Medscape Education Global

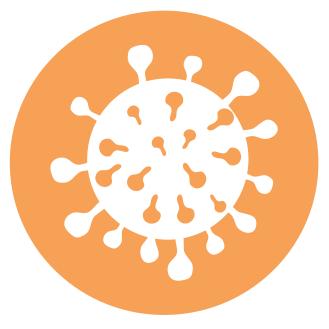
Independent Online Medical Education Significantly Increases Physician Knowledge and Confidence Regarding Real-World Data for COVID-19 Antiviral Therapy in High-Risk Patients

Julia Duffey, PhD; Shanti Voorn, PhD: Medscape Education Global, London, UK; Johan Maertens MD, PhD: Department of Hematology, University Hospital Leuven, Leuven, Belgium

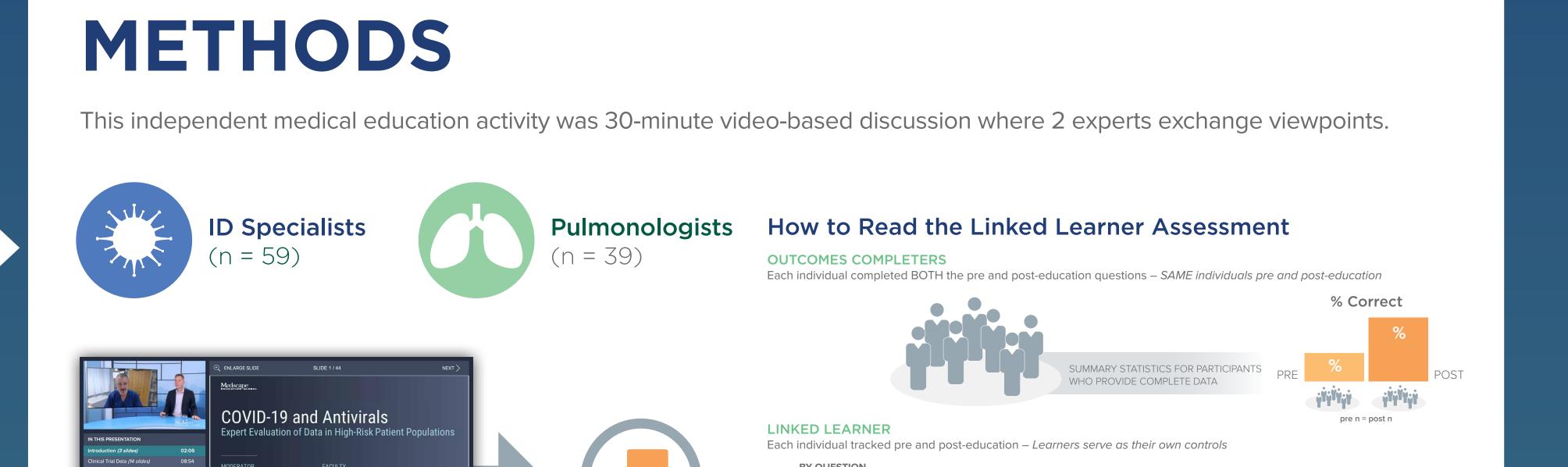
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BACKGROUND

Despite immunization against COVID-19, a considerable proportion of individuals are at high risk of severe disease due to immunosuppression, the presence of comorbidities, or treatment that they are



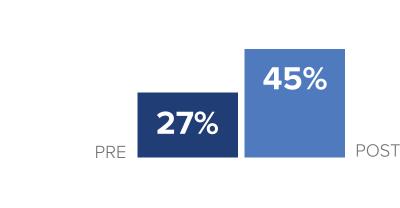
receiving. Several antivirals are available to prevent severe disease in these individuals. We assessed if an online independent medical education activity consisting of a 30-minute discussion between two leading experts could improve the knowledge and confidence of infectious disease (ID) specialists and pulmonologists regarding real-world data on the efficacy and safety of COVID-19 antivirals for patients at high risk of severe disease.



RESULTS

OVERALL

ID Specialists (n = 59) AGGREGATED RESULTS



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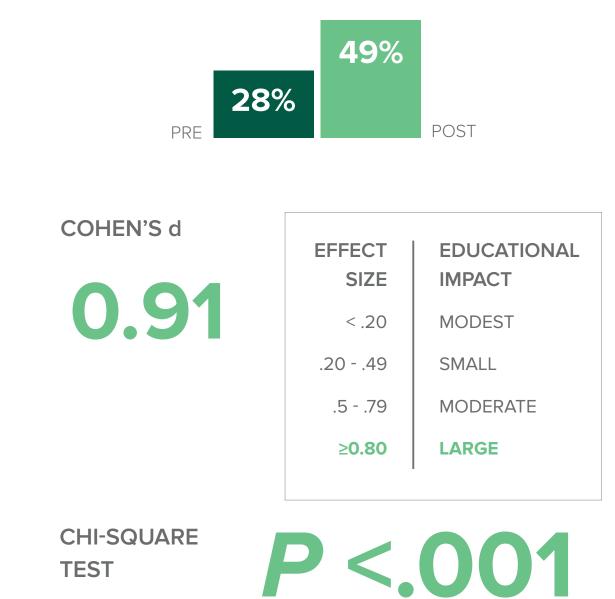
0.75

CHI-SQUARE TEST P < .001

SIGNIFICANCE (P < .05)

Pulmonologists (n = 39) –

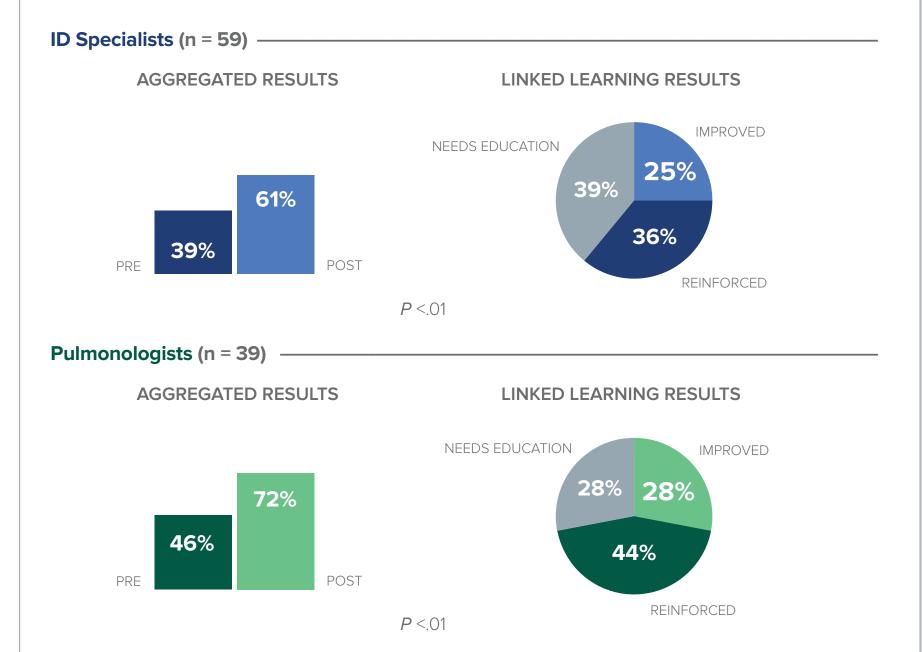
AGGREGATED RESULTS



QUESTION 1 RESULTS

The question led to significant knowledge gains for both specialties regarding the tolerability profile of COVID-19 antivirals.

QUESTION: In 3 separate clinical trials assessing adverse events (AEs) experienced by patients receiving either remdesivir, molnupiravir, or nirmatrelvir-ritonavir, which of the following agents was associated with AEs similar to those found with placebo? (Correct Answer: Molnupiravir)



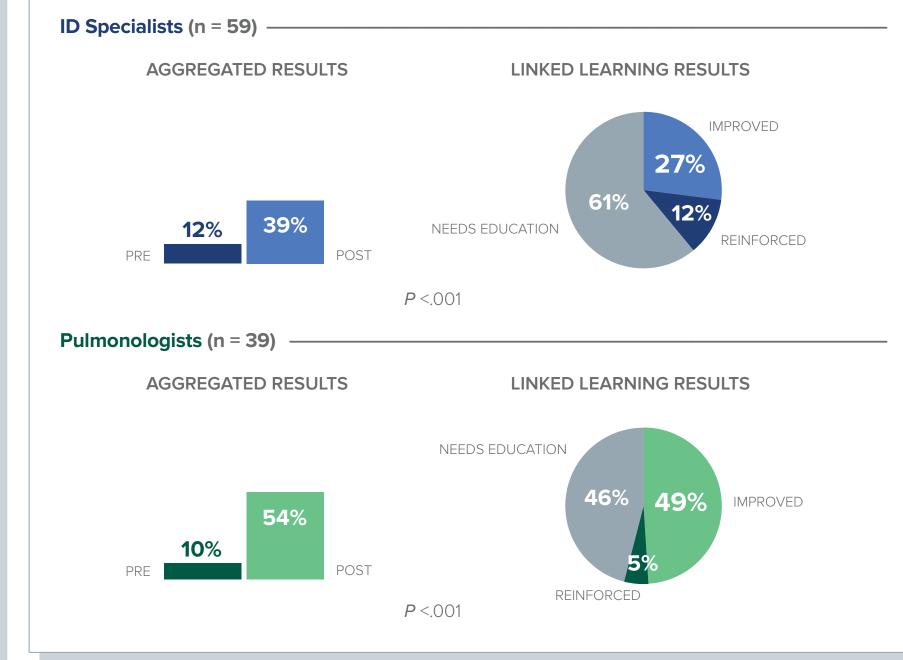
QUESTION 2 RESULTS

This question revealed both groups of physicians have very low baseline knowledge regarding effectiveness of antiviral in specific patient populations. Despite this, the education led to significant knowledge gains for both groups.

answers at least one more

QUESTION: A subgroup analysis of 47,437 patients who received nirmatrelvir-ritonavir found that the effectiveness of nirmatrelvir-ritonavir in reducing the risk of severe COVID-19 or mortality was highest in patients with which of the following morbidities?

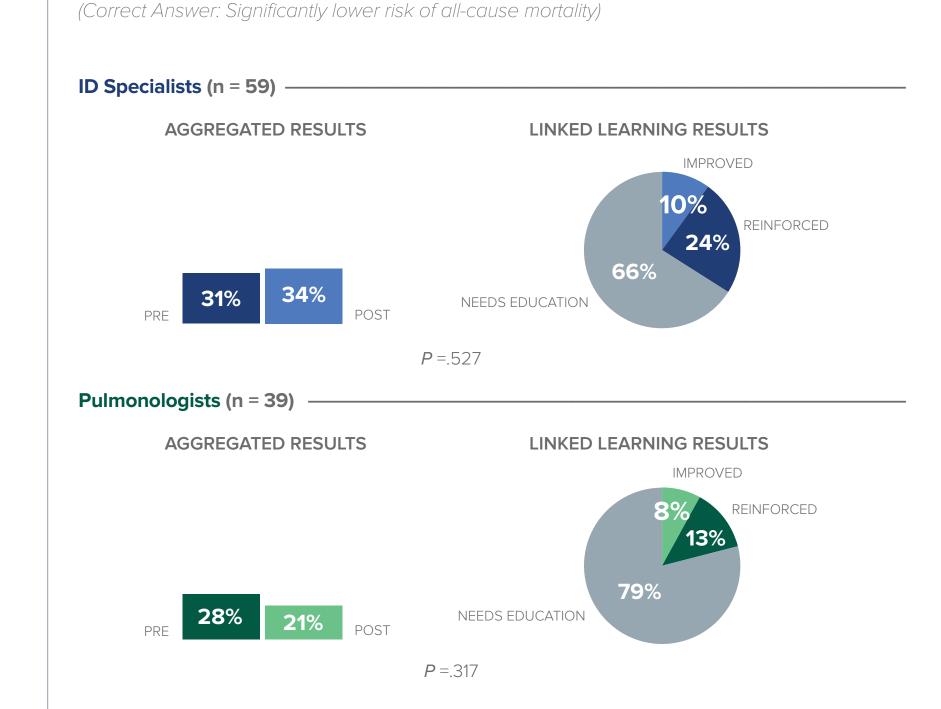
(Correct Answer: Neurological disease)



QUESTION 3 RESULTS

This question did not result in significant knowledge gains for each group with a lower proportion of pulmonologists answering the question correctly post-activity.

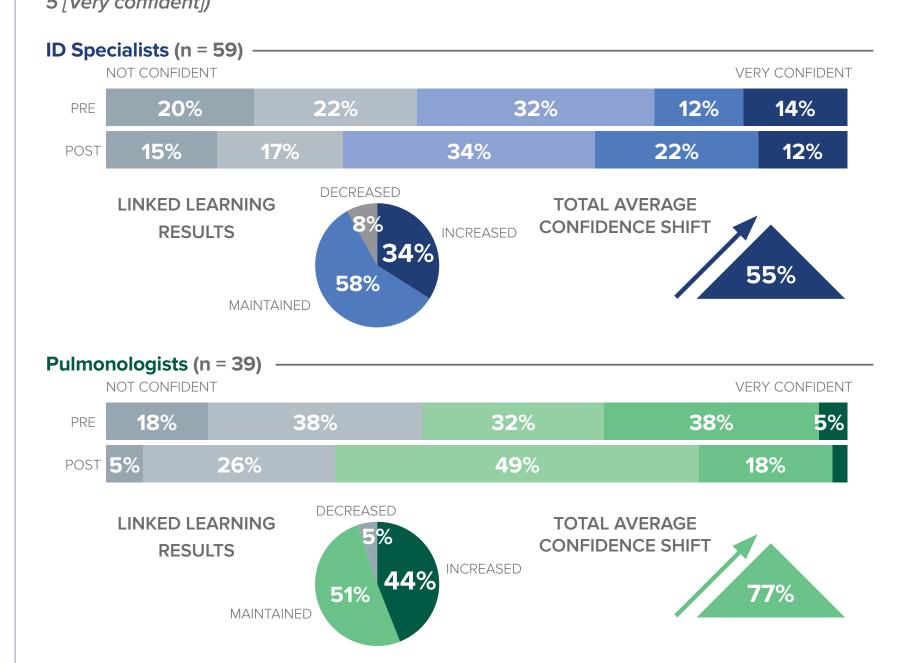
QUESTION: A real-world retrospective cohort of 40,776 patients with COVID-19 not requiring supplemental oxygen on hospitalization found that early molnupiravir was associated with which of the following clinical outcomes?



CONFIDENCE ANALYSIS

34% of ID specialists and 44% of pulmonologists had a measurable improvement in confidence regarding their ability to prescribe and manage patients at risk of severe COVID-19 with antivirals. Following education, the confidence shift for ID physicians (55%) and pulmonologists was high (77%).

QUESTION: How confident are you right now in your ability to prescribe and manage patients at risk of severe COVID-19 with antivirals? (Select ranking from 1 [Not confident] to 5 [Very confident])



CONCLUSIONS

- With multiple antivirals available to reduce the possibility
 of severe disease in high-risk patients it is important that
 physicians are aware of the real-world evidence to enable
 the selection of the most appropriate management strategy
- However, despite demonstrated real-world efficacy, antivirals for the prevention of COVID-19 disease progression are underutilised
- This education highlighted several knowledge gaps regarding real-world data awareness
- However, online medical education significantly improved physician knowledge of real-world data and pulmonologists confidence in managing these patients with antivirals
- These findings highlight the importance of independent online medical education to facilitate best practice and reduce COVID-19 disease burden in high-risk patients

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For more information, contact:

Dr. Julia Duffey

juliacduffey@hotmail.com



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