

Nirmatrelvir-Ritonavir and Symptoms in Adults With Postacute Sequelae of SARS-CoV-2 Infection: The STOP-PASC Randomized Clinical Trial

PIs: Dr. Upinder Singh and Dr. Linda Geng
Presented by Daniel Thai, Sukanya Mohapatra, and Yasmin Jazayeri



BACKGROUND

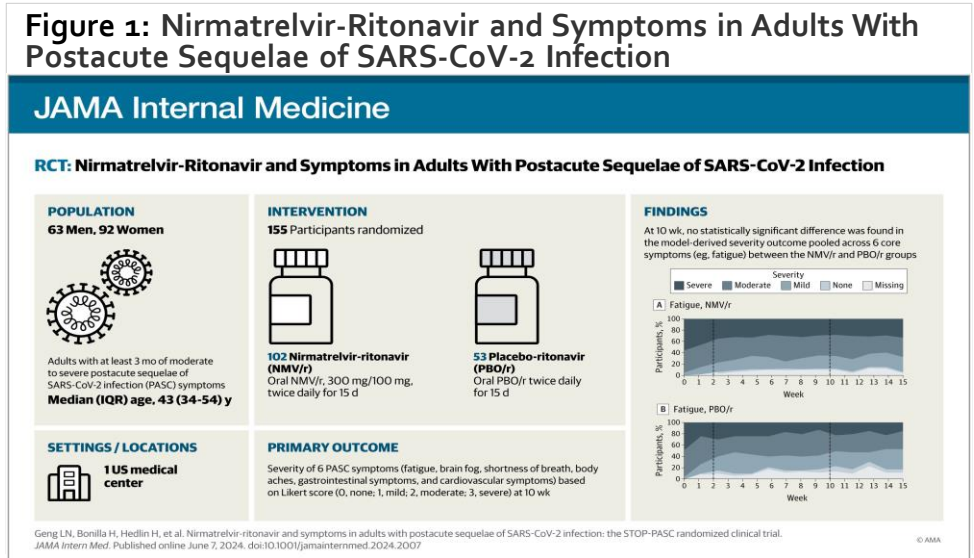
RESULTS

CONCLUSIONS

- Postacute sequelae of SARS-CoV-2 (PASC), also known as long COVID, affects millions of people for long periods of time and can include many symptoms
- Antiviral agents against SARS-CoV-2 are a possible area for investigation since SARS-CoV-2 virus or viral particle persistence is one of several proposed mechanisms for PASC
- Nirmatrelvir, with low-dose ritonavir was approved by the US FDA for the treatment of mild to moderate COVID-19
- The objectives of the Selective Trial of Paxlovid for PASC (STOP-PASC) were to assess the effect of a 15-day course of NMV/r vs PBO/r in improving PASC symptoms and other patient-reported outcomes

METHODS

- STOP-PASC was a double-blind randomized clinical trial to investigate nirmatrelvir-ritonavir (NMV/r) compared with placebo-ritonavir (PBO/r) in adult participants with PASC (Figure 1)
- 784 prescreened: 168 consented and screened
- The primary end point was core symptoms severity during the past week, pooled at 10 weeks post-randomization in participants treated with NMV/r vs PBO/r
- The primary analysis followed the intent-to-treat (ITT) principle



- Considering the 6 core symptoms together (fatigue, brain fog, body aches, cardiovascular symptoms, shortness of breath, gastrointestinal symptoms), there was no statistically significant difference in the pooled symptom severity between NMV/r and PBO/r groups at 10 weeks
- A 15-day course of NMV/r was found to have a safety profile similar to the 5-day acute treatment course and was generally tolerated; however, when compared to placebo-ritonavir, it did not improve select PASC symptoms or other health outcomes
- Both the intervention and control groups exhibited improvements in PASC symptoms over time (Figures 2 and 3), though notably many participants still had symptoms at 15 weeks

