

Our overarching goal is to harness current health informatics provided by the Lackland Trainee Health Surveillance office.

Our study objective was to examine trends in COVID-19 symptoms within a military trainee population.

**Background**

Although effective infection control within military congregate settings has been deployed since March 2020, the incidence of COVID-19 infections continues to be a challenge for the military training mission. Additionally, the incidence of specific symptoms that propagate the spread of infection can be problematic in high traffic, densely populated areas such as military training dormitories.

Using a population health surveillance framework, we examined the symptomology trends within a military trainee population at Lackland AFB, San Antonio, Texas. To the best of our knowledge, this is the first study to examine COVID-19 symptomology trends among young, otherwise healthy US military trainees.

**Study period:** April 2021 – April 2022

**Study design:** Ambispective, observational

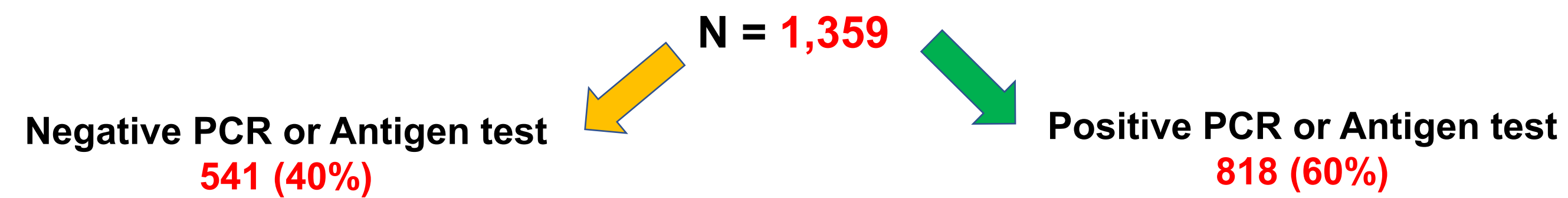
**Population of interest:** Military trainee population stationed at Lackland Air Force Base, San Antonio, Texas.

**Specific aims:**

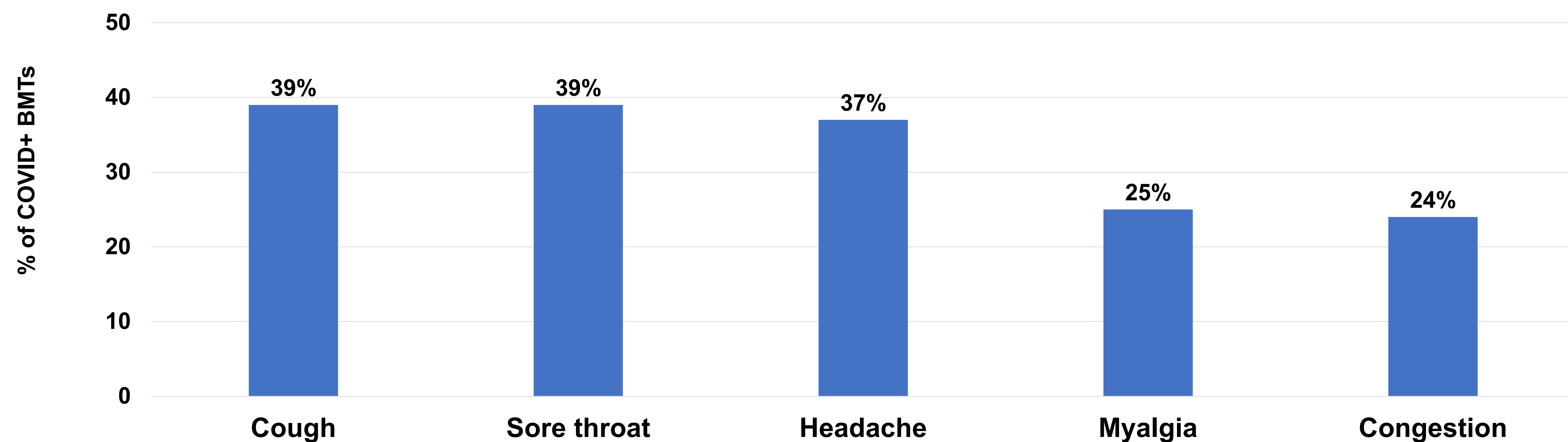
1. Assess trends of COVID-19 symptoms among military trainees who received a lab-confirmed COVID-19 diagnosis (herein referred to as a positive COVID-19 test)
2. Using logistic regression, assess the likelihood of the top five symptoms predicting a positive COVID-19 test among our population of interest

**Figure 1.** Triaging and referral for COVID-19 testing

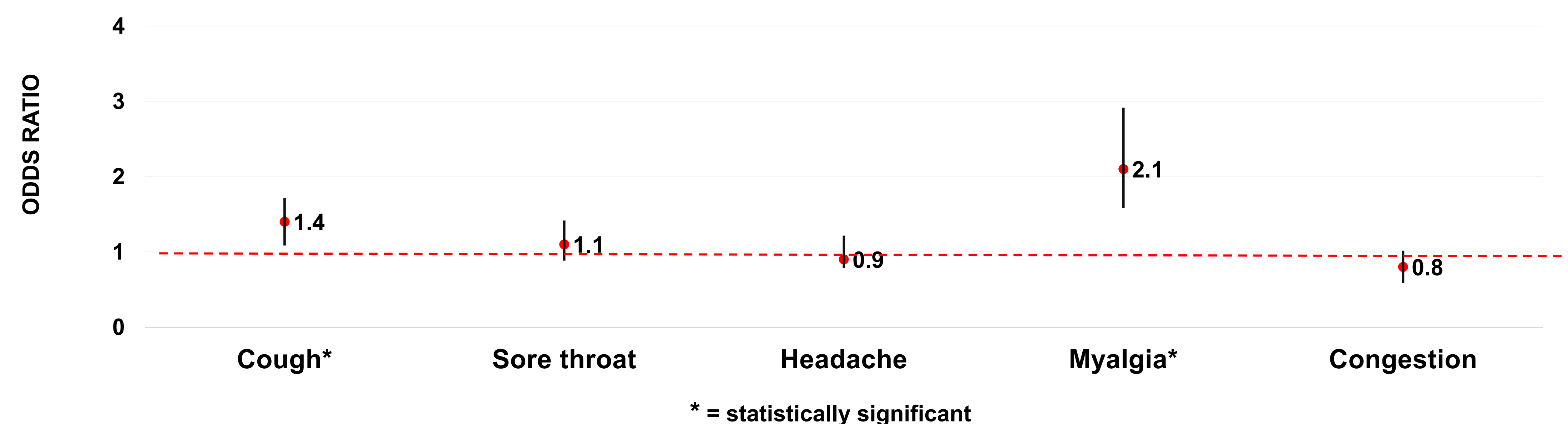
Trainee who displays/reports one or more of the following symptoms is referred for COVID-19 PCR testing  
*(anosmia/ageusia, chest complaints, chills, congestion, cough, diarrhea/loose stools, dizziness/syncope, fatigue/weakness, fever, flu-like symptoms, headache, myalgia, nausea, shortness of breath, sore throat, sweats, vomiting, COVID-like symptoms)*



**Figure 2.** Top 5 most frequent symptoms among BMTs who had a + COVID test Apr 21-Apr 22



**Figure 3.** How the 5 most frequent symptoms predict COVID+ among BMTs Apr 21-Apr 22



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**Conclusion/**

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**Disclaimer:** The view...  
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