

Discovery Research Network PREP Influenza Study
PULSE Component

1. YOUR PRIMARY ROLE

What is your primary practice setting?

- a. ED and ICU
- b. Emergency Department (ED)
- c. Intensive Care Unit (ICU)

Will you be responding on behalf of one ICU or all ICUs at your hospital?

- a. My ICU (the ICU where I usually practice)
 - b. All ICUs at my hospital
-

2. SYSTEM STRESS – PAST 24 HOURS

Is your unit experiencing significant stress TODAY
due to patients with influenza?

- ☐ No stress (nothing being done differently)
- ☐ Process and/or staffing altered, but fully compensating (no patient harm)
- ☐ Process and/or staffing altered, and/or resources not available, resulting in potentially avoidable patient harm

Is your ED experiencing significant stress TODAY
due to patients with influenza?

- ☐ Yes
- ☐ No

Is your ICU experiencing significant stress TODAY
due to patients with influenza?

- ☐ Yes
- ☐ No

Are you having to do anything differently TODAY as
a result of patients with influenza?

- ☐ YES
- ☐ NO

If YES, please choose ALL that apply:

- ☐ Denying transfers
 - ☐ Boarding more hospital admissions than usual (including ICU admissions) in the Emergency Department
 - ☐ Cancelling Operating Room cases
 - ☐ Increase staffing
 - ☐ Changing staff schedules
 - ☐ Other _____
-

1. System stress – last 7 days

In the past WEEK, has your facility been unable to
transfer a patient to a referral facility whose needs exceeded
the current, local capabilities due to influenza patients?

- ☐ YES
- ☐ NO

In the past WEEK, has your facility been unable to
accept a patient with life-threatening suspected/
confirmed influenza from a referring facility whose

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needs have exceeded the referring facility's capabilities?

- ☐ YES
- ☐ NO

2. Treatment – past 24 hours

Is there anything essential needed TODAY for the influenza patients that you have not been able to obtain?

- ☐ YES
- ☐ NO

For patients in your ED with confirmed influenza, how many patients TODAY are receiving the following:

- IV Peramivir _____
- Mechanical ventilation _____
- ECMO support _____
- Neuromuscular blockade _____
- Prone positioning _____
- Inhaled vasodilators (nitric oxide or prostacyclin) _____

At the time that you are responding to this poll, what is the number of ICU patients in the ED waiting for ICU beds?

For patients in your ICU with confirmed influenza, how many patients TODAY are receiving the following:

- IV Peramivir _____
- Mechanical ventilation _____
- ECMO support _____
- Neuromuscular blockade _____
- Prone positioning _____
- Inhaled vasodilators (nitric oxide or prostacyclin) _____

3. Patients – last 7 days

For patients in your ICU with confirmed influenza, are they mostly high-risk patients? [High-risk = infants aged <2 years; adults 65 years and older; pregnant women, persons with chronic medical conditions (chronic pulmonary, cardiac, neurologic, renal, hepatic, endocrine; metabolic, hematologic disorders, immunosuppression, persons aged <19 years receiving long-term aspirin therapy; extreme obesity (BMI >40); residents of long-term care facilities; American Indians or Alaska Natives. See: https://www.cdc.gov/flu/about/disease/high_risk.htm]

- ☐ YES
- ☐ NO

Have most patients in your ICU with confirmed influenza received influenza vaccination this season?

- ☐ YES
- ☐ NO
- ☐ Don't know

Were most patients in your ICU with confirmed influenza started on antiviral treatment for influenza before ICU admission?

- ☐ YES
- ☐ NO
- ☐ Don't know

Table 1. Site participation across influenza season (January - April 2018)

Site Information			Site Response by Week																
			Jan 3-5	Jan 10-12	Jan 17-19	Jan 24-26	Jan 31-Feb2	Feb 7-9	Feb 14-16	Feb 21-23	Feb 28-Mar2	Mar 7-9	Mar 14-16	Mar 21-23	Mar 28-30	Apr 4-6	Apr 11-13	Apr 18-20	Apr 25-27
	# ICUs	# Beds																	
Albert Einstein College of Medicine - Montefiore Medical Center	2	76	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y
Boston Children's Hospital - Harvard University	4	101	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Duke University School of Medicine	3	80	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	N	N	Y	N	Y	Y
Emory University School of Medicine	1	17	--	--	--	--	--	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
John Hopkins University	5	70	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
St. Agnes Hospital and Healthcare System	1	16	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
University of Arizona, College of Medicine	1	18	--	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
University of California, Los Angeles (UCLA)	1	24	N	Y	Y	Y	Y	Y	Y	Y	N	N	Y	N	Y	N	N	N	N
University of Kentucky	3	100	Y	Y	N	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
University of Washington	1	20	--	--	--	Y	Y	Y	N	Y	N	Y	Y	N	N	N	N	Y	N
University of Michigan	2	35	N	Y	Y	Y	Y	Y	N	N	N	N	Y	N	Y	Y	Y	Y	N
University of Southern California (USC)	2	40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	Y	N
Washington University School of Medicine in St. Louis	1	36	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Sites responding (N)			7	11	8	12	12	13	9	12	9	11	12	9	9	11	10	12	9
Sites Active (N)			10	11	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13
Response Rate (%)			70	100	73	100	100	100	69	92	69	85	92	69	69	85	77	92	69

Note: Site active is determined by IRB approval date; Y = Site responded, N = site did not response; -- indicates that a site is not active

Table 2. Current Intensive Care Unit Stress, as Reported During the 2017/2018 Flu Season

[illegible]

Past week: unable to accept a patient with life-threatening suspected/confirmed influenza from a referring facility.	14%	27%	25%	25%	42%	31%	11%	25%	22%	-	8%	-	-	-	-	8%	-
Not been able to obtain essential needs today.	-	9%	-	-	8%	-	-	-	-	-	-	-	-	-	-	-	-

Only “yes” answers represented in the table for clarity; * Other differences included " boarder patient in intermediate care unit" and "many patient on droplet precautions in hospital. limited supply of mask and nasal swab kits"