



## Role of Diet and Exercise in Covid-19

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### Abstract

This opinion article discusses the potential role of diet and exercise in combating COVID-19. A balanced diet, rich in fruits, vegetables, whole grains, lean protein, and healthy fats, can provide essential nutrients and antioxidants to support immune function, reducing the risk of COVID-19 infection and the severity of symptoms. Regular exercise has been shown to improve immune function and mental health, reducing the risk of chronic diseases and inflammation, which can prevent COVID-19 infection and reduce the severity of symptoms. While diet and exercise are not a substitute for medical treatment, incorporating a healthy lifestyle into your daily routine can improve overall health and well-being, which can have a positive impact on the immune system. It's essential to consult with a healthcare professional before making significant changes to your diet or exercise routine, especially if you have any underlying health conditions.

### Role of Diet and Exercise in Covid-19

The COVID-19 pandemic has highlighted the importance of maintaining a healthy lifestyle to improve overall health and well-being. Diet and exercise are two key factors that have been shown to play a crucial role in supporting immune function, reducing inflammation, and preventing chronic diseases. This paper discusses the potential role of diet and exercise in preventing COVID-19 infection and reducing the severity of symptoms.

#### Diet and Immune Function

A healthy diet provides essential nutrients and antioxidants that support immune function and reduce inflammation, which is critical in preventing severe COVID-19 illness. Several nutrients have been found to play a critical role in immune function, including vitamins A, C, D, and E, zinc, and selenium. These nutrients are found in a variety of foods, including fruits, vegetables, whole grains, lean protein, and healthy fats. In addition to providing essential nutrients, some foods have specific antiviral and immune-boosting

properties. For example, garlic and ginger have been shown to have antiviral properties, while green tea and turmeric have been found to have immune-boosting properties. However, it's important to note that supplements are not a substitute for a healthy diet, as the body absorbs and utilizes nutrients differently from food.

#### Exercise and Immune Function

Regular exercise has been shown to improve immune function and reduce inflammation [1], which can help prevent COVID-19 infection and reduce the severity of symptoms. Exercise stimulates the production of immune cells and increases blood flow, which can help move immune cells around the body. Moderate exercise, such as brisk walking, cycling, or swimming, for at least 150 minutes per week, is recommended to maintain overall health and well-being.

Exercise has also been found to improve mental health, reducing stress, anxiety, and depression, which can have a positive impact on the immune system. The pandemic has caused significant stress

and anxiety for many people, making exercise an essential part of maintaining good mental health during this time.

### Consulting with Healthcare Professionals

While diet and exercise can play a critical role in supporting immune function and reducing the severity of COVID-19 symptoms, it's essential to consult with a healthcare professional before making significant changes to your diet or exercise routine. This is especially important if you have underlying health conditions, as certain dietary changes or exercises may not be appropriate for your specific situation.

### Conclusion

In conclusion, diet and exercise are two critical factors that can play a significant role in preventing COVID-19 infection and reducing the severity of symptoms. A healthy diet provides essential

nutrients and antioxidants to support immune function, while regular exercise improves immune function and mental health. Incorporating a healthy lifestyle into your daily routine may not prevent COVID-19, but it can improve your overall health and well-being, which can have a positive impact on the immune system. It's essential to consult with a healthcare professional before making significant changes to your diet or exercise routine, especially if you have any underlying health conditions. Further research is needed to fully understand the potential benefits of diet and exercise in combating COVID-19.

### References

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