

## Researchers study Hurricane Sandy's impacts on kidney patients

12 January 2015



"The research showed clearly that delaying dialysis can have devastating health effects for patients with end stage renal disease," explained Nicole Lurie, M.D., co-author and HHS assistant secretary for preparedness and response.

"The good news is that we saw a lot of patients receiving dialysis before the storm hit. That type of advance planning by patients and their facilities should become routine nationwide." she said. "Everyone involved should know what to do when their facilities might close—patients should know where to go, and facilities should be able to provide a surge in early dialysis care so treatment is not delayed. At the end of the day, that helps people and their communities be more resilient."

The study analyzed CMS data from 13,264 patients living in the areas hardest hit by Hurricane Sandy in New Jersey and New York. These data were compared with those on patients in states unaffected by Sandy during the same time period. and to those on patients living in the Sandyaffected region a year prior to the hurricane.

Researchers found that emergency visits for patients in the impacted areas went up to 4.1 percent – a higher rate than the 2.6 percent and 1.7 percent found in two comparison groups. In-patient hospitalization rates were also higher. Approximately 23 percent of patients who had an emergency department visit during the storm also received dialysis treatment there.

In addition, there was a small increase in mortality The study was conducted by researchers from the for end stage renal disease patients in Sandy-U.S. Department of Health and Human Services' affected areas versus those in the comparison groups. In the 30 days following Hurricane Sandy, death rates rose to 1.83 percent compared to 1.47

percent and 1.6 percent in comparison groups. The study documented that a large number of patients received pre-emergency dialysis care.

Almost 70 percent of the dialysis facilities located in

Office of the Assistant Secretary for Preparedness and Response (ASPR) and the Centers for Medicare and Medicaid Services (CMS). The study serves as a stark reminder that <u>patients</u> and health care facilities need to have emergency plans for receipt of dialysis, well in advance of natural

Hospital and dialysis facility disruptions caused by

department visits, hospitalizations, and a slight rise

Hurricane Sandy led to increased emergency

and New Jersey, according to a new study

Diseases.

disasters.

in the death rate of kidney patients in New York

published in the January issue of the National

Kidney Foundation's American Journal of Kidney



the study areas provided early dialysis to 59 percent of dialysis patients on the Sunday before the storm struck.

Early treatment on this scale was attributed to the strong relationships that had been developed before the storm, enabling close collaboration and coordination among state and local health officials, kidney networks, Kidney Community Emergency Response Coalition (KCERC), and dialysis patients Hurricane Sandy in October 2012 on individuals prior to, during, and after Sandy.

Researchers said the study underscores the importance of pre-disaster dialysis planning community-wide. "About 40 percent of patients did not receive early dialysis, which means there is still plenty of room for dialysis patient and facility improvement," said Dr. Lurie. "I hope these findings Medical Officer of the National Kidney Foundation. serve as a rallying cry not just for the dialysis community, but for all for people with any type of chronic health condition and their care providers to plan for emergencies."

The study also highlighted the need for patients and providers to have redundant ways to communicate and an understanding of what protective measures to implement prior to, during, and after a disaster. For example, in advance of an emergency, patients, providers and facilities should discuss emergency renal diet options and supplies to have on hand as well as their facility's protocol for obtaining early dialysis.

The study's authors also recommended that:

- Dialysis patients should regularly update their facility and nephrologist on their emergency plan, including an updated caregiver contact list.
- Patients should request information from their facility on how to access care at an alternative facility if theirs closes.
- Patients should have multiple transportation options ready to get to and from their treatments.
- All patients should have a copy of their current dialysis treatment plan, hepatitis status, and list of medications to bring with them should they need emergency dialysis.
- Facilities should also ensure their patients understand who to contact if their facility is

unreachable by phone or Internet. The information should at a minimum include contact information for their regional kidney network and the Kidney Community Emergency Response (KCER) Coalition's patient hotline, which is available at: www.kcercoalition.com.

"This is an important analysis of the impact of treated with in-center hemodialysis that ultimately helps the dialysis community better anticipate what might go wrong, improve emergency plans for disaster scenarios, and more rapidly respond to protect the health of our patients during emergencies," said Joseph Vassalotti, MD, Chief "The study reflects another step forward to improve the education and training of patients and dialysis clinic staff, following the widely recognized poor response to Hurricane Katrina in August 2005."

## **Dialysis Facts from the National Kidney Foundation**

- Approximately 450,000 Americans are on dialysis and approximately 185,000 live with a functioning kidney transplant.
- Since 2000, the number of patients who have been diagnosed with kidney failure has increased 57%.
- In 2011, more than 92,000 patients died from causes related to kidney failure.

There are approximately 5,938 dialysis facilities and 251 certified kidney transplant facilities in the U.S. Of these dialysis facilities, approximately 765 are hospital based.

Provided by National Kidney Foundation



APA citation: Researchers study Hurricane Sandy's impacts on kidney patients (2015, January 12) retrieved 10 October 2022 from <a href="https://medicalxpress.com/news/2015-01-hurricane-sandy-impacts-kidney-patients.html">https://medicalxpress.com/news/2015-01-hurricane-sandy-impacts-kidney-patients.html</a>

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