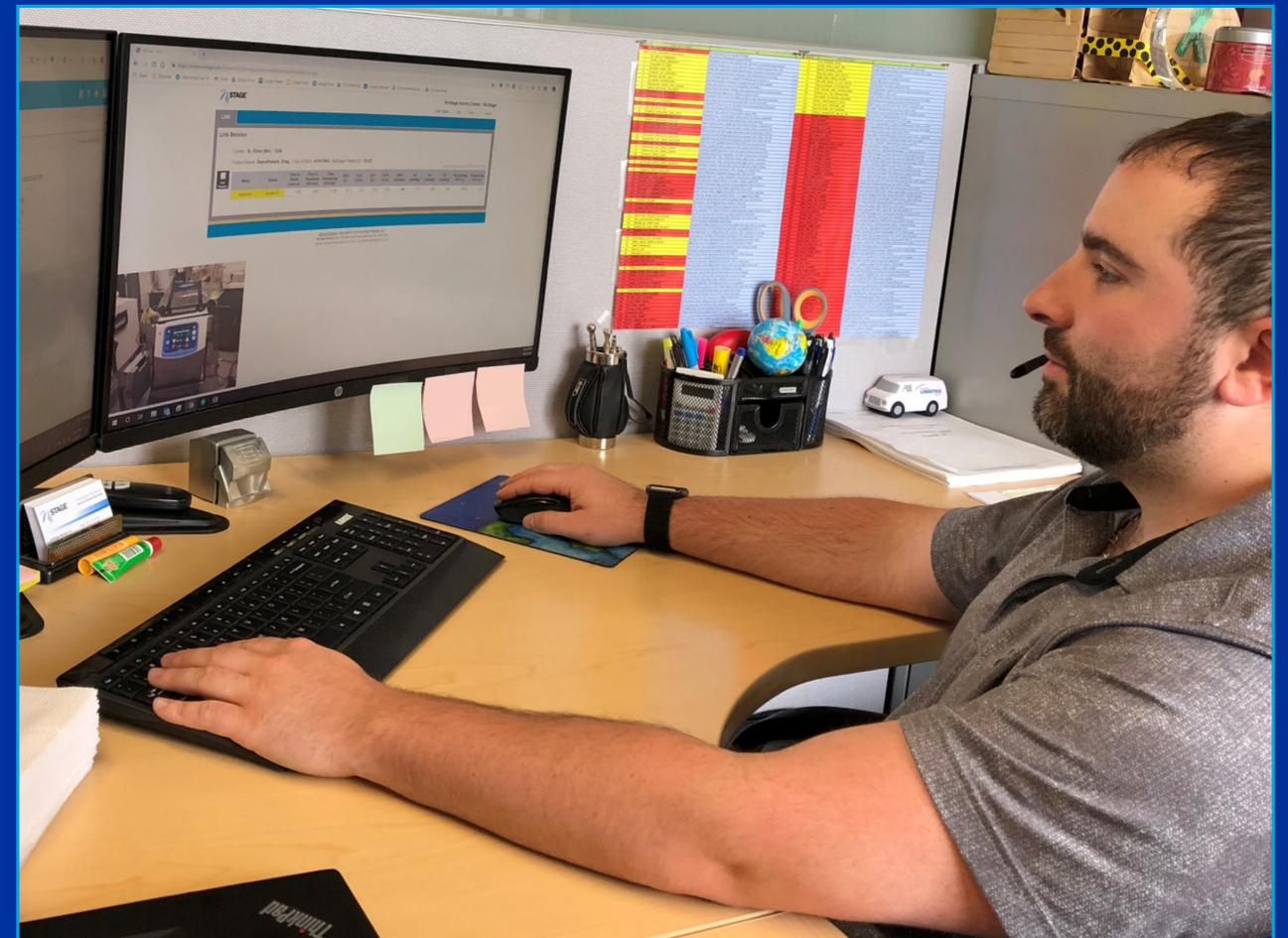
- During treatment, a **care partner** attempted to increase the patient's RF volume but **accidentally pushed an incorrect button**.
- Since the **care partner** did not know whether the rate or volume had been adjusted, they **contacted NxStage Technical Support**.

Action

- A NxStage Technical Support rep **utilized Link** to view the cyclor data stream.
- This allowed him to **see and confirm the exact volume and rates programmed**, as well as **data already processed** prior to the pause in treatment.

Impact

- NxStage Technical Support **calculated and adjusted the cyclor therapy** to within 0.1L of the specific volume goal.
- The **care partner** successfully made the **adjustment**.



Reference: 1. NxStage data on file. Nx2me Impact Story. FKC South Holland (IL). May 2019.



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Insights From One Widely-Recognized Center

Nx2me stimulates patient conversations & allows for better patient assessment



Helps **identify care partner burn out** early



Assists in **identifying possible Solo patient candidates**



Enables **two-way communication** between patient & staff



Strengthens patient & staff relationship



Allows for **reporting of dates and times medications were taken**

Source: Koester, Lisa. Webinar. Connected Health: Clinical Findings & Intervention Strategies for Home Dialysis Patient Success. November 2019.



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STORY: Timely Monitoring, Timely Adjustments¹

Background

- A NxStage **patient was experiencing lightheadedness and nausea** and called their center for assistance.
- The **nurse** assessed the patient over the phone and **recognized symptoms of hypotension** related to volume removal.
- The nurse wanted to **review** her treatment record via the **Nx2me Clinician Portal**.

Nurse Action

- Once at the clinic, the nurse used one of her important tools, the **Nx2me Clinician Portal, to compare data** on the flowsheet with data from the patient.
- She discovered the patient had been **taking steroids and gained weight**, which required increasing her recorded dry weight.
- **Adjustments were quickly made**, which helped the patient.

Patient Impact

- **If not for the Nx2me Clinician Portal**, 3 weeks would have passed before the patient's next clinic visit, and this **data would not have been seen until then**.

Reference: 1. NxStage data on file. Nx2me Impact Story. FKC Golden Triangle (MS). Beth Vonn, RN Program Manager. January 2019.

Not all patients may experience the same results.



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STORY: Non-Adherent or Care Partner Burden?¹

Background

- A **Home Training Nurse**, reviewing records on **Nx2me Connected Health**, noticed **2 patients were occasionally missing home hemodialysis (HHD) treatments**, specifically on weekends.
- It **appeared to be** a case of **non-adherence**.

Action

- The social worker, nephrologist, and home training nurse spoke with one of the patients and discovered that the **patient's care partner was overburdened** - trying to balance a job and helping administer HHD.
- A **multidisciplinary team** met to **identify solutions** to help the patient **continue dialyzing at home**.

Impact

- **Solo (HHD)** was an option proposed as a way to **maintain the patient's home therapy while reducing the caregiver's hardships**.
- **One patient was trained to do Solo HHD** and the second patient is considering trying Solo HHD as well!



Reference: 1. NxStage data on file. Nx2me Impact Story. FKC Lake City Home (FL). Gracelynn Harris, RN. May 2019.

Not all patients may experience the same results.



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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.

For more information on Nx2me, contact your area representative or NxStage at **1-866-697-8243**



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