



DIALYSIS OUTCOMES AND  
PRACTICE PATTERNS STUDY

**COVID-19 and chronic dialysis in the US:  
What's happened so far and what's next?  
An open conversation**

**US DOPPS Practice Monitor**

**Webinar, 2 July 2020**

[www.dopps.org/DPM](http://www.dopps.org/DPM)

# DOPPS Funding Acknowledgements 2020

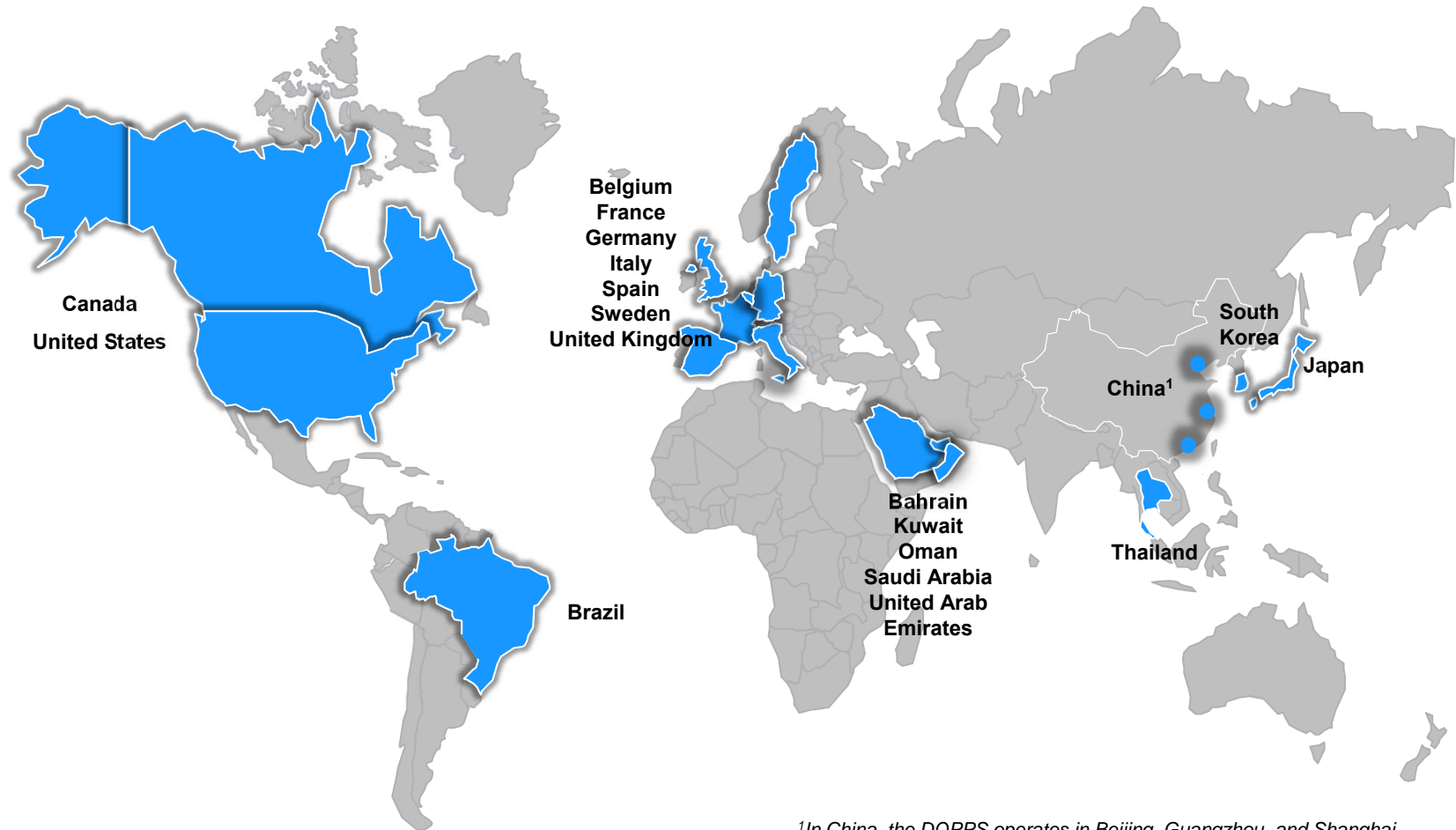
The DOPPS Program would not be possible without the support for independent scientific research to improve patient care from the following organizations:

- Akebia Therapeutics, Inc.
- Amgen Inc (since 1996, founding sponsor)
- AstraZeneca Pharmaceuticals LP
- Bard Peripheral Vascular, Inc.
- Baxter Healthcare Corp
- Bayer Yakuhin, Ltd
- Chugai Pharmaceutical Co., LTD
- Dialyze Direct, LLC
- Fresenius Medical Care Asia-Pacific Ltd
- GlaxoSmithKline LLC
- Japanese Society for Peritoneal Dialysis
- JMS Co., Ltd.
- Kidney Research UK
- Kidney Foundation Japan
- Kissei Pharmaceutical Co., Ltd
- Kyowa Kirin Co., Ltd. (since 1999 for Japan DOPPS)
- Merck Sharp & Dohme Corp
- Nikkiso Co., Ltd.
- ONO Pharmaceutical Co., Ltd
- Sanofi-Aventis Deutschland GmbH
- Terumo Corporation
- Torii Pharmaceutical Co., Ltd
- Vifor-Fresenius Medical Care Renal Pharma Ltd

Public funding has been provided by agencies in  
France, Thailand, United Kingdom, USA

# The DOPPS Program Worldwide

DOPPS Program: 19 Countries, >775 sites, ~34,000 ESKD & ND-CKD Patients



<sup>1</sup>In China, the DOPPS operates in Beijing, Guangzhou, and Shanghai

# US DPM: Monthly data, updates every 6 months; >1900 figures & tables

Stratified random sample (since 2010)

Now ~180 US facilities, ~12,000+ patients with data from 2 LDOs and Visonex

**DOPPS** PRACTICE MONITOR

 United States ▾

to [DOPPS.org](http://DOPPS.org)

Reporting contemporary trends in U.S. dialysis practice

Last Data Update: May 2020 (data through February 2020)

Web conference on DOPPS Practice Monitor Emerging Trends on Thursday, July 2, 2020 at 3:00 pm EDT. [Click here to register.](#)































Featured Data

Browse All Data

News & Publications

About DPM

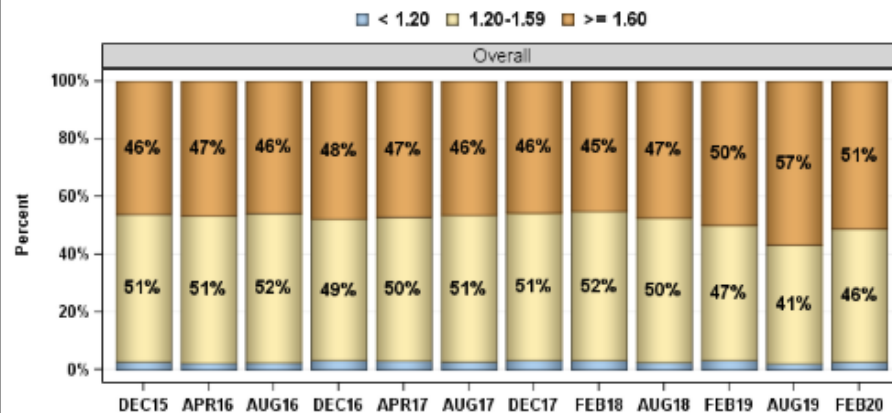
Download Quality of Life Data

Featured Measure	National Sample	Key Messages	Related Slides
Dialysis Dose (Kt/V)			
Hemoglobin			
Serum Calcium			
Serum Phosphorus			
Serum PTH			
Serum Potassium			
IV Epoetin Dose (Received)			
IV Iron Use			
IV Vitamin D Use			
Calcimimetic Use			

(Mouse-over icon to view, Click icon to browse)

Download All Featured Measures Slides (PPTX)

## Single-pool Kt/V National sample



Among patients with >365 days on dialysis  
 Facility sample transitioned from DOPPS 4 to 5 in Jan-Apr 2012 (see "Study Sample and Methods").  
 Facility sample transitioned from DOPPS 5 to 6 in Mar-Jul 2015 (see "Study Sample and Methods").  
 Facility sample transitioned from DOPPS 6 to 7 in Feb-May 2018 (see "Study Sample and Methods").  
 Source: US-DOPPS Practice Monitor, April 2020; <http://www.dopps.org/DPM>

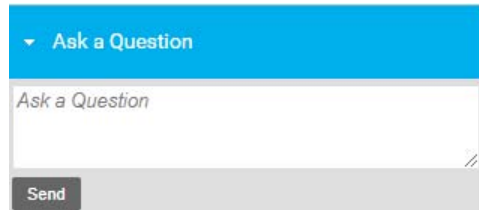
Understanding the DPM Figures - Share

# COVID Roundtable: Today's Topics

- **Chronic dialysis (not AKI or transplant)**
- **Infection rates & outcomes**
- **Care for COVID+ patients**
- **Dialysis unit practices:**
  - (Infection control)
  - Testing
  - Providing in-center HD
  - Home dialysis
- **Staff considerations**
- **Lessons learned, coming challenges, & long-term changes**

# Please Use the Q&A Function!

- The Q&A function will be available for participants to use throughout the meeting (on the left side of your screen).



- We encourage all attendees to submit questions or comments as they arise using this tool. Participant audio lines are muted.
- Our facilitators are ready to go! We will do our best to triage each question, via Q&A or audio, to our panelists.

# Join the conversation on Twitter

- Follow us **@DOPPSStudy**
- Use **#DOPPS** for tweets about today's presentation



Tweets **593**   Following **61**   Followers **1,617**   Likes **263**   **Following**

**DOPPS**  
@DOPPSStudy Follows you

DOPPS collects data on outcomes & practice patterns in hemodialysis, peritoneal dialysis, and CKD to identify clinical practices that benefit patients.

[DOPPS.org](http://DOPPS.org)  
Joined August 2013

**Tweets**   **Tweets & replies**   **Media**

**Pinned Tweet**

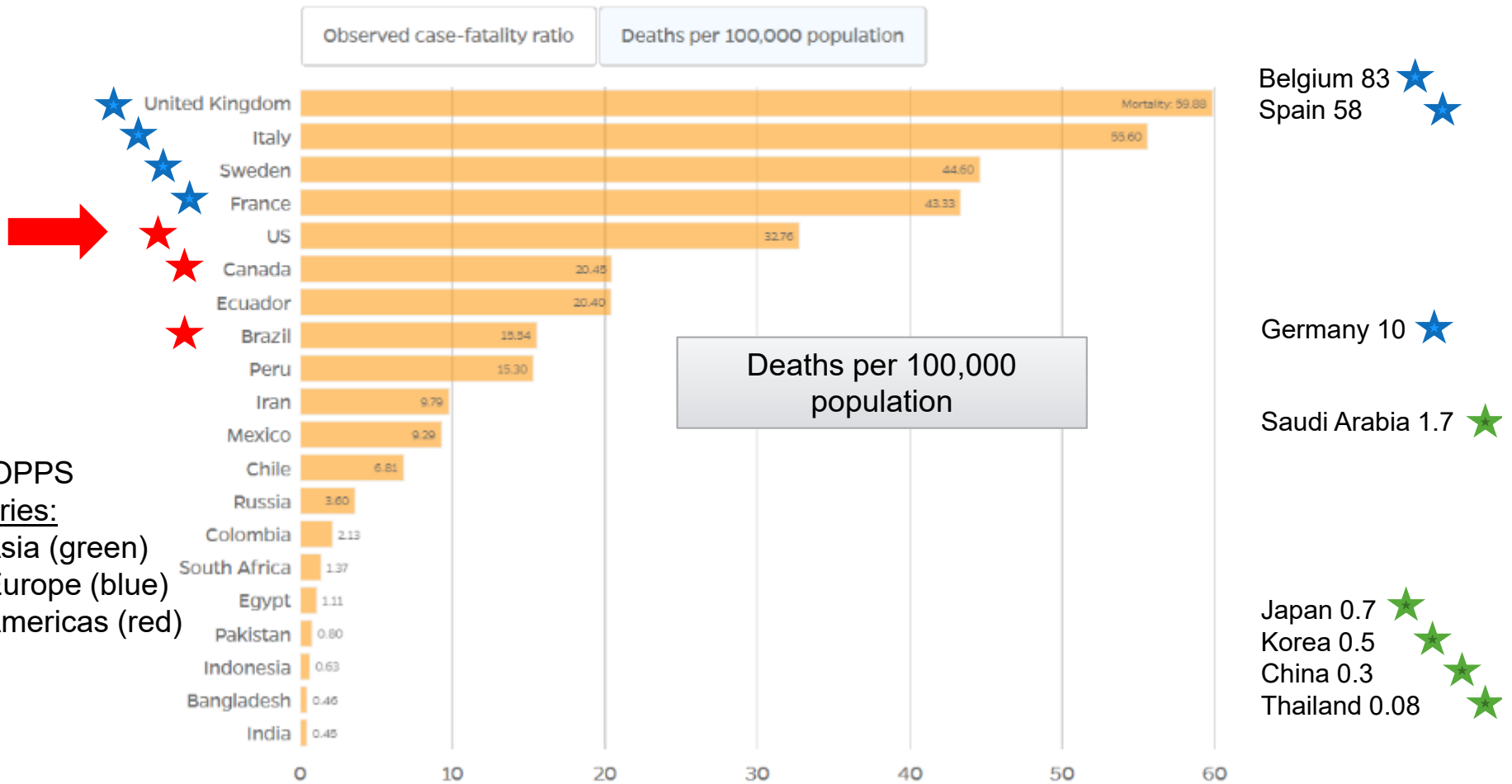
**DOPPS** @DOPPSStudy · 1m  
This Thursday - join us for a discussion of results from Peritoneal DOPPS & the DOPPS Practice Monitor. Register at [dopps.org/dpm/](http://dopps.org/dpm/)

**DOPPS**  
PRACTICE MONITOR

JOHNS HOPKINS UNIVERSITY & MEDICINE | CORONAVIRUS RESOURCE CENTER

Home Maps & Trends Testing Tracing

World Map U.S. Map



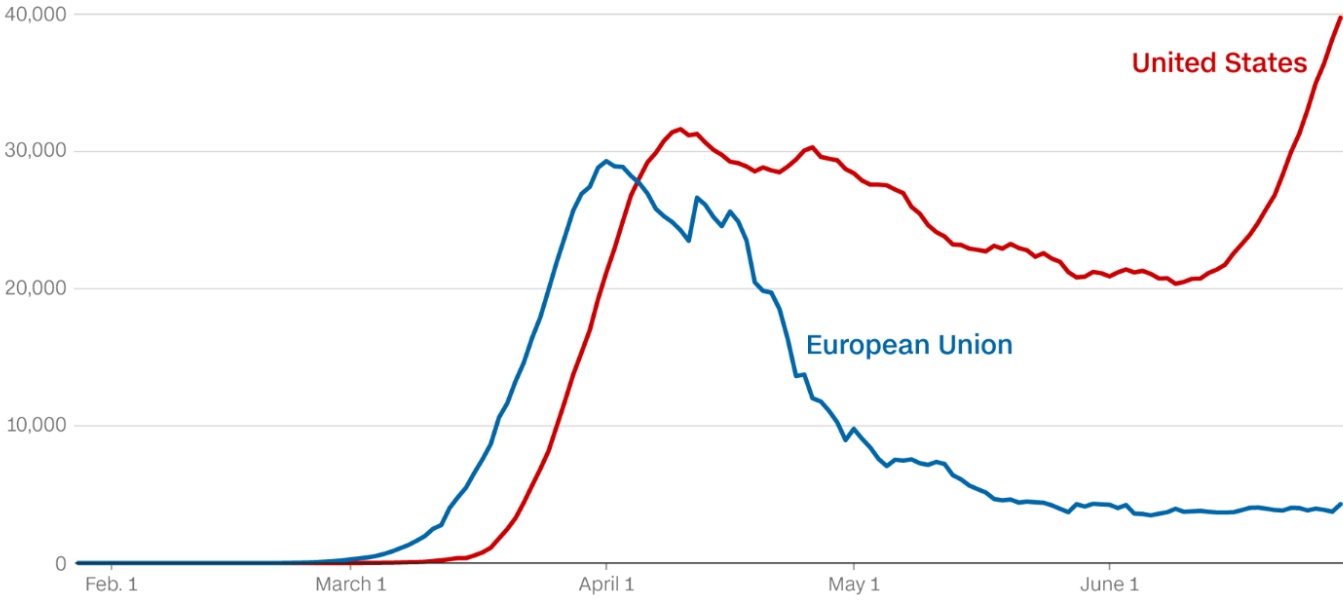
15 DOPPS countries:  
 5 in Asia (green)  
 7 in Europe (blue)  
 3 in Americas (red)

Notable increases as of 1 Jul 2020: BR 28, US 38, Saudi Arabia 5



# New coronavirus cases in the US vs. the EU

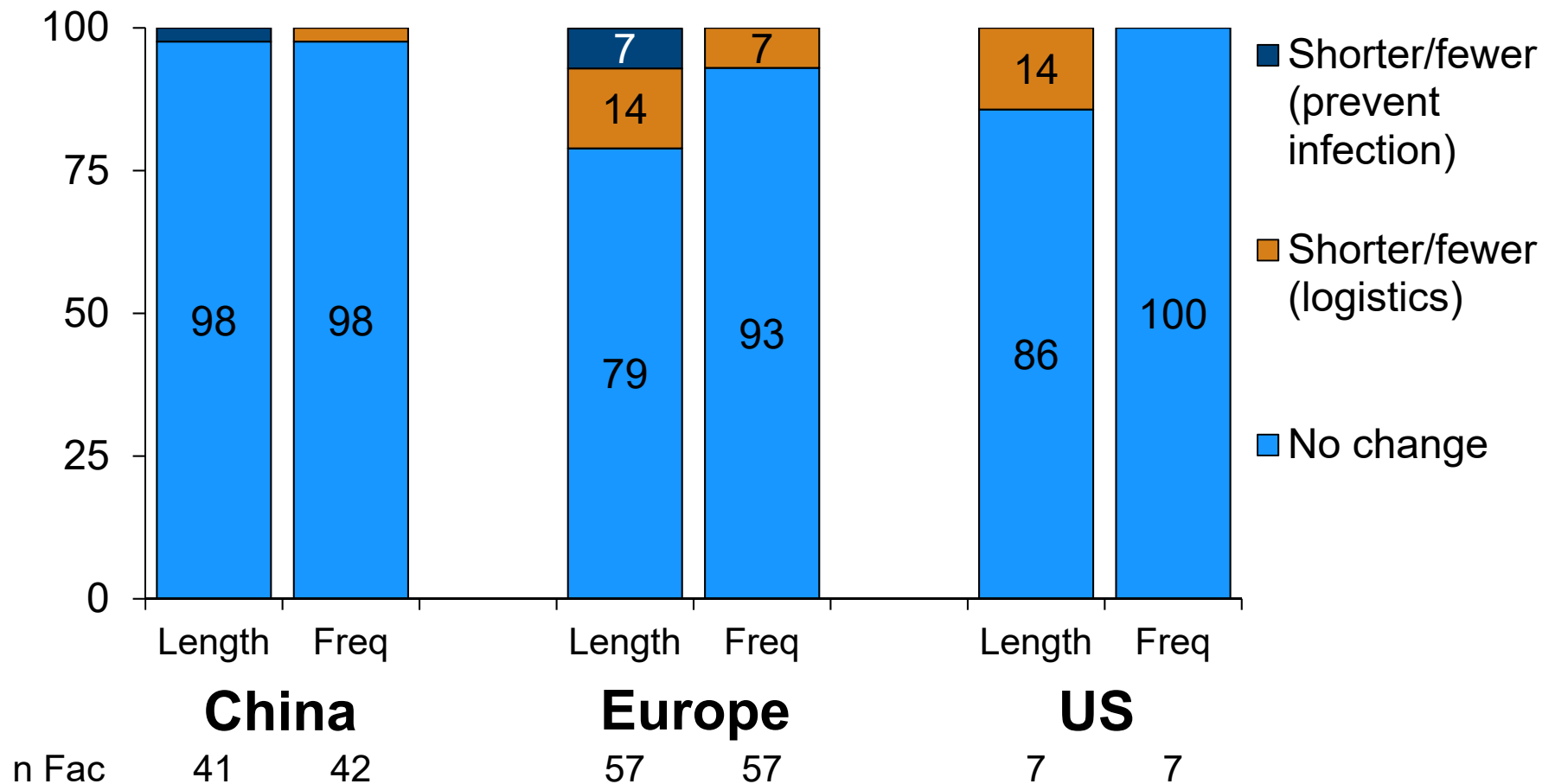
Soaring daily reported cases in the US and low EU numbers show why Americans are facing a European travel ban.



Note: Data based on rolling, seven-day averages

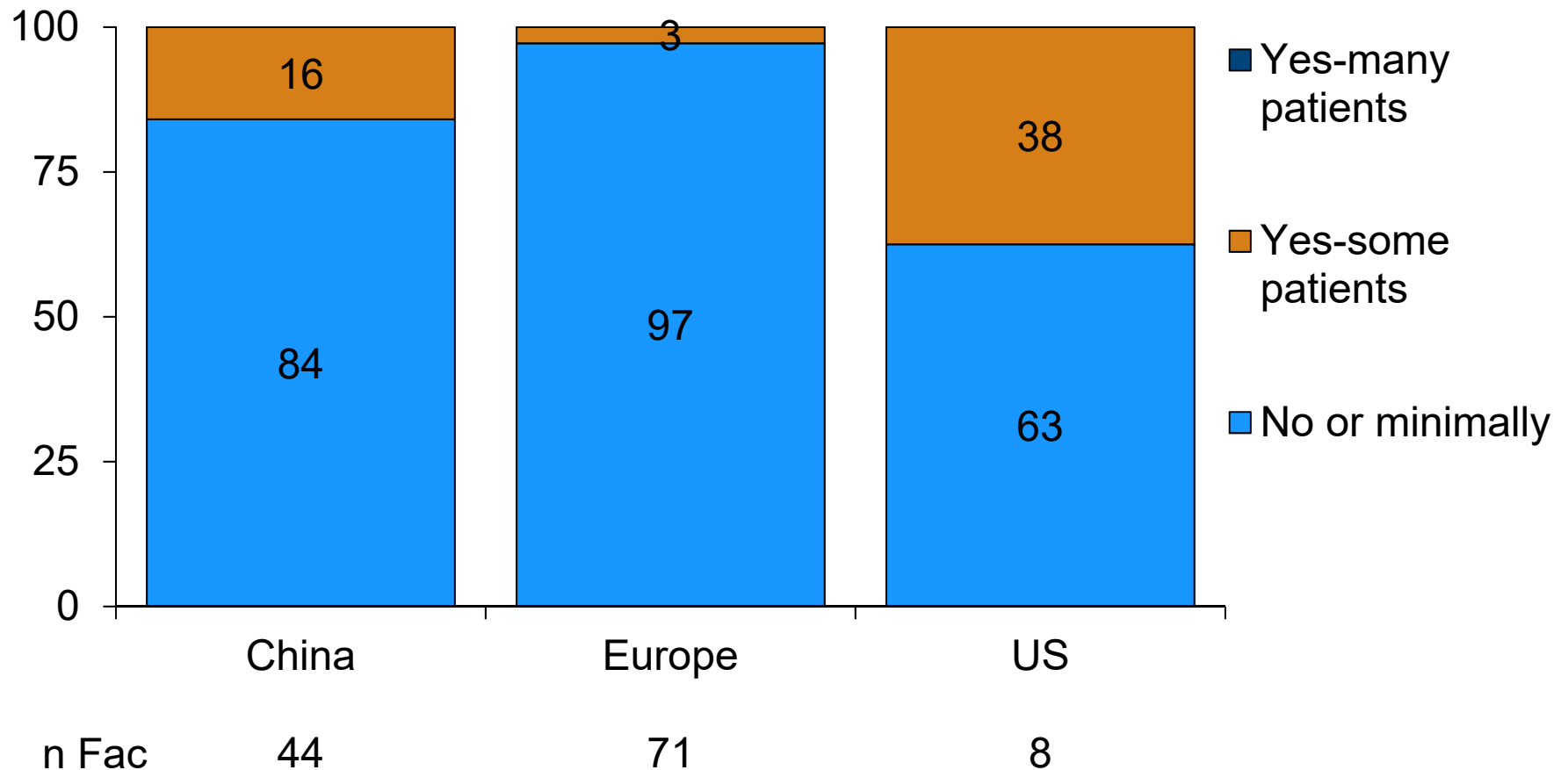
# Did dialysis session length / frequency change because of the COVID-19 pandemic?

% of medical directors



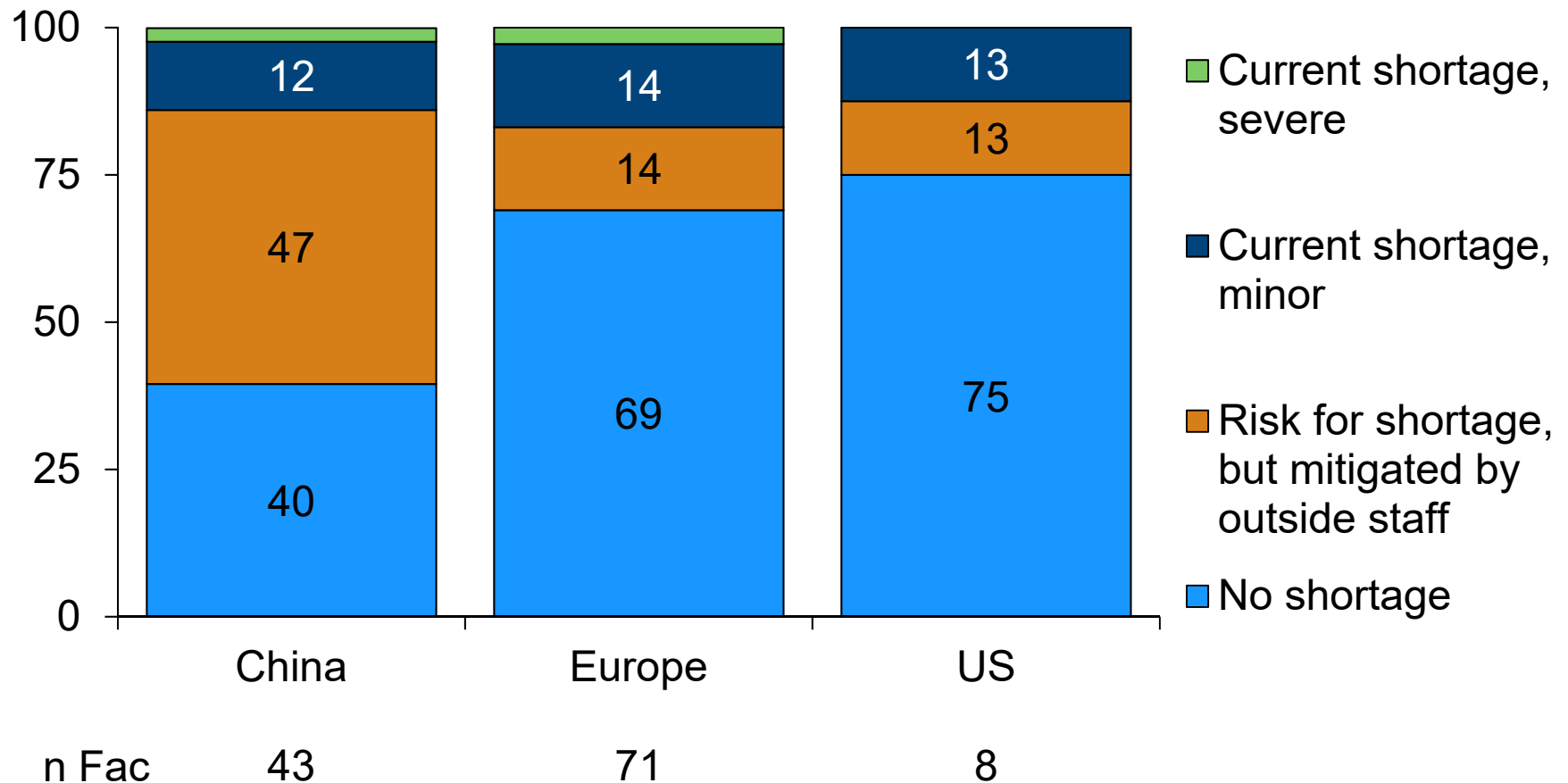
# Are more patients skipping treatments during the COVID-19 pandemic?

% of nurse managers



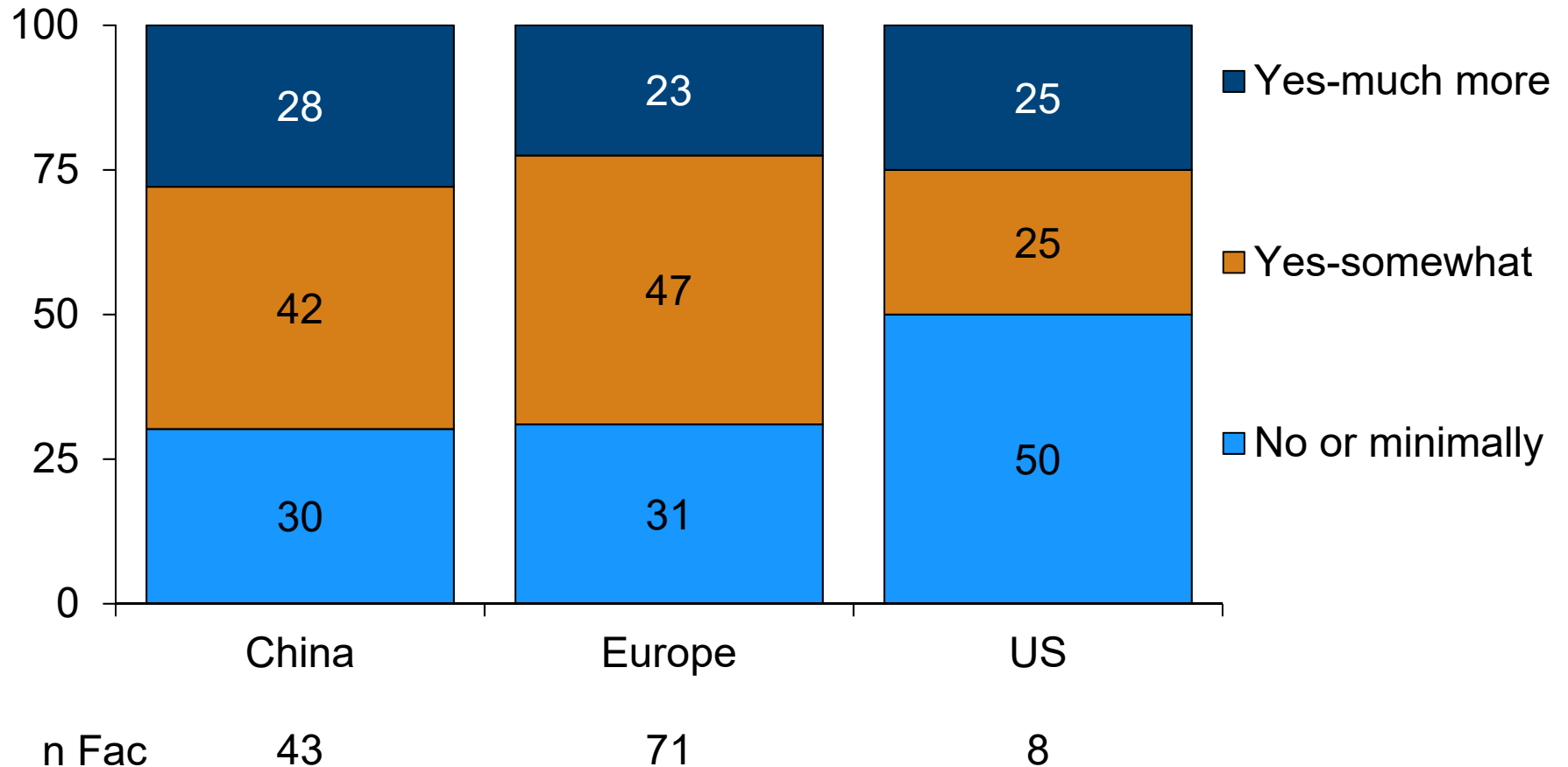
# Is there a shortage of staff at your clinic during the COVID-19 pandemic?

% of nurse managers



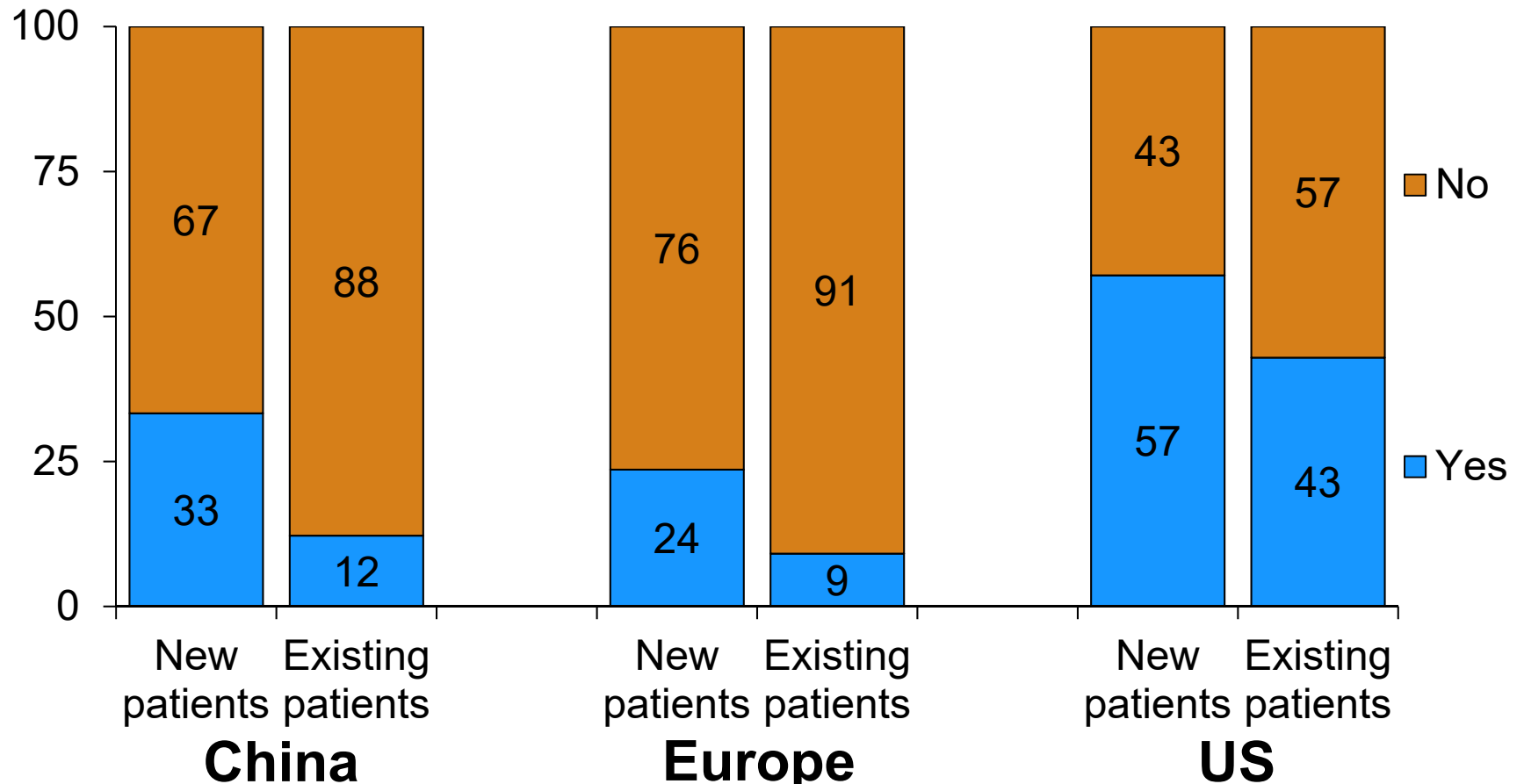
# Are urgent vascular access interventions more challenging to obtain during the COVID-19 pandemic?

% of nurse managers



# Are you more likely to recommend home dialysis because of the COVID-19 pandemic?

% of medical directors



n Fac 42 41

55 55

7 7

# Today's Panelists



**Laurie Amburn, RN**

Greenfield Health Systems  
Detroit, MI

# Today's Panelists



**Kathy Bernardelli, RN**

Henry Ford Hospital  
Detroit, MI



# Today's Panelists



**Jayson Hood, RN**

Northwest Kidney  
Centers, Seattle, WA

# Today's Panelists



**Mark Johnson**

Hemodialysis Patient,  
Patient Advocate  
Atlantic, Iowa

# Today's Panelists



**Jeffrey Perl, MD**

University of Toronto  
Toronto, Canada

# Today's Panelists



**Rachel Perlman, MD**

University of Michigan  
Ann Arbor, MI

# Today's Panelists



**Vesh Srivatana, MD**

Rogosin Institute  
New York City

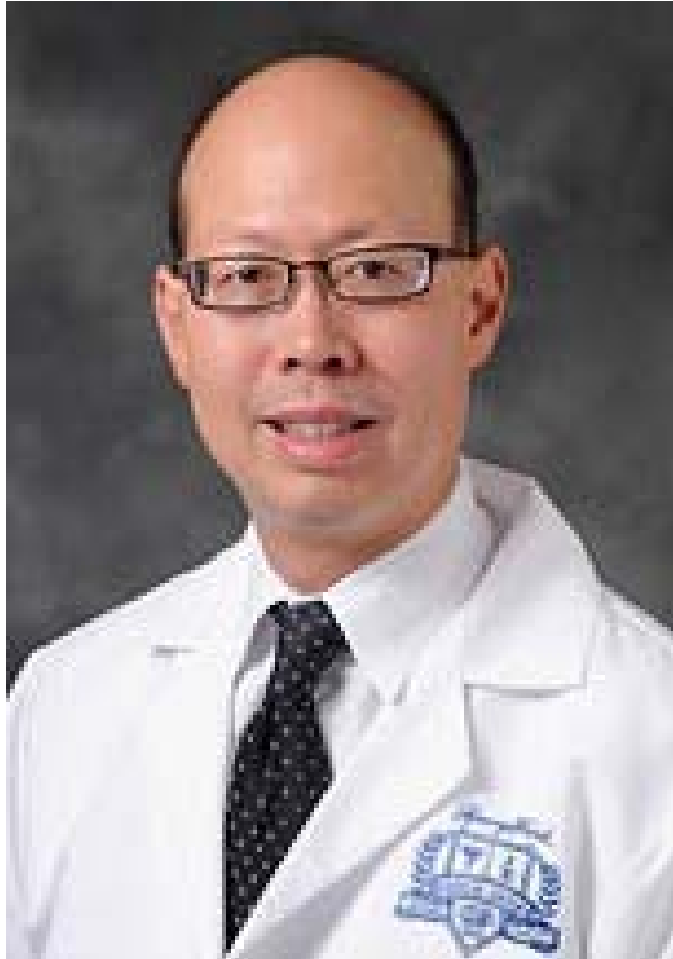
# Today's Panelists



**Suzanne Watnick, MD**

Northwest Kidney Centers,  
University of Washington  
Seattle, WA

# Today's Panelists



**Jerry Yee, MD**

Henry Ford Hospital &  
Greenfield Health System  
Detroit, MI



## COVID-19 and ESKD: Diagnoses and deaths as of April 8, 2020



Tested positive for COVID-19	<b>2,738</b>	(0.5%)
Receiving hospital-based care	<b>1,206</b>	Hosp: 44.1%
Outpatient care	<b>928</b>	
Home dialysis	<b>86</b>	Home: 3.1%
Deaths	<b>305</b>	Mortality: 11.1%

Healio 

**Source:** Kidney Care Emergency Response (KCER). Presented at: Nephrologists Transforming Patient Safety webinar, COVID-19: Considerations in the Home Dialysis Setting, April 9, 2020 (J. Perl).



# Preliminary CMS COVID-19 Related Findings (*among Medicare beneficiaries*)\*

For encounters from Jan 1 to May 16, 2020, with claims received by June 11, 2020:

## # Covid-19 cases per 100k beneficiaries:

**2614 for ESRD patients**

502 for patients who qualified for Medicare based on age

484 for patients who qualified based on disability.

## COVID-19 related hospitalization rate per 100k beneficiaries:

**1341 for ESRD patients**

167 for patients who qualified for Medicare based on age

150 for patients who qualified based on disability

# **SARS-CoV-2 Infection and Outcomes**

- **Infections among chronic dialysis patients**
  - Overall and by modality
  - Is transmission declining in HD units?
- **Outcomes**
  - Overall and by modality
  - Highest-risk (e.g., skilled nursing facility) patients

# Chronic Dialysis Patients with COVID-19

- **COVID shifts / cohorting**
  - Cohorting of recovered patients
  - Persistently positive tests: what do they mean?
- **Vascular access**
  - Clotting / use of acute PD if access clotted?
- **Outside US, some limits to hospital care given resource constraints**
- **Other**

# Post-COVID care

- **Challenges of transition of care (rehab) after discharge**
  - **Changing policies regarding post-acute care placement**
  - **Limited SNF beds**
  - **“COVID+ rehab units”**

# Post-COVID care

- **What is the rehabilitation of patients on hemodialysis who have undergone covid19?**
  - **Do I need to monitor d-dimer, platelets, lymphocytes, and CPK?**
  - **Do I need to transfer these patients to a daily intake of low-molecular-weight heparins?**

# Dialysis Unit Practices

- **Any updates on best practices for:**
  - **Symptom screening**
  - **Masking**
  - **Cleaning**

- Infection Prevention and Control –
  - Follow the science
  - Insist on highest standards of care for our patients, with or without COVID  
(Utilize available community resources!)

# Dialysis Unit Practices: Testing

- **What approaches are being taken by in-center hemodialysis clinics to address testing, to cohort patients according to the SARS-CoV-2 status?**
  - PCR, antibody
- **Are any special steps being taken in particularly high risk clinics, e.g. skilled nursing facility hemodialysis clinic?**

Context: Asymptomatic and pre-symptomatic dissemination of the SARS-CoV-2 is an important root cause of the COVID-19 pandemic. As many as 40-45% of general population experience asymptomatic or pre-symptomatic infection. Emerging literature from skilled nursing facilities and in-center hemodialysis clinics suggest similar prevalence of asymptomatic or pre-symptomatic infection.

# Dialysis Staff

- **How's morale?**
  - Have staff felt listened to? Valued?
  - What do we need to improve?
- **Testing**
- **Safety and limiting exposure:**
  - Minimizing unnecessary in-person contact
- **Resourcing:**
  - Policies to rotating staff, other creative approaches
  - Bonuses & recognition

Panelists:

Laurie Amburn (Henry Ford Hospital)

Kathy Bernardelli (Henry Ford Hospital)

Jayson Hood (Northwest Kidney Centers)



# In-Center HD Practices

- **Any changes to HD prescription**
  - Sessions/week
  - Session length (treatment time)
  - Other
- **Vascular access procedures**
- **Patient adherence**
  - More skipped treatments, or fewer?
  - Other
- **Dieticians, social workers**
  - Redeployment, new roles?

# Transportation

# Home Dialysis

- **Challenges and successes:**
  - Delivery of supplies
  - Telemedicine (next slide)
  - Other
- **Home nurse experience**

Panelists:

Jayson Hood (NKC)

Rachel Perlman (Michigan)

Vesh Srivatana (Rogosin)

Laurie Amburn (GHS)

# Telemedicine/Digital Technologies

- **What new approaches have been successful?**
- **How should we prepare better next time: staff/patient training, patient support**
- **Is dialysis care changed forever?**

# Use of Home v. In-center Dialysis

- **Are more patients:**
  - Being switched to home dialysis from ICHD?
  - Using home dialysis (vs ICHD) as initial modality?
- **Are patients more likely to express interest in switching to (or starting on) home dialysis?**
- **What does future (next 1-2 years) hold?**

# Preparing for Flu Season

- **‘New normal’**
  - **Screening and transmission-based precautions**
  - **Enhanced environmental cleaning**
  - **Greater use of telehealth**

# Lessons Learned

## Preparing for the next time...

- **No advance preparation/precaution is too much**
- **Create plan for cohorting units/shifts to deploy when needed**
- **Staff support: policies for rotating staff, minimizing unnecessary in-person contact, etc.**
- **Telemedicine**
- **Communication, transparency, and leadership**
- **Other comments**

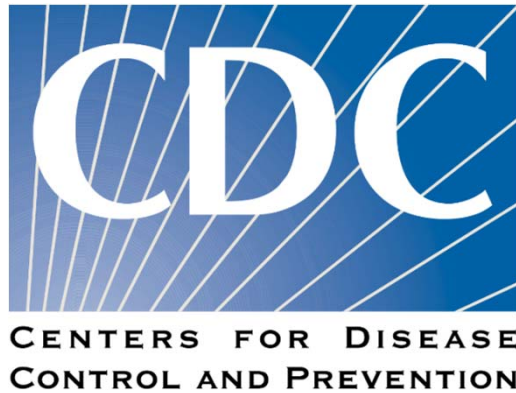
# Resources



<https://esrdncc.org/covid-19>



<https://www.kcercoalition.com/en/covid-19/>



<https://www.cdc.gov/coronavirus/2019-ncov/>



<https://www.asn-online.org/covid-19/>  
(also NTDS)



- Today's presentation will be available to view and listen to on [Arbor Research Collaborative for Health's YouTube channel](#) during the next week
- Follow us [\*\*@DOPPStudy\*\*](#)
- Use [\*\*#DOPPS\*\*](#) for tweets about today's presentation



DIALYSIS OUTCOMES AND  
PRACTICE PATTERNS STUDY

**US DOPPS Practice Monitor**

***Thanks again!!***

**For your participation today**

**Next data update: Nov 2020**

**Next webinar: Dec 2020**

