Zinc Regulates immune system including allergic response; Deficiency can exacerbate asthma symptoms.\(^{31,32}\)

Selenium Part of the enzyme (called glutathione peroxidase) that protects against asthmatic lung tissue damage; Supplementation trials are promising.\(^{27,28,29,30}\)

Vitamin A Prevents exercise-induced asthma; Regulates bronchial responsiveness.\(^{25,26}\)

Magnesium Promotes relaxation of bronchial smooth muscle; Inhibits histamine release; Reduces tendency to develop anaphylaxis; Low intracellular levels linked to asthma severity.\(^{1,2,3,4}\)

Vitamin C Dilates bronchial airways; Inhibits histamine-induced constriction of airways; Needed for production of epinephrine, which mitigates asthma attacks.\(^{21,22}\)

Carnitine Protects the surface of the lungs; Improves pulmonary function in asthmatics; Decreases inflammation in lung tissue.\(^{5,6,7}\)

Vitamin B6 Binds with the chemical that causes airway constriction (histamine) and inactivates it; The common asthma drug theophylline depletes B6.\(^{23,24}\)

Coenzyme Q10 Steroid medications for asthma cause damage to mitochondria (site of cellular energy production); CoQ10 repairs this damage and may reduce corticosteroid dosage in asthmatics.\(^{8,9}\)

Vitamin E In pulmonary epithelial tissue (inside surface of lungs), vitamin E fights inflammatory enzymes that cause asthmatic symptoms.\(^{10,11,12,13}\)

Choline Animal and human studies show that taking choline strongly suppresses oxidative stress in lung tissue caused by asthma.\(^{14,15}\)

Folate Plays a key role in cellular immunity; Low folate status linked to severity of an allergic response.\(^{16,17}\)

Vitamin D Higher levels increase lung capacity in asthmatics; Deficiency increases severity of asthma attacks.\(^{18,19,20}\)

Vitamin B6 Binds with the chemical that causes airway constriction (histamine) and inactivates it; The common asthma drug theophylline depletes B6.\(^{23,24}\)

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