



Science Olympiad
2021 National Tournament
Disease Detectives Division C Additional Information

- For the 2021 National Tournament, the Disease Detective Division C Event Supervisor wanted to share the following information with all participants so that you can prepare for tough test.
- Part I is rather general and may be longer than you have typically seen on past Disease Detective events.
- Part II deals with outbreaks and, as you might expect, focuses on the COVID pandemic. A review and basic understanding of the information and recommendations on CDC's COVID site would be a good idea but you need not remember how many days for quarantine or isolation, specific symptoms, days between immunizations, high risk groups or comparable levels of detail. The focus is on applying epidemiological principles to the COVID pandemic and not memorizing a bunch of numbers that may well change as we learn more. You should know the modes of transmission for COVID and understand what they involve.
- Part III deals with prevention. Given appropriate data, you should be able to calculate vaccine efficacy or effectiveness. You can find the formula at <https://www.cdc.gov/csels/dsepd/ss1978/lesson3/section6.html>. You should also be familiar with herd immunity and R values.