Ashwagandha for Cardiorespiratory Endurance



THEORY:

Ashwagandha is a known adaptogen, valued for its ability to increase vitality, energy, endurance and stamina, suggesting it could enhance physical performance. The question is whether a high concentration root extract of ashwagandha could enhance cardiorespiratory endurance and improve quality of life (QOL) in healthy athletic adults.



PARAMETERS:

A prospective, double-blind, randomized, placebo-controlled trial at Hyderabad Spine Clinics, Secunderabad, India. A total of 50 healthy adults aged between 20 and 45 years and normal body mass index (BMI) received 300 mg twice daily of ashwagandha (as KSM-66) or placebo for 12 weeks. Efficacy was evaluated by conducting a 20-minute Shuttle Run Test at baseline, week 8 and week 12, with a look at oxygen consumption at peak physical exertion (VO₂max); and quality of life assessed by a self-reported World Health Organization-QOL questionnaire.



OUTCOME:

Over the course of the study and at conclusion, in adults taking ashwagandha:

vo,max 4.91%



Quality of life (QOL) measures with social relationships up 9.46%

from baseline and subdomains physical health

from baseline.



Environmental impact on QOL also increased significantly by the end of the study







All changes were statistically significant compared to placebo.



Researchers concluded: "High-concentration full-spectrum Ashwagandha root extract improves an individual's resistance

IMPACT:

As adults look to get more yield from their workouts, improving

VO₂max—or the amount of oxygen the body can use during exercise supports muscle efficiency and performance.¹ Further, quality of life measures are critical to ensuring exercise enhances both physical and psychological measures.² Ayurvedic formulas known as Rasayanasuch as ashwagandha—have been used as a remedy for general weakness and to improve vitality and stamina; however, research was needed to prove clinical efficacy. The study results suggest ashwagandha (as KSM-66) enhances both cardiorespiratory endurance and quality of life in healthy, athletic adults.



- Helgerud J et al. Med Sci Sports Exerc. 2001;33(11):1925-31.
- Santos D, Ana Lucia P. J Physical Edu Sport. 2015;15(2).

Source: Choudhary B, Shetty A, Langade DG. "Efficacy of Ashwagandha (Withania somnifera [L.] Dunal) in improving cardiorespiratory endurance in healthy athletic adults." Ayu. 2015;36:63-8. DOI: 10.4103/0974-8520.169002

