

Intro

Welcome! Thank you for taking our follow-up survey.

Please take a moment to read the below information and then click the yellow arrow at the bottom of the page to begin.

Our research

We are conducting a study of critical care physicians in an effort to understand factors that affect clinical decision making over time. The study is led by Dr. Jeremy Kahn at the University of Pittsburgh and is funded by the National Institutes of Health.

Your role

We are asking you to complete this survey because you completed our first survey during the spring of 2020. This is the second survey. We anticipate sending a total of 1-3 additional surveys, all of which will be compensated at a target rate of at least \$400/hr.

We expect this survey to take 6 minutes and we will compensate you \$75 for your time. Your participation is voluntary and you may withdraw at any time.

Risks & benefits

There are no foreseeable risks or benefits associated with your participation in this study.

Data & privacy

All data will be housed on a secure server located at the University of Pittsburgh. Identifiable responses will only be available to the research team. If data are shared with other researchers, they will be stripped of identifiers in accordance with IRB regulations.

Contact

You may contact the principal investigator, Jeremy Kahn, at jeremykahn@pitt.edu or (412) 383-0839. You may also contact the co-investigator, Joel Levin, at joel.levin@pitt.edu or (412) 260-5714.

Thank you!

We are excited about the potential of this work to lead to improved patient outcomes, and we are grateful to you for helping us towards that end.

Today's survey

In this survey, we will ask for your professional judgments about **two clinical scenarios**, after which we will ask a short series of additional questions.

When you proceed to the next page, we will show you the first clinical scenario.

Vitamin C

This is the first of two clinical scenarios.

A previously healthy \${e://Field/vitc_age} year old \${e://Field/vitc_gender} is admitted to the ICU from the emergency department after presenting with fever, leukocytosis, and clinical signs of \${e://Field/vitc_description}. In the emergency department blood cultures were sent and broad spectrum IV antibiotics were given. On admission to the ICU \${e://Field/vitc_heshe} is somnolent, tachypneic, hypotensive, and anuric. \${e://Field/vitc_capital_HisHer} arterial lactate level is 2.7.

You intubate \${e://Field/vitc_himher} for airway protection, insert a central venous catheter, and give \${e://Field/vitc_himher} IV fluids. After an appropriate fluid resuscitation \${e://Field/vitc_heshe} remains hypotensive and you start an infusion of IV norepinephrine.

Based on the above information, **would you treat this patient with an infusion of IV vitamin C and thiamine** (i.e. vitamin C 1.5 g every 6 hours and thiamine 200 mg every 12 hours)?

Definitely would notProbably would not

Probably would



Definitely would

**Vitamin C Measures**

In your opinion, what is the **quality of the empirical evidence** about whether or not vitamin C and thiamine are effective?

Lowest quality



Low quality



Moderate quality



High quality



Highest quality



For vitamin C and thiamine, how well defined is the **mechanism of action**?

Not at all well
defined

Slightly well defined

Moderately well
defined

Well defined



Very well defined



For the most recent clinical scenario, you indicated that you would treat the patient with IV vitamin C and thiamine.

What percentage of other physicians taking this survey do you think made the same choice?

None of them

All of them

0

25

50

75

100

For the most recent clinical scenario, you indicated that you would not treat the patient with IV vitamin C and thiamine.

What percentage of other physicians taking this survey do you think made the same choice?

None of them

All of them

0

25

50

75

100

Bonus! To make it interesting, we are going to compare your estimate to what other physicians taking this survey actually said they would do. The two physicians with the most accurate estimates will each receive an **additional \$100** in compensation. So give us your best guess!

You can learn more about how we will score this estimation by clicking [here](#).

COVID-19

This is the second and final clinical scenario.

A previously healthy \${e://Field/covid_age} year old \${e://Field/covid_gender} is admitted to the ICU from the emergency department after presenting with fever, dry cough, and shortness of breath. Yesterday, \${e://Field/covid_heshe} was seen in an outpatient clinic where \${e://Field/covid_heshe} tested positive for the SARS-CoV-2 infection (i.e. COVID-19) and was told to self-quarantine.

In the emergency department, \${e://Field/covid_heshe} experienced progressive dyspnea and was intubated for respiratory failure. The patient takes no medications at home, there are no contraindications to any specific medicines, and the EKG is normal. Enrolling \${e://Field/covid_himher} in a clinical trial is not an option.

Based on the above information, please answer the following questions about treating this patient. Assume that all drugs are on your hospital's formulary and are available to give.

Would you treat this patient with a **quinine-based anti-malarial (e.g., chloroquine or hydroxychloroquine)**?

Definitely would not

☐

Probably would not

☐

Probably would

☐

Definitely would

☐

Would you treat this patient with a **corticosteroid (e.g., hydrocortisone or dexamethasone)**?

Definitely would not

☐

Probably would not

☐

Probably would

☐

Definitely would

☐

Would you treat this patient with **Remdesivir**?

Assume that you have access to Remdesivir and that administering it to this patient will not affect the supply available for other patients.

Definitely would not

☐

Probably would not

☐

Probably would

☐

Definitely would

☐

Next, we are going to ask you three follow up questions about each of these treatments.

COVID-19 Measures Steroids

These questions are about corticosteroids.

Note that these questions appear in random order.

In your opinion, what is the **quality of the empirical evidence** about whether or not corticosteroids (e.g., hydrocortisone or dexamethasone) are effective for COVID-19?

Lowest quality



Low quality



Moderate quality



High quality



Highest quality



For corticosteroids (e.g., hydrocortisone or dexamethasone), how well defined is the **mechanism of action** in COVID-19?

Not at all well
defined



Slightly well defined



Moderately well
defined



Well defined



Extremely well
defined



In the last scenario, you indicated that you would not treat the COVID patient with corticosteroids (e.g., hydrocortisone or dexamethasone).

What percentage of other physicians taking this survey do you think made the same choice?

None of them

All of them

0

25

50

75

100

In the last scenario, you indicated that you would treat the COVID patient with corticosteroids (e.g., hydrocortisone or dexamethasone).

What percentage of other physicians taking this survey do you think made the same choice?

	None of them		All of them	
0	None of them	50	All of them	100
0	25	50	75	100

Bonus! To make it interesting, we are going to compare your estimate to what other physicians taking this survey actually said they would do. The two physicians with the most accurate estimates will each receive an **additional \$100** in compensation. So give us your best guess!

You can learn more about how we will score this estimation by clicking [here](#).

COVID-19 Measures Remdesivir

These questions are about Remdesivir.

Note that these questions appear in random order.

In your opinion, what is the **quality of the empirical evidence** about whether or not Remdesivir is effective for COVID-19?

Lowest quality Low quality Moderate quality High quality Highest quality

☐ ☐ ☐ ☐ ☐

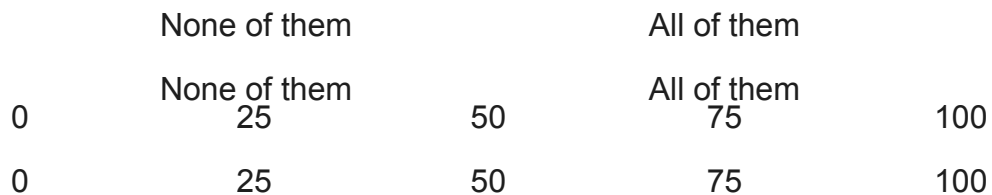
For Remdesivir, how well defined is the **mechanism of action** in COVID-19?

Not at all well defined Slightly well defined Moderately well defined Well defined Extremely well defined

☐ ☐ ☐ ☐ ☐

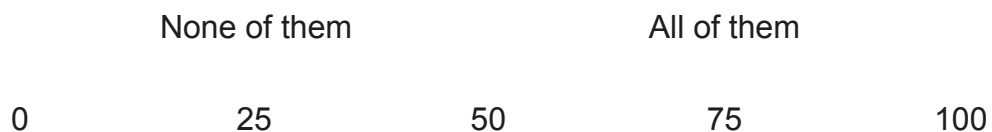
In the last scenario, you indicated that you would not treat the COVID patient with Remdesivir.

What percentage of other physicians taking this survey do you think made the same choice?



In the last scenario, you indicated that you would treat the COVID patient with Remdesivir.

What percentage of other physicians taking this survey do you think made the same choice?



Bonus! To make it interesting, we are going to compare your estimate to what other physicians taking this survey actually said they would do. The two physicians with the most accurate estimates will each receive an **additional \$100** in compensation. So give us your best guess!

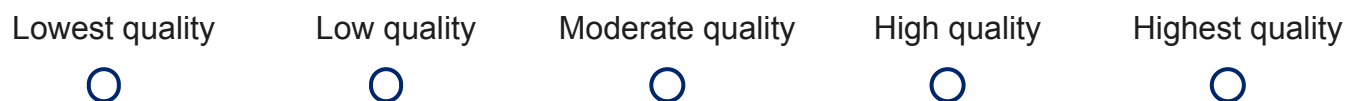
You can learn more about how we will score this estimation by clicking [here](#).

COVID-19 Measures Quinine

These questions are about quinine-based anti-malarials.

Note that these questions appear in random order.

In your opinion, what is the **quality of the empirical evidence** about whether or not quinine-based anti-malarials (e.g., chloroquine or hydroxychloroquine) are effective for COVID-19?



For quinine-based anti-malarials (e.g., chloroquine or hydroxychloroquine), how well defined is the **mechanism of action** in COVID-19?

Not at all well
defined

Slightly well defined

Moderately well
defined

Well defined

Extremely well
defined

In the last scenario, you indicated that you would not treat the COVID patient with quinine-based anti-malarials (e.g., chloroquine or hydroxychloroquine).

What percentage of other physicians taking this survey do you think made the same choice?

None of them

All of them

0

25

50

75

100

In the last scenario, you indicated that you would treat the COVID patient with quinine-based anti-malarials (e.g., chloroquine or hydroxychloroquine).

What percentage of other physicians taking this survey do you think made the same choice?

None of them

All of them

0

25

50

75

100

Bonus! To make it interesting, we are going to compare your estimate to what other physicians taking this survey actually said they would do. The two physicians with the most accurate estimates will each receive an **additional \$100** in compensation. So give us your best guess!

You can learn more about how we will score this estimation by clicking [here](#).

Clinical evidence skepticism

Great! You are nearly done. Before we finish up, please indicate your level of agreement with the following statements:

Please indicate your level of agreement with the following statements.

I tend to reserve judgment about the effectiveness of a new treatment until I've seen it work on my own patients.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I tend to value expert opinion over published scientific evidence.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Research is no substitute for the astute observation of a physician at the bedside.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The simplicity of clinical trials belies the complexity of caring for real patients.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Clinical trials frequently fail to measure outcomes that matter for my patients.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Trialists would be well served by spending more time in a clinical setting.

Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



The people who conduct clinical trials are often motivated by incentives other than discovering the best treatments for patients.

Strongly disagree



Somewhat disagree



Neither agree nor disagree



Somewhat agree



Strongly agree



Even the best randomized controlled trials often fail to produce actionable insights.

Strongly disagree



Somewhat disagree



Neither agree nor disagree



Somewhat agree



Strongly agree



It's not uncommon for clinical trials to get things wrong.

Strongly disagree



Somewhat disagree



Neither agree nor disagree



Somewhat agree



Strongly agree



The results of clinical trials frequently don't generalize to patients in the real world.

Strongly disagree



Somewhat disagree



Neither agree nor disagree



Somewhat agree



Strongly agree



Closing

You're in the home stretch!

We last surveyed you in late April or early May of this year. Have you changed jobs since then?

No



Yes



Congratulations on the new job!

Which of these best describes your practice setting?

- ☐ Academic, university affiliated
- ☐ Academic, not university affiliated
- ☐ Community
- ☐ Other

Over the past year, what proportion of your professional time was spent in direct practice of critical care?

- ☐ All or almost all (95% or more)
- ☐ More than 50% but less than 95%
- ☐ Less than 50%
- ☐ None

How would you describe your political ideology?

- ☐ Very liberal
- ☐ Somewhat liberal
- ☐ Slightly liberal
- ☐ Middle of the road
- ☐ Slightly conservative
- ☐ Somewhat conservative
- ☐ Very conservative

You're all done with the research questions!

What would you like us to do with your \$75?

Send it to me

☐

Use it for research

☐

Great! Did you receive a payment card in exchange for completing our first survey?

- ☐ Yes, and I still have the card
- ☐ Yes, but I no longer have the card
- ☐ No
- ☐ I'm not sure

Thanks for holding on to the card. **Please provide us with the last four digits of your card number, below.**

To make sure that we have the correct information on file, please enter your **full name** below.

Note: Please do not use your card for now. We will send you an update as soon as the additional \$75 has been added to your card.

Please advance to the next page to complete the survey.

You will receive a new card in a few weeks, along with instructions on how to use it.

Please advance to the next page to complete the survey.

Participant payment information

Please provide the following information so that we can reimburse you with a University of Pittsburgh Vincent Payment Card. Vincent Payment Cards are anonymous MasterCard branded, store-value debit cards.

Please note, you may choose to stop answering questions and exit this form at any point, but **providing incomplete information will affect our ability to process your payment.**

You will receive your new card in a few weeks, along with instructions on how to use it.

Since you're not sure whether we paid you in the past, we're going to ask you to provide some information that will allow us to reimburse you with a new University of Pittsburgh Vincent Payment Card. Vincent Payment Cards are anonymous MasterCard branded, store-value debit cards.

Please note, you may choose to stop answering questions and exit this form at any point, but **providing incomplete information will affect our ability to process your payment.**

You will receive a new card in a few weeks, along with instructions on how to use it.

What is your first name?

What is your last name?

What is your phone number?

What is your address?

Address Line 1

Address Line 2

City

State

Zip Code

What is your date of birth?

Month

Date
Year

Powered by Qualtrics

