

# COVID-19: Nutraceutical and Botanical Recommendations for Patients

At this time there are no specific uniformly successful treatments for COVID-19. However, emerging research on several specific botanical and nutraceutical agents is promising, as such agents can improve the body's ability to fight off and recover from the illness. Beneficial botanical and nutraceutical agents are listed below, along with closing recommendations. For more information on these recommendations, including specific supplements, please consult directly with Dr. Maddoux regarding your personal needs.

NUTRACEUTICAL OR BOTANICAL AGENT	BENEFITS	ENHANCES IMMUNE SYSTEM	DECREASES VIRAL GROWTH	REDUCES SYMPTOMS
<input checked="" type="checkbox"/> <b>Curcumin</b> <i>500-1,000 mg, 2x daily</i>	Curcumin has been shown to reduce inflammation and decrease viral activity for COVID-19.	■	■	■
<input type="checkbox"/> <b>Quercetin</b> <i>Regular: 1,000 mg orally, 2x daily</i> <i>Phytosome: 500 mg, 2x daily</i>	Quercetin is found in fruits and vegetables and has a wide range of benefits, including decreasing viral growth.	■	■	■
<input checked="" type="checkbox"/> <b>Zinc acetate, citrate, picolinate, or glycinate; zinc gluconate (as lozenge)</b> <i>30-60 mg orally daily, in divided doses</i>	A large body of research shows that zinc has strong anti-viral properties against many viruses.	■	■	■
<input checked="" type="checkbox"/> <b>N-Acetylcysteine (NAC)</b> <i>600-900 mg, 2x daily</i>	N-acetylcysteine promotes the production of glutathione, a potent antioxidant that supports immune function. It also reduces the severity of the flu.	■		■
<input checked="" type="checkbox"/> <b>Vitamin D</b> <i>5,000 IU orally, daily</i>	Vitamin D enhances immune system function, reduces viral growth, and can reduce upper respiratory infections.	■	■	■
<input type="checkbox"/> <b>Vitamin A</b> <i>10,000-25,000 IU, daily</i>	Vitamin A is anti-inflammatory, enhances immune function, and supports the lining of the respiratory tract.	■		■
<input checked="" type="checkbox"/> <b>Vitamin C</b> <i>1-3 g orally, daily</i>	Vitamin C contributes to immune defense by supporting various cellular functions of the immune system. Vitamin C has been used in hospital ICUs to treat COVID-19 infection.	■	■	■

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<input checked="" type="checkbox"/>	<b>Melatonin</b> <i>5-20 mg, taken at bedtime</i>	In addition to promoting restful sleep, melatonin has been shown to reduce inflammation.	■	■	
<input type="checkbox"/>	<b>Elderberry (<i>Sambucus nigra</i>)</b> <i>500 mg orally, daily</i>	Elderberry is packed with vitamin C, dietary fiber, and antioxidants. It has been used extensively in the prevention of influenza.	■	■	
<input type="checkbox"/>	<b>Palmitoylethanolamide (PEA)</b> <i>300 mg orally, 2x daily (prevention); 600-900 mg, 3x daily for 2 weeks (treatment)</i>	PEA is a naturally occurring anti-inflammatory agent that has been shown to improve outcomes in acute respiratory disease and influenza.	■	■	■
<input checked="" type="checkbox"/>	<b>Green tea or epigallocatechin gallate (EGCG)</b> <i>4 cups daily (green tea) 225 mg orally, daily (EGCG)</i>	In addition to reducing inflammation, green tea enhances the immune system and targets one of the processes involved in COVID-19 replication.	■	■	■
<input type="checkbox"/>	<b>Resveratrol</b> <i>100-150 mg orally, 2x daily</i>	Resveratrol, a natural compound found in red grapes, has many beneficial health effects and has been shown in the lab to attack a relative of the COVID-19 virus.	■	■	
<input checked="" type="checkbox"/>	<b>Beta glucans</b> <i>250-500 mg daily</i>	Beta glucans is both anti-inflammatory and enhances immune function while specifically benefitting those with upper respiratory tract infections caused by viruses.	■	■	■
<input type="checkbox"/>	<b>Medicinal mushrooms</b>  <i>*Dosing instructions should be individualized to validated methods and research on specific mushroom genus and species.</i>	Medicinal mushrooms have been shown to support the immune system while having antioxidant and antiviral effects.	■	■	
<input type="checkbox"/>	<b>Chinese skullcap</b> (standardized to flavonoids: baicalin or baicalein) <i>750-1500 mg daily</i>  <i>*Given the variability of standardization, dosing instructions should be individualized to validated methods and research for specific standardized extracts.</i>	Chinese Skullcap enhances innate immune function, reduces viral growth, favorably regulates lung-specific inflammation and injury as well as may reduce symptoms.	■	■	■

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<input type="checkbox"/> <b>Licorice root</b> (standardized to glycyrrhizin) <i>200-400 mg daily in divided doses (short-term use &lt;4 weeks)</i>	Licorice is commonly found in Traditional Chinese Medicine (TCM) formulations and supports immune system function and reduces viral growth.	■	■	■