

[Final Outcomes]

#### **Program Overview**

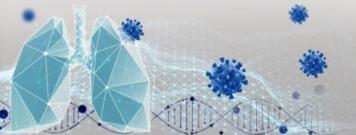
This educational initiative was composed of three activities designed to improve the awareness, knowledge, and competence of physicians in the comprehensive diagnosis, assessment, and management of patients with COVID-19 and chronic lung disease. The two live webinar presentations provided opportunities for specialists and healthcare providers to engage with and ask questions of expert faculty who are treating patients with COVID-19 in both inpatient and outpatient settings. Expert faculty described the key concepts in the pathophysiology and immunology of COVID-19, addressed the latest treatment options for patients with COVID-19, and discussed how chronic lung disease factors into treatment strategies, as well as how to manage those patients even after COVID-19. An online enduring activity recorded from the live webinars provided greater reach to clinicians treating patients affected by these conditions. This activity was updated to remain relevant as COVID-19 evolves.

#### **Learning Objectives**

- Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response.
- Discuss strategies for managing patients with COVID-19 and chronic lung disease.
- Evaluate current and emerging therapies for patients with COVID-19 and chronic lung disease.







### **Faculty Presenters**

#### [Final Outcomes]

#### Anthony N. Gerber, MD, PhD

Professor of Medicine
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
Department of Biomedical Research
National Jewish Health
Denver, CO



Associate Professor
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
Interstitial Lung Disease Program
Autoimmune Lung Center
National Jewish Health
Denver, CO

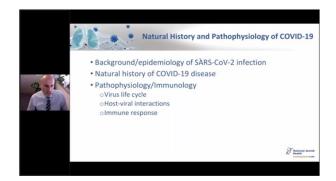
#### Joshua J. Solomon, MD

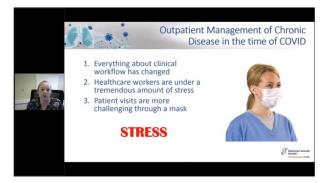
Associate Chief, Section of Critical Care
Associate Professor
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
National Jewish Health
Denver, CO

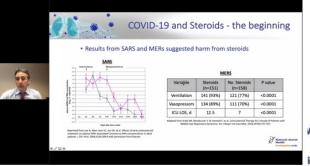






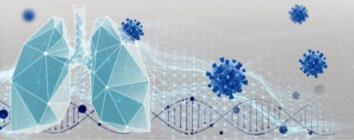












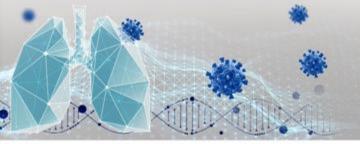
### **Award Winning Program**

[Final Outcomes]



This program was awarded the Outstanding CME/CPD Activity Award from the Colorado Alliance for Continuing Medical Education (CACME) during their 2021 Annual Conference.





[Final Online Outcomes]

# Online Enduring Program Launched 8/20/2020

https://learning.freecme.com/a/35256PAnDMvU





#### Vaccine Update

- Two vaccines have recently been authorized for emergency use (EUA) in the United States.
- These and several other vaccines have also been authorized/or are in process of being authorized in many other countries.
- The two US authorized vaccines, BNT162b2 (Pfizer BioNTech) and mRNA-1273 (Moderna) are both RNA vaccines that generate a host antibody response against the spike protein with the RBD (receptor binding domain) of SARS-CAV-2
- Both authorized vaccines require two doses over a 3 to 4-week period.
- Protective immunity begins to develop about 12 days after the first dose of BNT162b2 (Pfizer BioNTech), but longer-lived and maximal protection only develops several days after the second dose
- Similar overall efficacy data for two dose regimen for BNT162b2 (Pfiz.

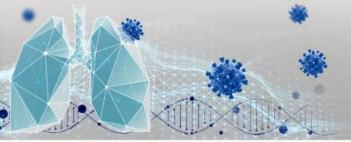
  BioNTock) and mPNA 1373 (Moderna)

Updates to the program were provided throughout the year as new data and treatment options emerged

- 1) January 2021: vaccine update, inpatient management update (convalescent plasma, tocilizumab, remdesivir, baricitinib), and bamlanivimab
- **2) July 2021**: post-COVID fibrosis, COVID-19 and variants, and monoclonal antibody therapies for COVID-19

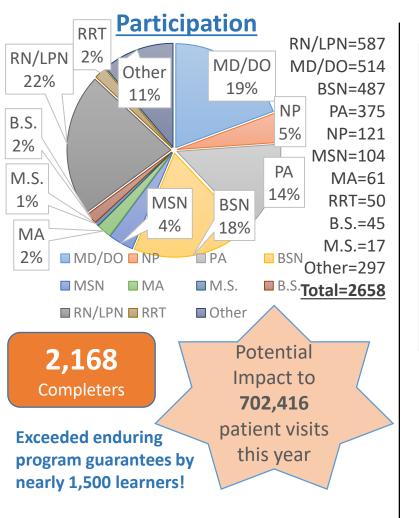
"I appreciated that they updated the presentation when new information became available." – Online enduring program learner



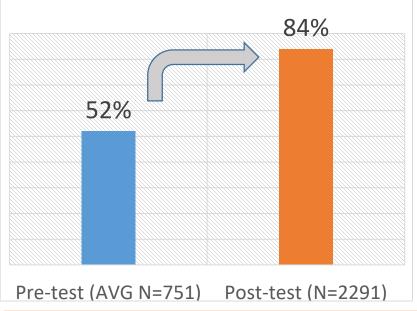


[Final Online Outcomes]

### Quantitative Educational Impact Summary: Final Online Enduring Program







62% Relative Knowledge Gain

**32%** Absolute Knowledge Gain

#### **Top 3 Intended Practice Changes**

**88%** of evaluation respondents (N=2168) reported they intend to make changes to their practice

- ✓ Apply knowledge to practice and keep up-to-date with changing information
- ✓ Treatment and management of COVID-19
- ✓ Assessment of signs and symptoms

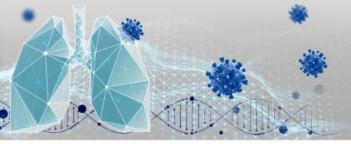
65%

NI-216

Evaluation respondents indicated the activity addressed strategies for overcoming barriers to optimal patient care

"The educational design of this activity was useful, effective and provided opportunities for interactivity."

- Online enduring program learner



[Final Online Outcomes]

### Qualitative Educational Impact Summary: Final Online Enduring Program

#### **Participants**

2,658

**Total Learners** 

Who see

13,508

COVID Patients
Weekly

Which translates to 702,416 Potential patient Visits
Annually

#### **Educational Impact**

**35**% relative knowledge gain seen from learners regarding describing clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response. [N=2291]

**142**% relative knowledge gain seen from learners in regards to evaluating current and emerging therapies for patients with COVID-19 and chronic lung disease [N=2291]

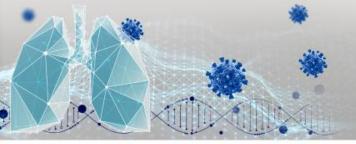
**180%** relative knowledge gain seen from learners in discussing strategies for managing patients with COVID-19 and chronic lung disease [N=2291]

#### **Intended Practice Change**

**88%** of evaluation respondents reported they intended to make changes to their practice as a result of the educational activity [N=2168]

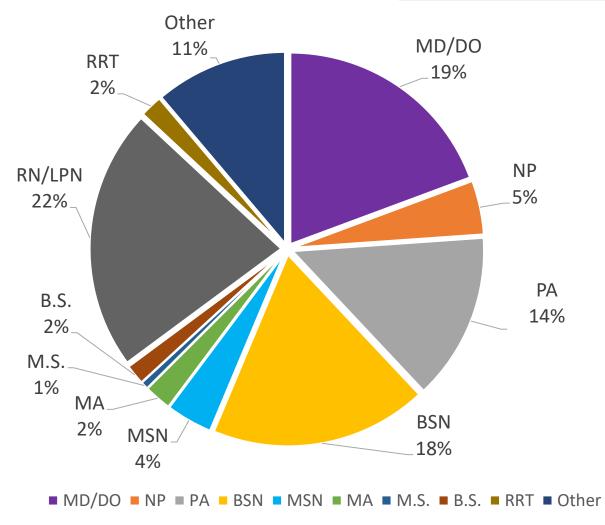
**65%** of evaluation respondents indicated the activity addressed strategies for overcoming barriers to optimal patient care [N=2168]

"I think the activity was outstanding. There was so much to take away from the knowledge presented" —
Online enduring program learner

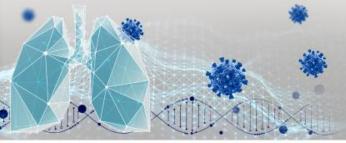


[Final Online Outcomes]

#### Level 1 Outcomes: Final Online Enduring Program: Participation by Degree

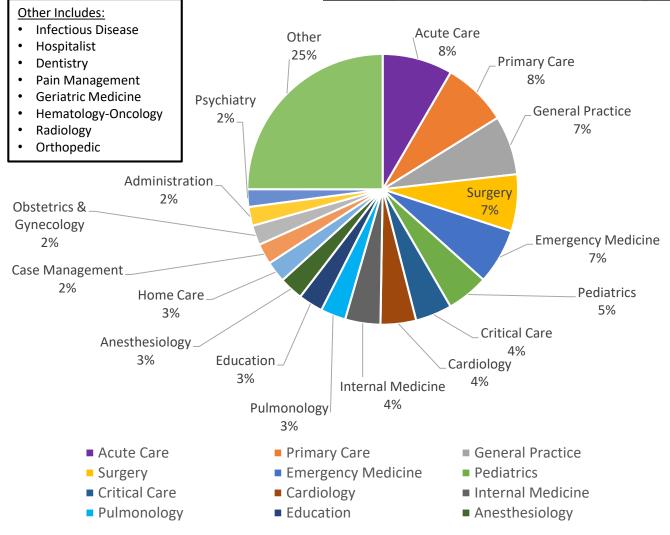


Degree	Total
RN/LPN	587
MD/DO	514
BSN	487
PA	375
NP	121
MSN	104
MA	61
RRT	50
B.S.	45
M.S.	17
Other	297
Total	2,658

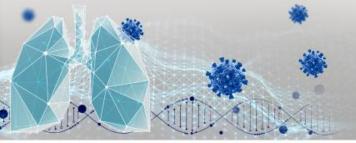


# The Intersection of COVID-19 and Chronic Lung Disease: Treating Real World Issues with Evolving Data [Final Online Outcomes]

Level 1 Outcomes: Final Online Enduring Program: Participation by Specialty



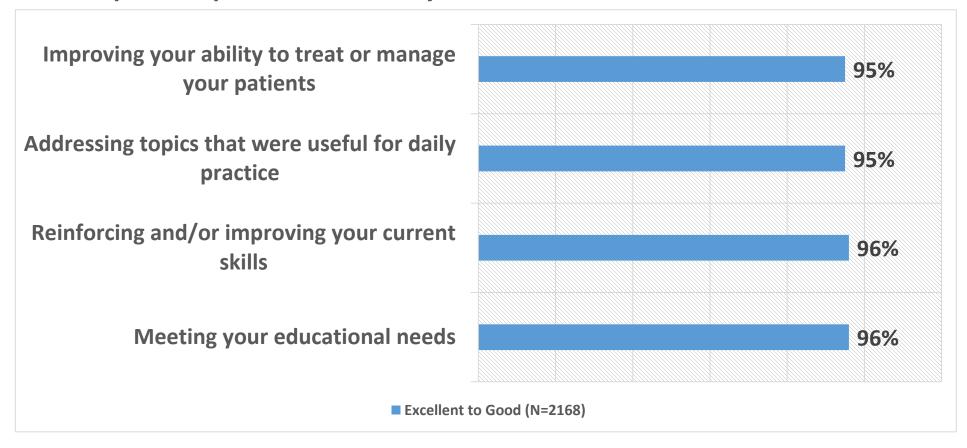
ogrami. Farticipation	by Specialty
Specialty	Total
Acute Care	223
Primary Care	206
General Practice	188
Surgery	181
Emergency Medicine	176
Pediatrics	133
Critical Care Medicine	116
Cardiology	113
Internal Medicine	112
Pulmonology	80
Education	78
Anesthesiology	76
Home Care	67
Case Management	66
Obstetrics & Gynecology	63
Administration	60
Psychiatry	56
Other	664
Total	2,658



[Final Online Outcomes]

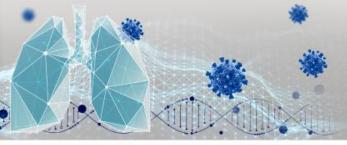
### Level 2&3 Outcomes: Learning & Satisfaction – Final Online Enduring Program

Analysis of participant responses related to educational needs
Participants reported the activity was "Excellent" to "Good" at:



high levels of satisfaction related to the ability of the activity to impact practical applications

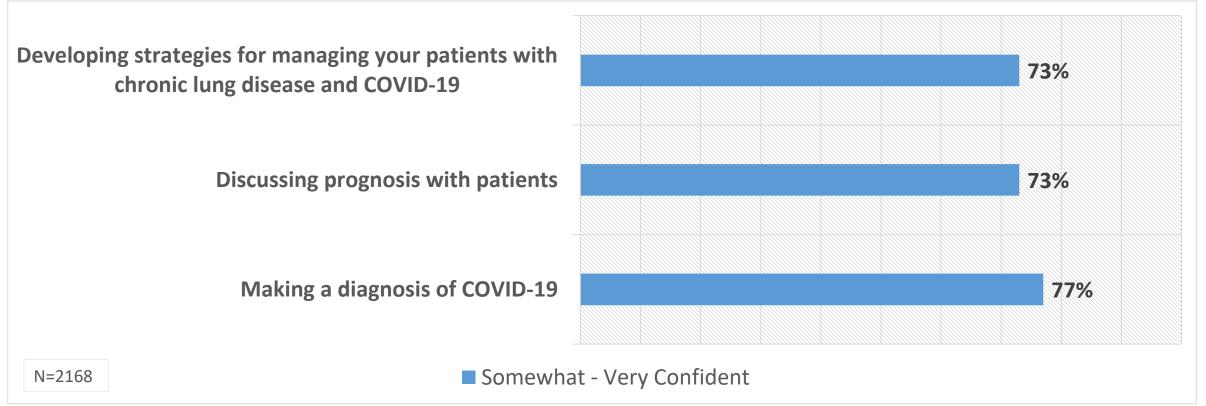




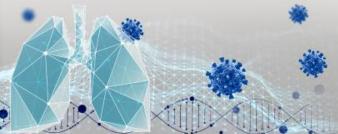
# The Intersection of COVID-19 and Chronic Lung Disease: Treating Real World Issues with Evolving Data [Final Online Outcomes]

### Level 2&3 Outcomes: Learning & Satisfaction - Final Online Enduring Program

Analysis of learner responses related to confidence after the activity from "somewhat to very confident"



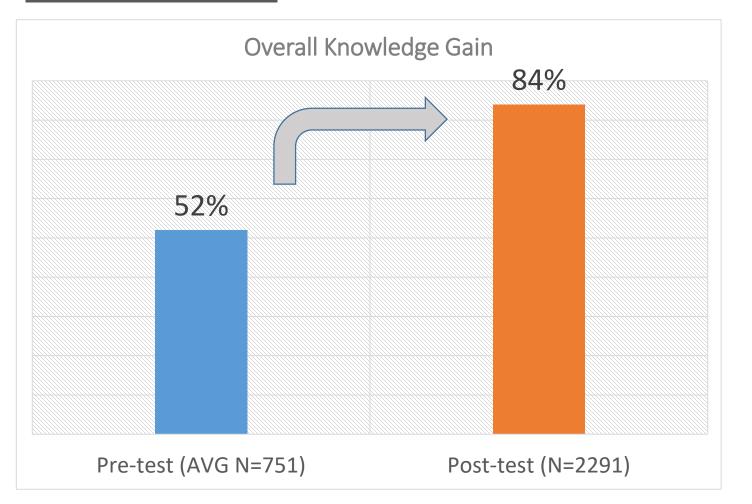


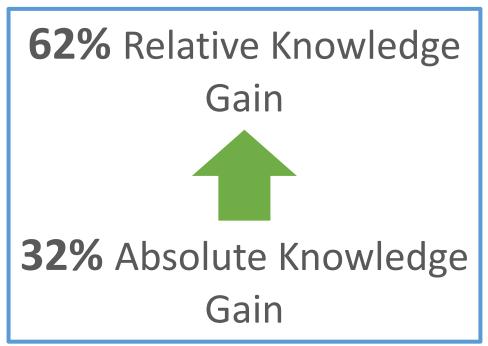


# The Intersection of COVID-19 and Chronic Lung Disease: Treating Real World Issues with Evolving Data [Final Online Outcomes]

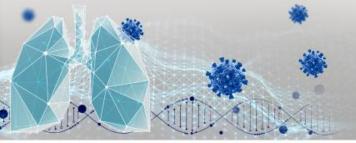
Level 3 Outcomes (Knowledge): Final Online Enduring Program: Overall

**Knowledge Gain** 



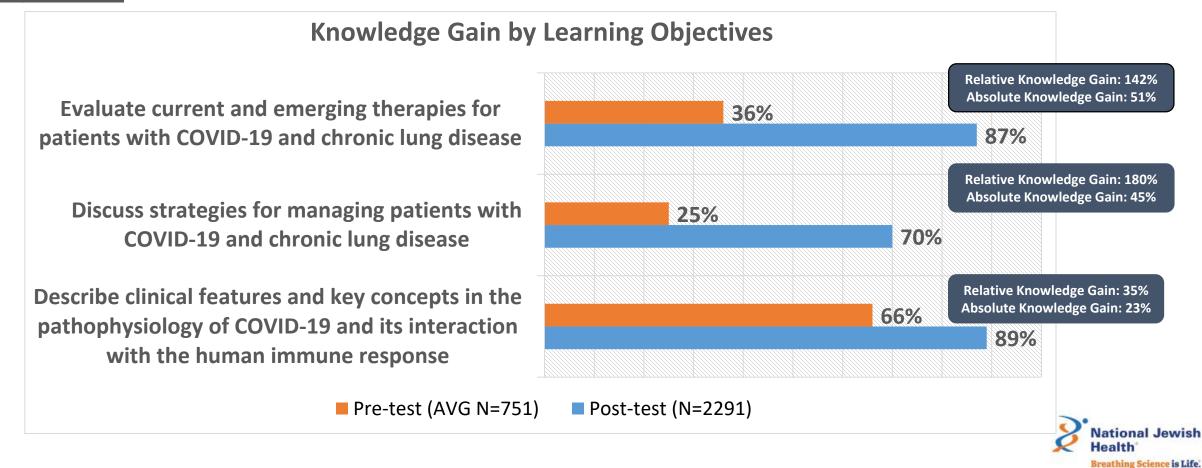


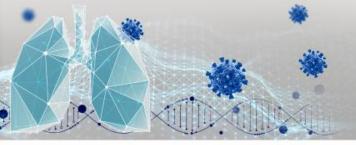




[Final Online Outcomes]

### Level 3 Outcomes (Knowledge) – <u>Final Online Enduring Program: By Learning</u> Objective



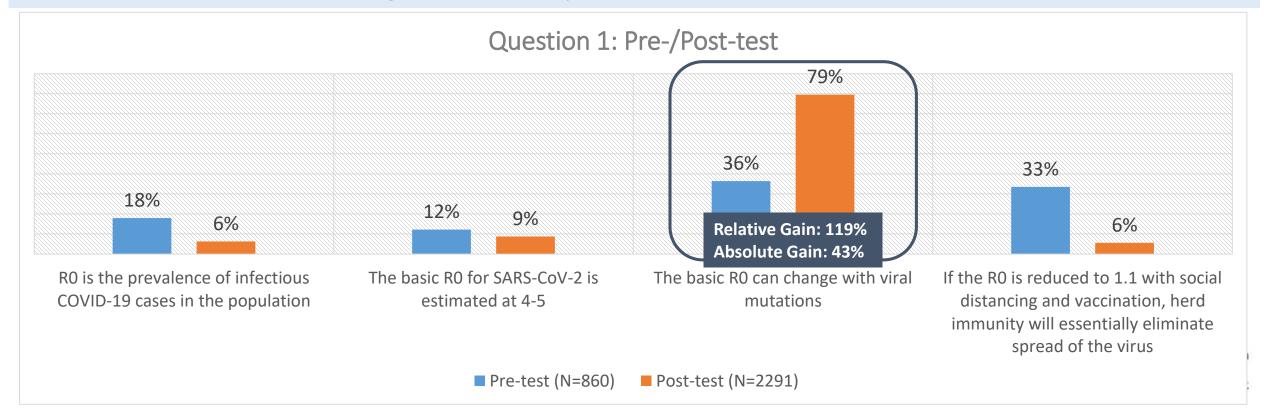


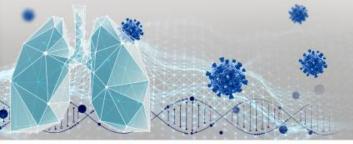
[Final Online Outcomes]

### Level 3 Outcomes (Knowledge): Final Online Enduring Program: Question 1

Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

Question 1: Which of the following is true with respect to disease transmission of COVID-19?



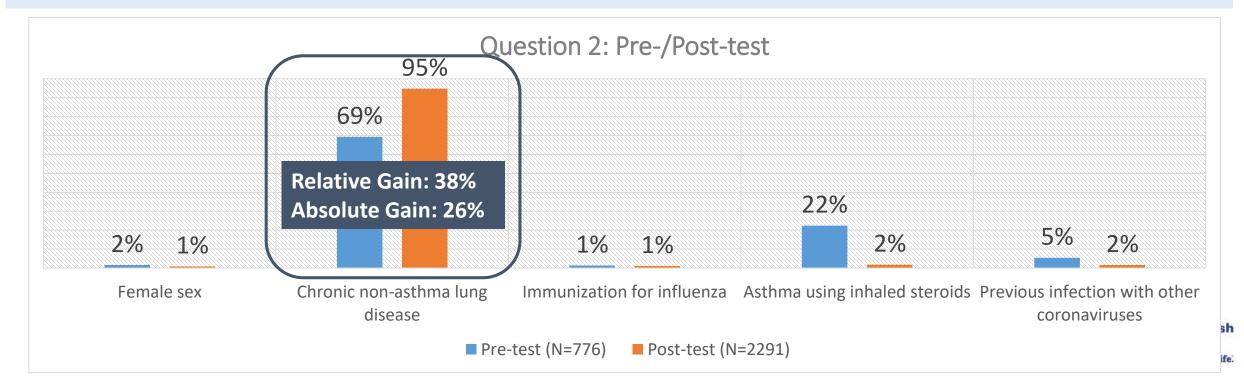


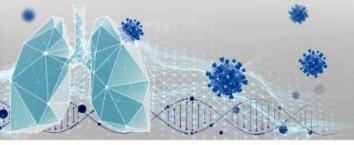
[Final Online Outcomes]

#### Level 3 Outcomes (Knowledge): Final Online Enduring Program: Question 2

Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

**Question 2:** Other than older age, which of the following is a known risk factor with a hazard ratio of 1.5 or greater for developing severe COVID-19 disease?



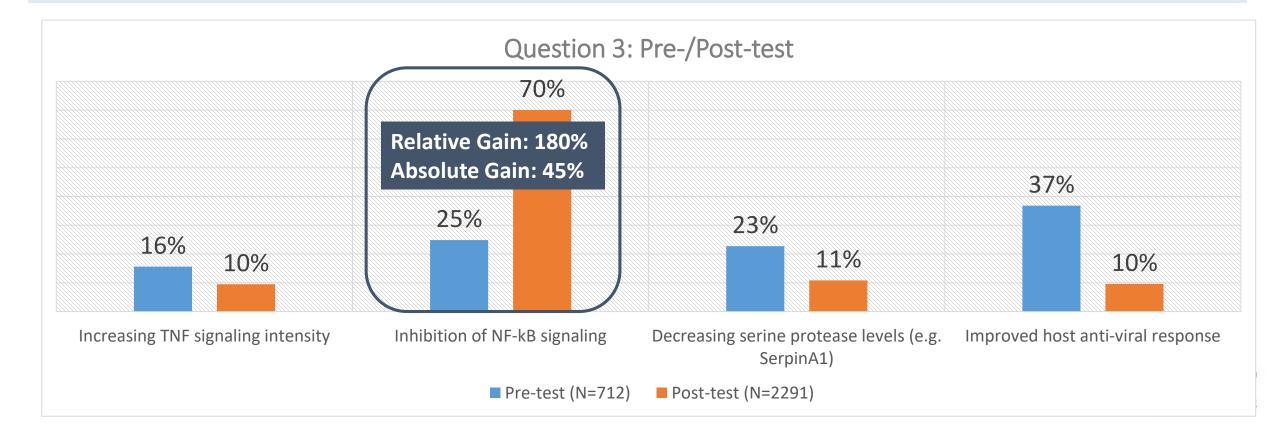


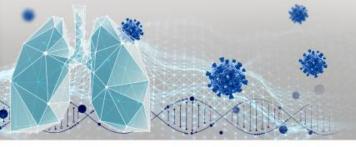
[Final Online Outcomes]

#### Level 3 Outcomes (Knowledge): Final Online Enduring Program: Question 3

Learning Objective: Discuss strategies for managing patients with COVID-19 and chronic lung disease

Question 3: Which of the following is likely to mediate efficacy of dexamethasone in COVID-19?



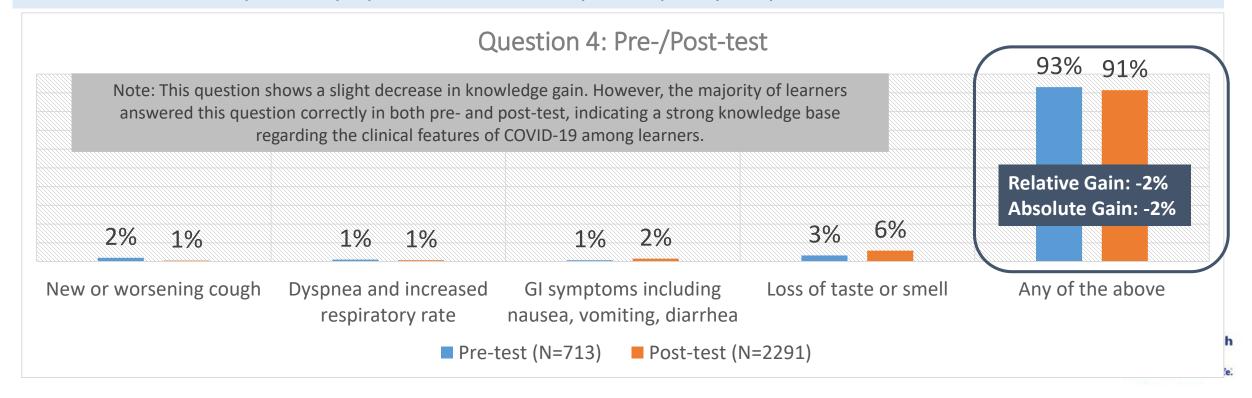


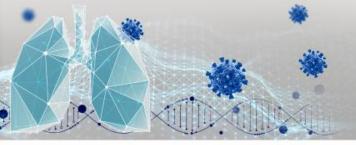
[Final Online Outcomes]

#### Level 3 Outcomes (Knowledge): Final Online Enduring Program: Question 4

Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

Question 4: What reported symptoms would make you suspect your patient had COVID?



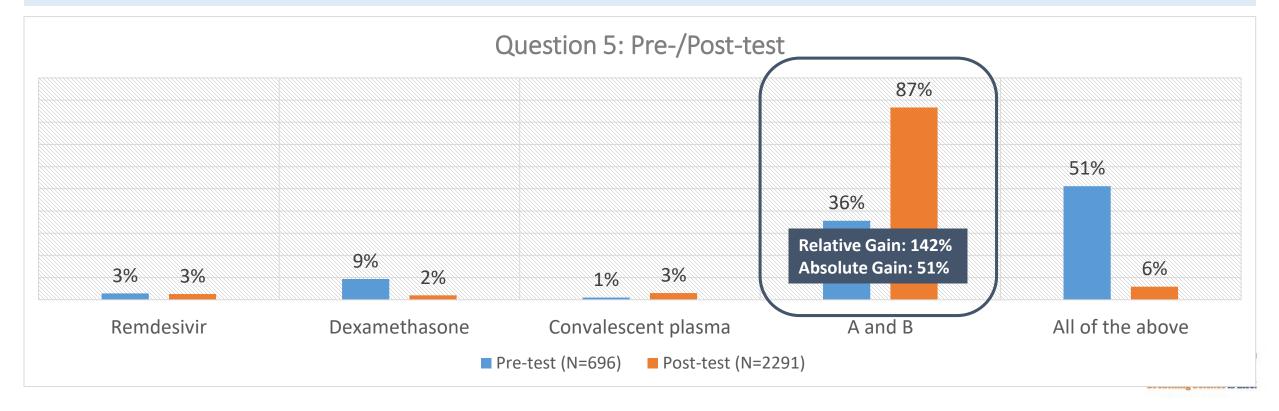


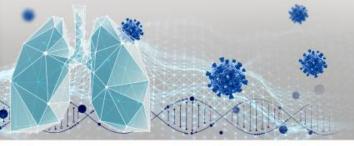
[Final Online Outcomes]

#### Level 3 Outcomes (Knowledge): Final Online Enduring Program: Question 5

Learning Objective: Evaluate current and emerging therapies for patients with COVID-19 and chronic lung disease

**Question 5:** Which of the following are currently recommended for use for inpatients with COVID-19 by the National Institutes of Health (NIH)?





[Final Online Outcomes]

### Level 4 Outcomes (Competence): Final Online Enduring Program

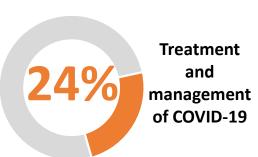
An analysis of open-ended comments demonstrates the following changes learners intend to make:

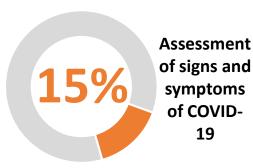
88%

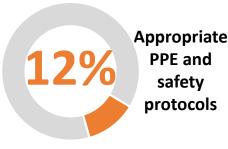
N=2168

Respondents
intend to make
changes to
practice as a result
of the activity











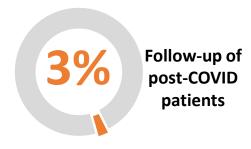
Patient
education on
COVID-19
treatment
and
prevention



Proper medication use based on current evidence

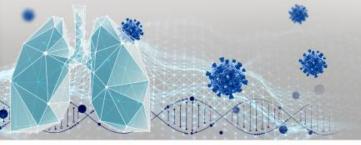


Utilization of screening and testing



N=1257





[Final Online Outcomes]

#### **Program Evaluation: Final Online Enduring Program**

98%

 Material presented in an objective manner and free of commercial bias

99%

and clinically relevant

 Content presented was evidence-based

Most important take-away:

**Appropriate safety and** prevention protocols, including vaccines (156 responses)

Importance of testing and screening (25 responses)

Overall increase in knowledge & need to keep up-to-date with evolving data of COVID-19 (494 responses)

(411 responses)

**Keep underlying** conditions in mind when evaluating (125 responses)

Use of medications based on evidencebased practices (96 responses)

**Recognition of signs** and symptoms of COVID-19

**Treatment and** 

management

approaches for COVID-

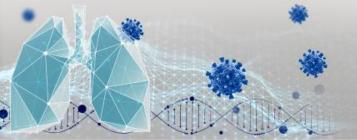
N = 1476

(114 responses)

**Educating the patient** about the disease and prevention

(55 responses)

N=2168

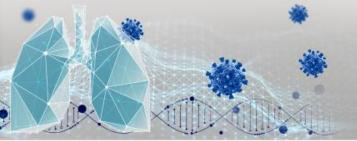


[Final Online Outcomes]

### **Program Evaluation: Final Online Enduring Outcomes**

What do you think is biggest challenge related to COVID-19?		
Availability of testing	Patient compliance	
Lack of PPE	Communication barrier with patients	
Lack of resources	Result time of testing	
Screening patients	Staffing	
Asymptomatic patients	Lack of knowledge of disease	
Rumors vs. facts when talking with patients	Treatment of immunosuppressed	
Continually changing standards of care	Volume of patients	
Cost and insurance coverage	Differentiating between COVID-19 and other conditions	





[Final Online Outcomes]

### Program Evaluation: <u>Final Online Enduring Program</u> Strategies for Overcoming Barriers

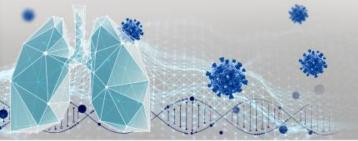
- Implementation of telemedicine
- Help patients better understand COVID-19
- Safer strategies to conduct outpatient visits
- Use of drive-up clinics and phone triage
- Treatment and management strategies
- How to treat patients with chronic lung disease safely while taking care of COVID-19 patients
- Increase of knowledge about virus to educate staff

65%

N=2168

Evaluation respondents indicated the activity addressed strategies for overcoming barriers to optimal patient care





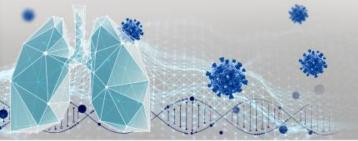
[Final Online Outcomes]

### **Program Evaluation: Final Online Interim Outcomes**

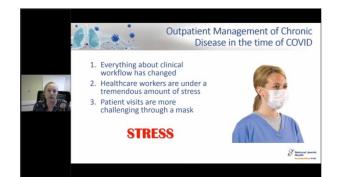
What topics would you like more information about in future educational activities?		
Continued updates on COVID-19 management	Inpatient critical care management	
Lung ultrasound	Recurrence of COVID-19 infection	
COVID-19 vaccine	Asthma	
COPD	Proper time to test for COVID-19	
Prevention of COVID infection	Emergency procedures	
Long-term effects of COVID-19	Chronic lung disease	
Geriatric population and COVID-19	Patient cases	
COVID-19 variants	Current COVID-19 research	

<sup>\*</sup>An update on new evidence-based treatment options and the vaccines were added to the online enduring program.



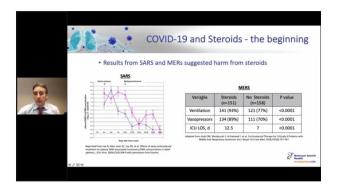


[Final Live Outcomes]



### **Live Webinar Series**

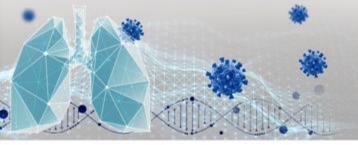
**Interim Outcomes Summary** 



freeCME Live Webinar (1): July 21, 2020

freeCME Live Webinar (2): July 24, 2020





[Final Live Outcomes]

#### Anthony N. Gerber, MD, PhD

Professor of Medicine
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
Department of Biomedical Research
National Jewish Health
Denver, CO

#### Rebecca C. Keith, MD

Associate Professor
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
Interstitial Lung Disease Program
Autoimmune Lung Center
National Jewish Health
Denver, CO

#### Joshua J. Solomon, MD

Associate Chief, Section of Critical Care
Associate Professor
Department of Medicine
Division of Pulmonary, Critical Care & Sleep Medicine
National Jewish Health
Denver, CO







#### **Live Webinar Series**

Webinar (1) – targeted nationally (7/21/2020): **346 Learners** 

Webinar (2) – targeted nationally

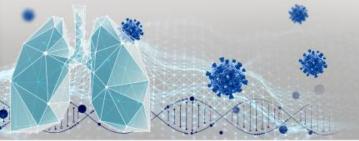
(7/24/2020): **305 Learners** 

**Total Live Webinar Learners: 651** 

"The enthusiasm and commitment shown by these clinicians was truly inspiring. It was the most positive I have felt about the pandemic. Bravo! We will make it to the other side of this pandemic."

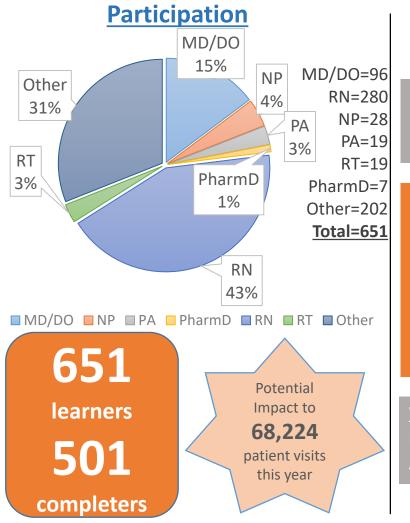
- Live virtual session attendee

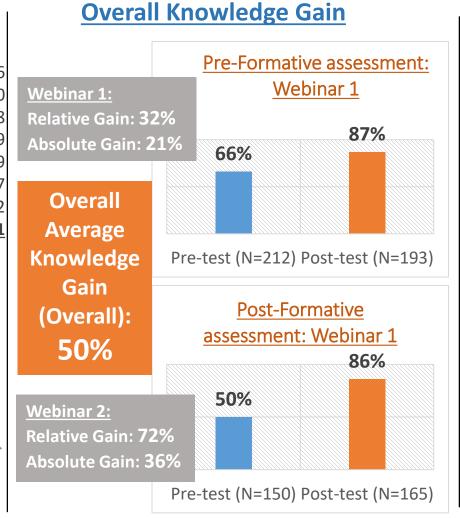




[Final Live Outcomes]

#### **Quantitative Educational Impact Summary: Live Virtual Grand Round Sessions**





#### **Top 3 Intended Practice Changes**

**74%** reported they intend to make changes to their practice

- ✓ Educate colleagues on information learned from webinar
- ✓ Implement appropriate PPE and safety protocols
- ✓ Proper medication use based on current evidence

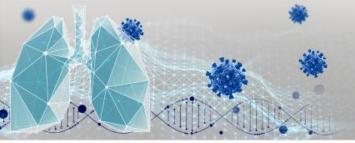
70%

N=351

the activity
addressed strategies
for overcoming
barriers to optimal
patient care

"Very interesting and relevant presentation. I learned a lot and really appreciate the doctors experiences with in their practice both inpatient and outpatient perspective."

- Live virtual session attendee



[Final Live Outcomes]

#### **Qualitative Educational Impact Summary: Live Virtual Grand Rounds Sessions**

#### **Participants**

651

**Total Learners** 

Who see

1,312

COVID Patients
Weekly

Which translates to

68,224

Potential patient Visits Annually

#### **Educational Impact**

**28%** relative knowledge gain seen from learners regarding describing clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response. [N=165]

**296%** relative knowledge gain seen from learners in regards to evaluating current and emerging therapies for patients with COVID-19 and chronic lung disease [N=165]

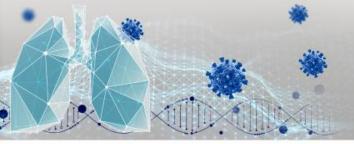
**311%** relative knowledge gain seen from learners in discussing strategies for managing patients with COVID-19 and chronic lung disease [N=165]

#### **Practice Change**

**74%** of evaluation respondents reported they intended to make changes to their practice as a result of the educational activity [N=351]

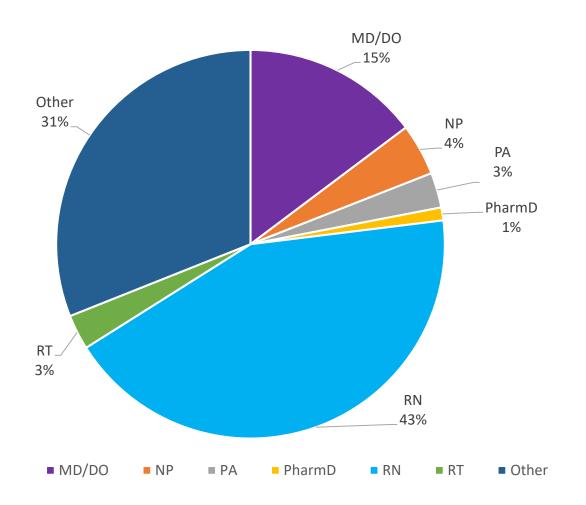
**70%** of evaluation respondents indicated the activity addressed strategies for overcoming barriers to optimal patient care [N=351]

"I felt the presenters had a high degree of expertise and imparted useful information. I enjoyed the presentation." — Live virtual session attendee



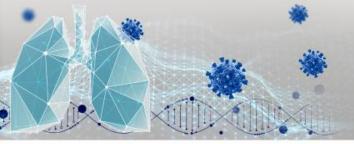
[Final Live Outcomes]

#### Level 1 Outcomes: Live Virtual Grand Round Sessions: Participation by Degree



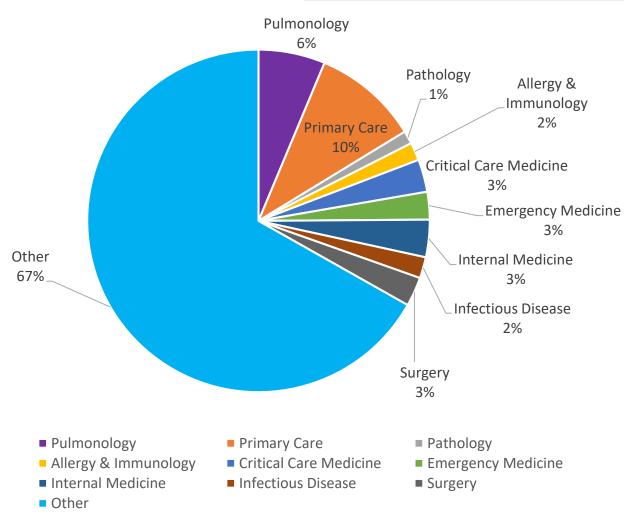
Degree	Total
MD/DO	96
RN	280
NP	28
PA	19
RT	19
PharmD	7
Other	202
Total	651



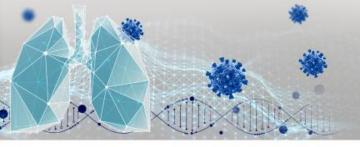


[Final Live Outcomes]

#### Level 1 Outcomes: Live Virtual Grand Round Sessions: Participation by Specialty

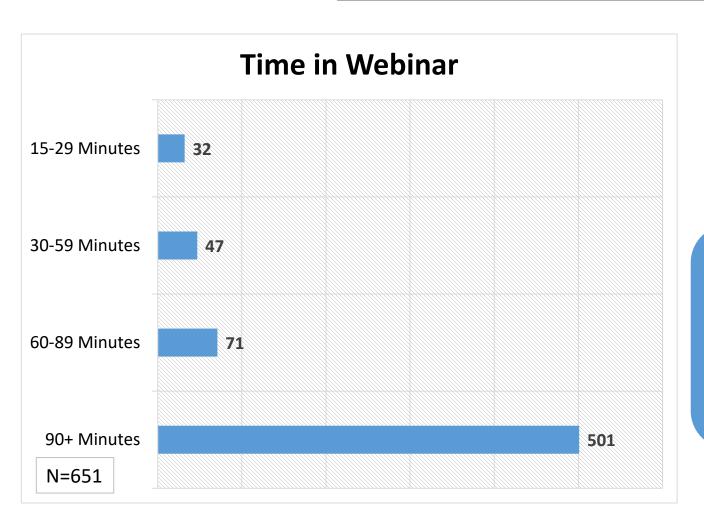


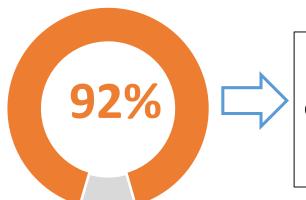
ia sessions i articipation by specialty		
Specialty	Total	
Primary Care	65	
Pulmonary	41	
Internal Medicine	23	
Critical Care Medicine	20	
Surgery	18	
Emergency Medicine	17	
Infectious Disease	13	
Allergy & Immunology	11	
Pathology	8	
Other	435	
Total	651	



[Final Live Outcomes]

#### Level 1 Outcomes: Live Webinar Sessions: Participation by Engagement

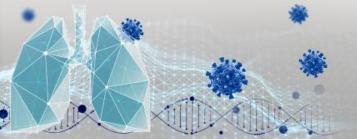




Interest rating - the percentage of time the GoToWebinar player was the primary tab open on the participant's screen

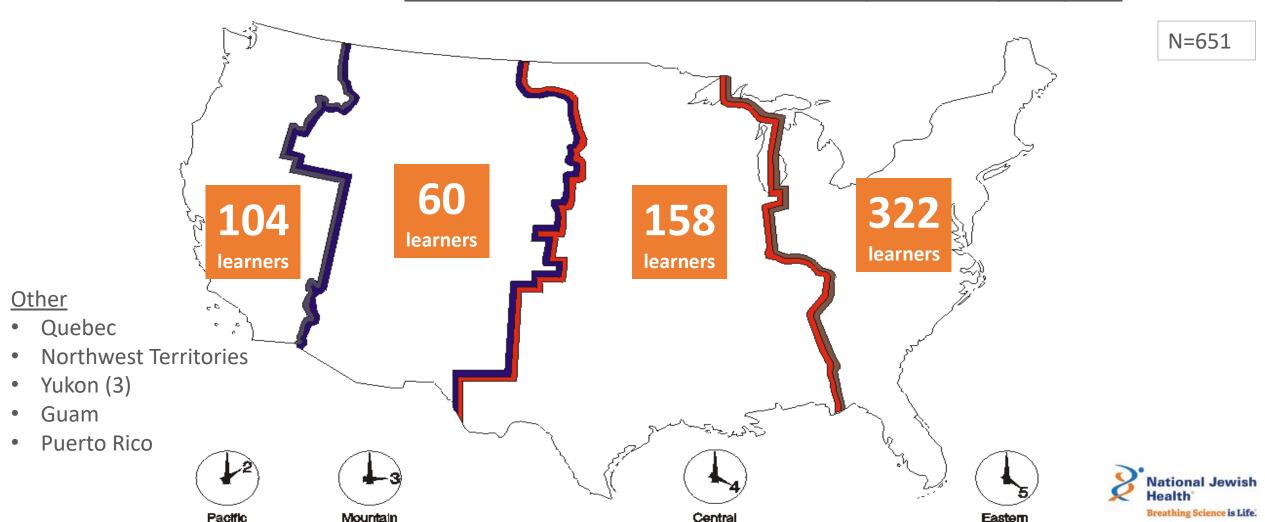
77% of the 651 Total Learners
stayed on for the entire
90 minutes

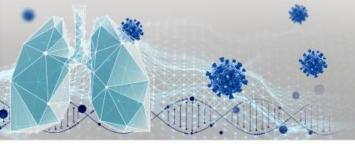




[Final Live Outcomes]

#### Level 1 Outcomes: Live Webinar Sessions: Participation by Region

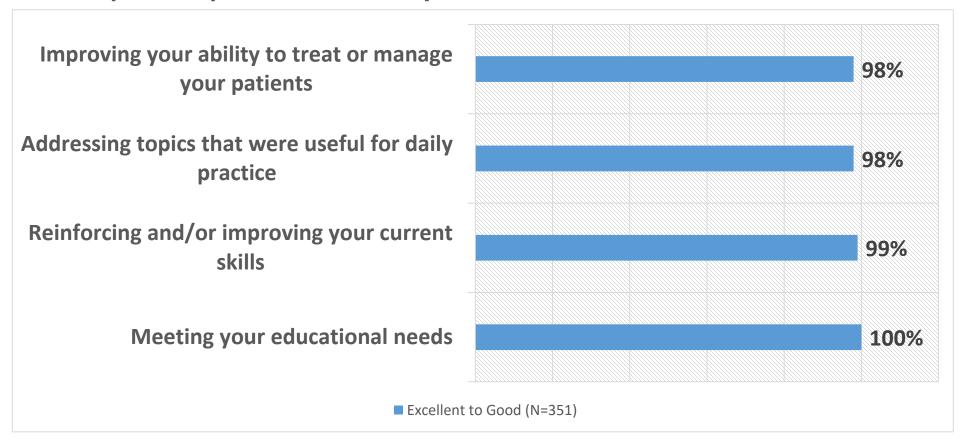




[Final Live Outcomes]

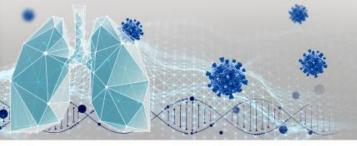
#### Level 2&3 Outcomes: Learning & Satisfaction - Live Webinar Sessions

Analysis of participant responses related to educational needs
Participants reported the activity was "Excellent" to "Good" at:



high levels of satisfaction related to the ability of the activity to impact practical applications



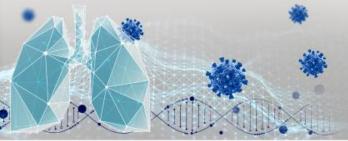


[Final Live Outcomes]

#### **Formative Assessment**

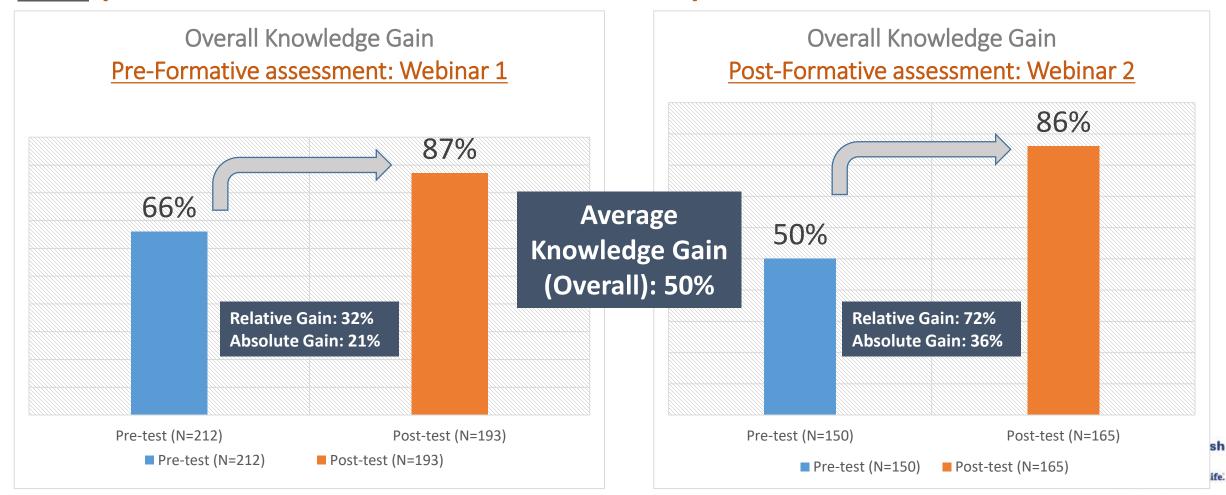
National Jewish Health strives to offer the best possible education to physician and healthcare providers. Our gold standard approach to a series of live presentations includes formative assessment between sessions to support evidence-based refinement and improvement of subsequent presentations.

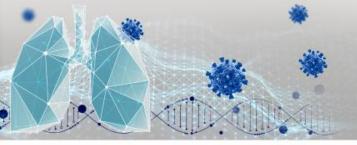
In this series, two pre-/post-test questions were revised as outlined on slides 39 and 40 after faculty recommendations and analysis. For the question on slide 40, this was also revised to better align with a different learning objective.



[Final Live Outcomes]

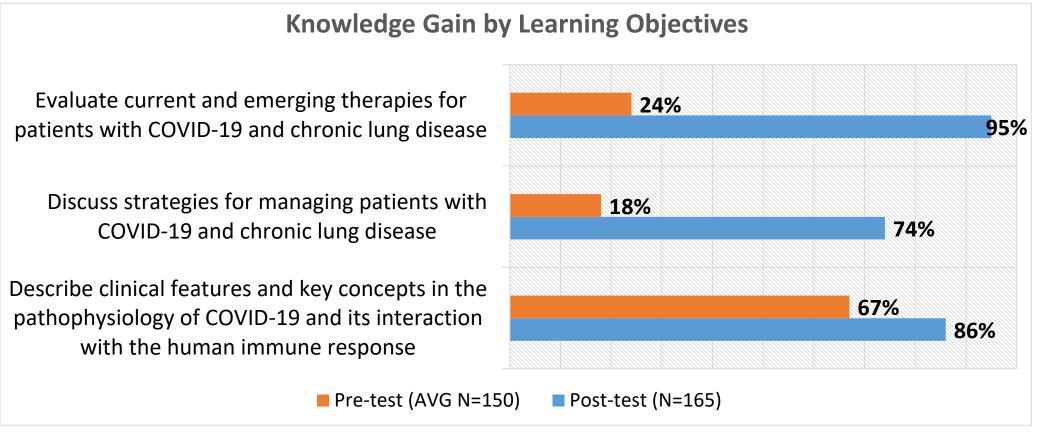
### Level 3 Outcomes (Knowledge): <u>Live Webinar Sessions: Overall Knowledge</u> <u>Gain</u> (Before & After Formative Assessment)



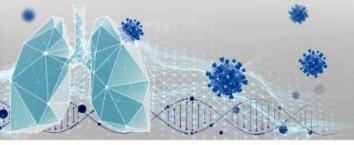


[Final Live Outcomes]

### Level 3 Outcomes (Knowledge) - <u>Live Webinar Sessions By Learning Objective</u> (Post Formative Assessment)







[Final Live Outcomes]

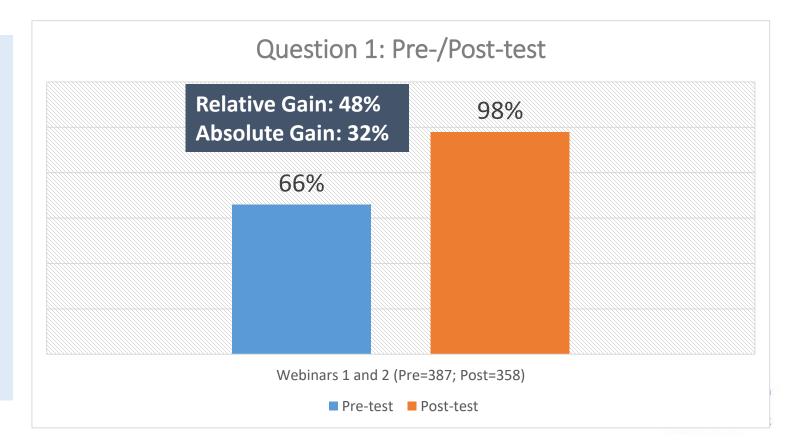
#### Level 3 Outcomes (Knowledge): Live Webinar Sessions: Question 1

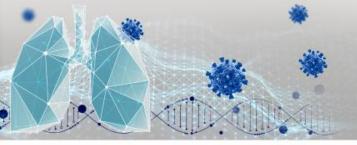
Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

#### **Question 1**

Other than older age, which of the following is a known risk factor with a hazard ratio of 1.5 or greater for developing severe COVID-19 disease?

- a. Female sex
- b. Chronic non-asthma lung disease
- c. Immunization for influenza
- d. Asthma using inhaled steroids
- e. Previous infection with other coronaviruses





[Final Live Outcomes]

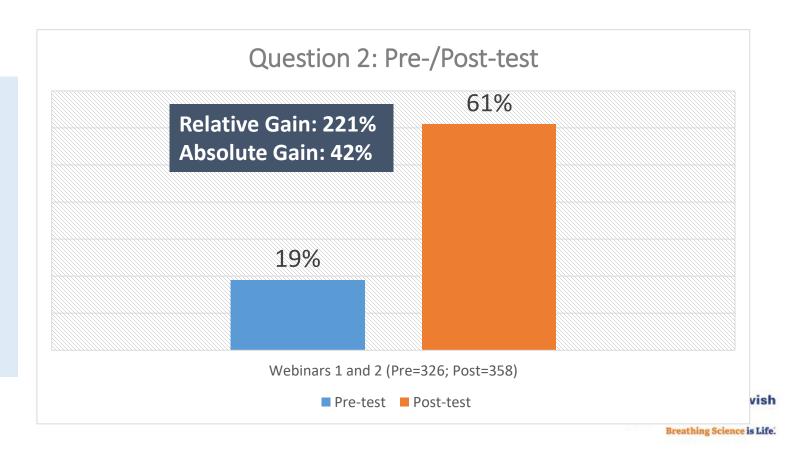
#### Level 3 Outcomes (Knowledge): Live Webinar Sessions: Question 2

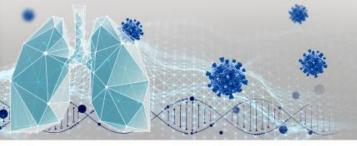
Learning Objective: Discuss strategies for managing patients with COVID-19 and chronic lung disease

#### **Question 2**

Which of the following is likely to mediate efficacy of dexamethasone in COVID-19?

- a. Increasing TNF signaling intensity
- b. Inhibition of NF-kB signaling
- c. Decreasing serine protease levels (e.g. SerpinA1)
- d. Improved host anti-viral response





[Final Live Outcomes]

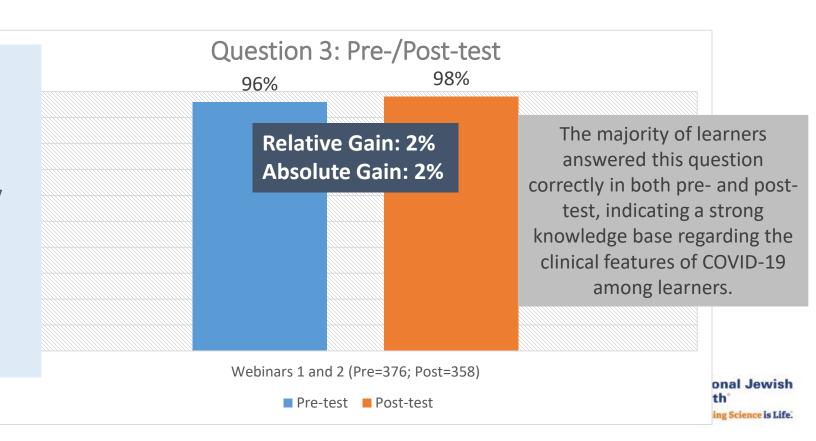
#### Level 3 Outcomes (Knowledge): Live Webinar Sessions: Question 3

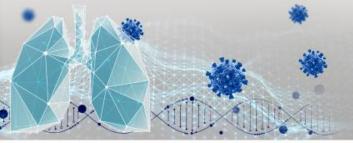
Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

#### **Question 3**

What reported symptoms would make you suspect your patient had COVID?

- a. New or worsening cough
- Dyspnea and increased respiratory rate
- c. GI symptoms including nausea, vomiting, diarrhea
- d. Loss of taste or smell
- e. Any of the above





[Final Live Outcomes]

#### Level 3 Outcomes (Knowledge): Live Webinar Sessions: Question 4

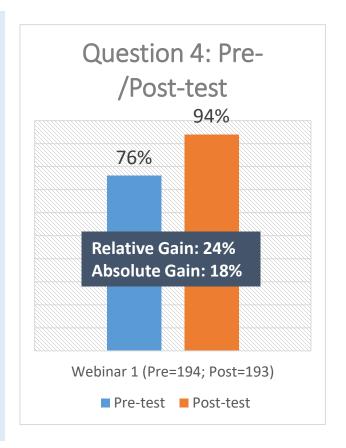
Learning Objective: Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

Question revised after
Webinar 1 according to
faculty recommendation and
analysis

### Question 4 (Pre-formative assessment)

Which of the following is true with respect to disease transmission of COVID-19?

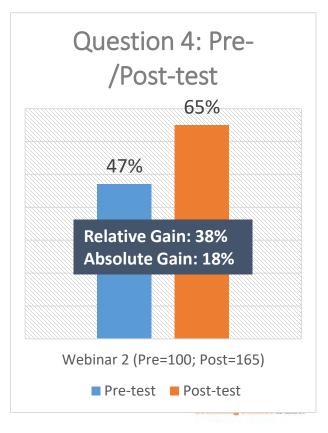
- a. R0 is the number of cases in the population with COVID-19
- b. The R0 can be influenced by public health measures
- c. Since the basic R0 for COVID-19 is 2-3, no one person can infect more than 5 other people

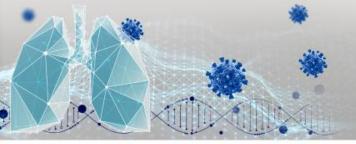


### Question 4 (Post-formative assessment)

Which of the following is true with respect to disease transmission of COVID-19?

- a. R0 is the prevalence of infectious COVID-19 cases in the population
- b. The basic R0 for SARS-CoV-2 is estimated at 4-5
- c. The basic R0 can change with viral mutations
- d. If the RO is reduced to 1.1 with social distancing and vaccination, herd immunity will essentially eliminate spread of the virus





[Final Live Outcomes]

#### Level 3 Outcomes (Knowledge): <u>Live Webinar Sessions: Question 5</u>

Learning Objective (pre assessment): Describe clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response

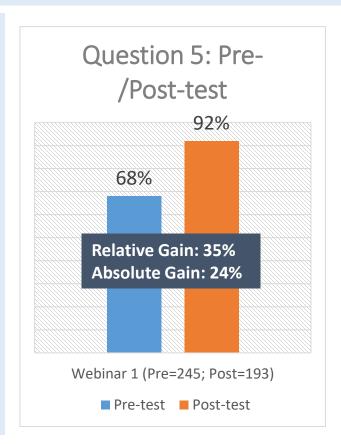
Learning Objective (post assessment): Evaluate current and emerging therapies for patients with COVID-19 and chronic lung disease

Question revised and mapped to a different LO after Webinar 1 according to faculty analysis and recommendation

### Question 5 (Pre-formative assessment)

Which of the following has not been shown to increase your risk of poor outcomes with COVID-19 (based on current data)?

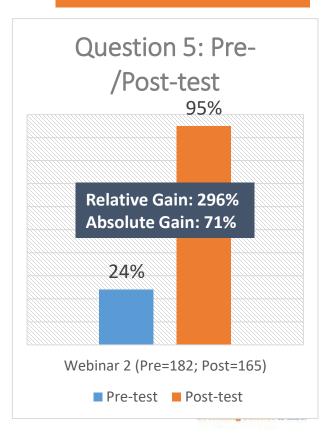
- a. Hypertension
- b. Diabetes
- c. Chronic Obstructive
  Pulmonary Disease
  (COPD)
- d. Asthma
- e. Advanced Age

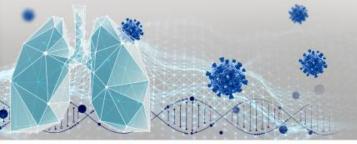


### Question 5 (Post-formative assessment)

Which of the following are currently recommended for use for inpatients with COVID-19 by the National Institutes of Health (NIH)?

- a. Hydroxychloroquine
- b. Remdesivir
- c. Dexamethasone
- d. Convalescent plasma
- e. B and C
- f. All of the above





[Final Live Outcomes]

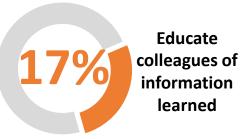
### Level 4 Outcomes (Competence): <u>Live Webinar Sessions</u>

An analysis of open-ended comments demonstrates the following changes learners intend to make:

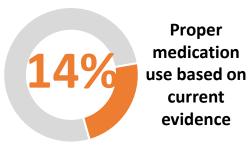
74%

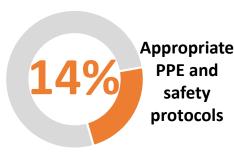
N=351

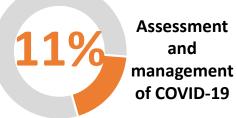
Learners intend to make changes to practice as a result of the activity







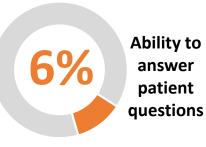








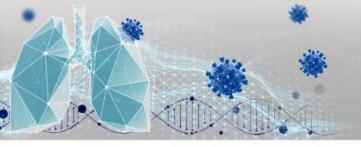
Understanding signs and symptoms of COVID-19











[Final Live Outcomes]

#### **Program Evaluation: Live Webinar Sessions**

99%

 Material presented in an objective manner and free of commercial bias

99%

 Content presented was evidence-based and clinically relevant

"This webinar was extremely informative and increased my knowledge of COVID-19/CLD tremendously."

—Live Webinar Participant

N=351

Importance of testing and sharing knowledge

(10 responses)

Recognition of signs and symptoms of COVID-19

(25 responses)

Overall increase in knowledge & need to keep upto-date with evolving data of COVID-19

(123 responses)

Most important take-away

Keep underlying conditions in mind when evaluating

(46 responses)

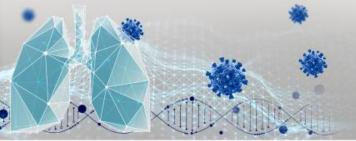
Management and treatment approaches for COVID-19

(63 responses)

Appropriate safety protocols (34 responses)



N=301

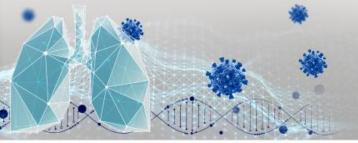


[Final Live Outcomes]

### **Program Evaluation: Live Webinar Sessions**

What do you think is biggest challenge related to COVID-19?	
Keeping informed and up-to-date with evolving data	Testing
Difficulty communicating with patients	Fatigue
Anxiety surrounding exposure	Resources such as adequate supplies like PPE, ventilators, etc.
Protecting patients and staff	ICU capacity
No definitive treatment	Consistent safety protocols
Financial issues	Contact tracing
Misinformation spread by media	Variability of response to COVID-19
Compliance with CDC guidelines	Accessibility to patients





[Final Live Outcomes]

### Program Evaluation: <u>Live Webinar Sessions</u> Strategies for Overcoming Barriers

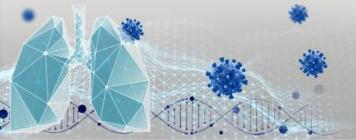
- Types of medications and therapeutics available
- Better insight into understanding the disease
- Adaptation of working environment for better management of care and safety protocols
- Better understanding on where the healthcare community is at in relation to treating COVID-19 in the short and long term
- Screening processes to implement
- Post care of COVID-19 treatment
- Recognition of patient apprehension with regards to necessary procedures
- Telemedicine
- Implementation of phone triage

70%

N=351

the activity
addressed strategies
for overcoming
barriers to optimal
patient care



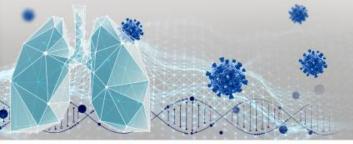


[Final Live Outcomes]

### **Program Evaluation: Live Webinar Sessions**

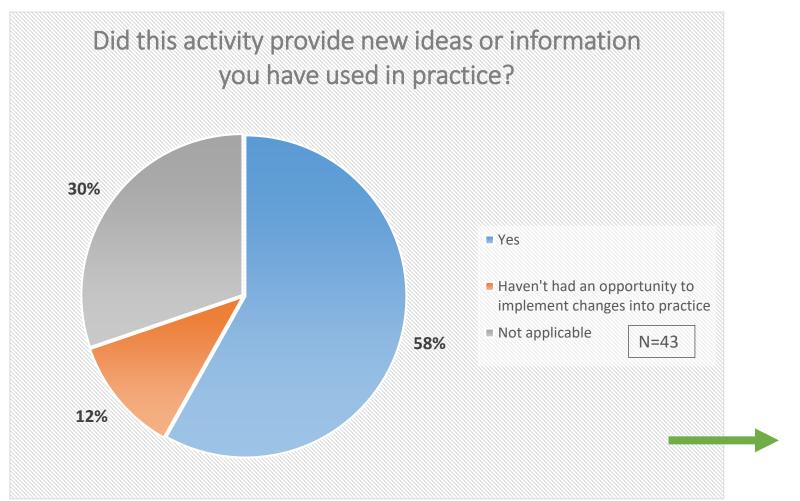
What topics would you like more information about in future educational activities?	
COVID-19 vaccine updates	Effects on "long haul" survivors
Pediatric COVID-19	Asthma
Auto immune diseases	Acute kidney injury
Cardiology	Sleep medicine
Depression due to quarantine	Ethics related to COVID-19 management
Lung disease	Infection prevention
COVID-19 and COPD	COVID-19 data updates
Effects of isolation on elderly	NTM infections
Vaping	OBGYN patients



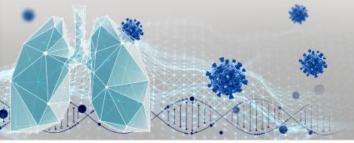


[Final Live Outcomes]

### 45-day Follow-up Survey: Live Webinar Sessions

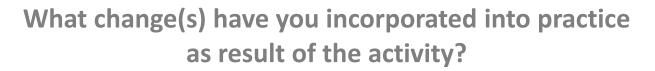


60% N=5 Of those who indicated they hadn't implemented changes into practice are still committed to making changes



[Final Live Outcomes]

#### 45-day Follow-up Survey: Live Webinar Sessions



Changed screening/prevention practices

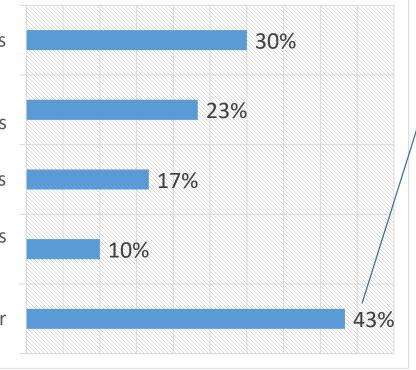
Used alternative communication methodologies with patients and families

Modified treatment plans

Incorporated different diagnostic strategies into patient evaluation

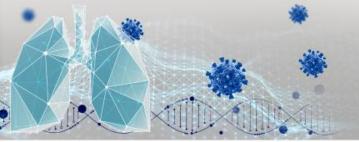
N = 30

Other



- Review of COVID-19
   symptoms, travel, testing
   history with patients upon
   every interaction
- Phone screen day before appointment
- More follow-up care for post-COVID patients
- App on phone to directly connect with family
  - Patient education

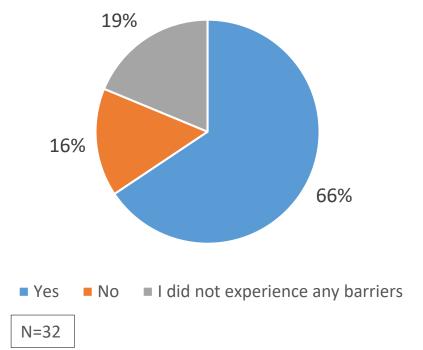


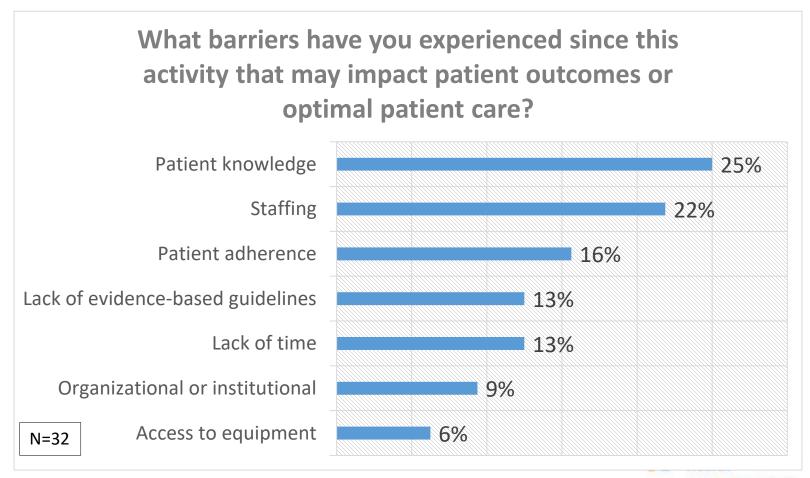


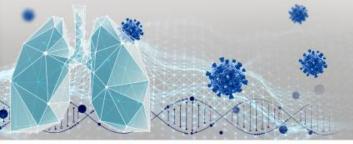
[Final Live Outcomes]

#### 45-day Follow-up Survey: Live Webinar Sessions

Did the activity provide information, education, tools or resources to be able to address these barriers?







[Final Live Outcomes]

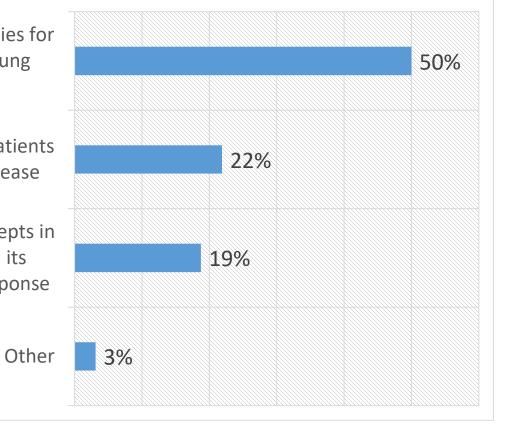
#### 45-day Follow-up Survey: Live Webinar Sessions

#### In which areas do you feel you need more education?

Evaluating current and emerging therapies for patients with COVID-19 and chronic lung disease

Discussing strategies for managing patients with COVID-19 and chronic lung disease

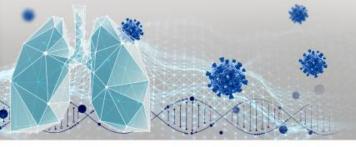
Describing clinical features and key concepts in the pathophysiology of COVID-19 and its interaction with the human immune response



25% of respondents indicated no additional education is needed

N=32





[Final Outcomes]

#### **Accreditation**

NJH is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The NJH Office of Professional Education produced and accredited this program and adhered to the updated ACCME guidelines.

#### **Live Webinars**

NJH designates this live activity for a maximum of 1.5 AMA PRA Category 1 Credits™.

Provider approved by the California Board of Registered Nursing, Provider Number 12724 for 1.5 nursing contact hours.

#### Online Enduring

NJH designates this enduring material for a maximum of 1.5 AMA PRA Category 1 Credits™.

Provider approved by the California Board of Registered Nursing, Provider Number 12724 for 1.5 nursing contact hours.



