Ashwagandha SAP

Science-based nutraceutical for optimal health*

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Commonly known as ashwagandha, 'Indian ginseng', or winter cherry, *Withania somnifera* has been used as a staple ingredient in Ayurvedic preparations due to its numerous therapeutic properties for over 3000 years. This plant has been used in the treatment of asthma, bronchitis, ulcers, insomnia and inflammation.* Ashwagandha is a unique herb with adaptogenic benefits, which helps modulate stress and anxiety responses to external and internal stimuli.* In recent years, clinical trials have supported the use of ashwagandha for weight management, muscle strength, sexual health in men and women, and various neurological disorders.*

Ashwagandha SAP may help alleviate chronic stress, and improve overall quality of life and can be used to relieve general debility, especially during convalescence or old age.* Ashwagandha SAP may help support testosterone production in males, improve sexual function in females.* Ashwagandha SAP may help improve muscle strength and is an ideal workout/ exercise supplement.*

	SUPPLEMENT FACI
	Servings: 60
Amount Per Serving	M Daily Value

	Amount Per Serving	% Daily Value		
Ashwagandha (Withania somnifera) roo	t extract			
(5% withanolides)	500 mg	**		

**Daily Value not established

Serving Size: 1 capsule

Other ingredients: Vegetable magnesium stearate and a vegetable capsule composed of vegetable hypromellose and purified water.

Contains no: Gluten, soy, wheat, eggs, dairy, yeast, citrus, preservatives, artificial flavor or color, starch, or sugar.

This product is non-GMO and vegan friendly.

Ashwagandha SAP contains 60 capsules per bottle.

DIRECTIONS FOR USE

Adults: See indication specific dosages below outlined in the table. Ashwagandha SAP can be taken with or without food. Some people may experience mild stomach discomfort, while taking on an empty stomach and can be taken after a small snack.

INDICATIONS

Ashwagandha SAP can:

- · Help increase resistance to chronic stress and improve overall quality of life.*
- Help improve fatigue and anxiety.*
- Help support physical aspects of sexual health in females and improve testosterone production in males.*
- Be used to promote nerve health and enhance memory.*
- Be used to relieve general debility, especially during convalescence or old age.*

CAUTIONS AND WARNINGS

Consult a health care practitioner prior to use if you are pregnant or breast feeding. Consult a healthcare practitioner prior to use if you have benign prostate hypertrophy and/or prostate cancer. If you have been diagnosed with hypoactive sexual disorder, sexual dysfunction, or erectile dysfunction, consult a health care practitioner prior to use. Consumption with alcohol, other drugs or natural health products with sedative properties is not recommended. Do not use if seal is broken. Keep out of reach of children.

PURITY, CLEANLINESS, AND STABILITY

All ingredients listed for each **Ashwagandha SAP** lot number have been tested by an ISO 17025 accredited third-party laboratory for identity, potency, and purity.

* These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.



Ashwagandha SAP

Stress Support*

DIETARY SUPPLEMENT

60 CAPSULES

Scientific Advisory Panel (SAP): adding nutraceutical research to achieve optimum health



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ASHWAGANDHA

Withania somnifera is a well-recognized herb worldwide due to its wide distribution and its use in traditional medicine. This small shrub herb belongs to the family Solanaceae, and grows up to a height of 0.5-2m. Geographically, ashwagandha grows in India, Sri Lanka, China, Canary Islands, Middle east, and South Africa, it has however been found in Australia and warmer regions of Europe as well ^(1,2). The unique phytochemical composition of ashwagandha consists of more than 40 withanolides, sitoindosides and over 12 alkaloids, which give the plant its unique therapeutic properties ⁽³⁾. Ashwagandha has been used in traditional medicine for the treatment of stress, inflammation, ulcers, acne, rheumatism, senile debility, nervous breakdowns; and has even been prescribed for snake venom and scorpion stings ⁽⁴⁾. In recent times, clinical trials have been conducted to support these claims. Ashwagandha has been found to not only have specific therapeutic properties, but also improve overall health and quality of life.

BENEFITS IN NEUROLOGICAL DISORDERS

Ashwagandha has long been used in the traditional medicinal system as a nervine tonic. In recent years, several clinical trials have further elucidated the benefits of aswagandha in the treatment of neurological disorders. In a randomized double blind placebo-controlled trial conducted with 30 obsessive compulsive disorder (OCD) patients, a dose of 120mg per day for 6 weeks significantly improved OCD symptoms compared to placebo (5). Administration of 500 mg of ashwagandha extract for 8 weeks to 53 patients suffering from bipolar disorder showed significant changes in cognitive responses, such as improved reaction time and social cognition (6). Thirty schizophrenic patients suffering from dyslipidemia, a side effect of anti-psychotics, showed remarkable decrease of serum triglycerides and fasting blood glucose after consumption of 400 mg ashwagandha extract thrice a day for one month (7). A preliminary study in ten patients suffering from degenerative cerebellar ataxia showed improved anteroposterior balance in these patients after administration of 500 mg ashwagandha thrice a day for one month ⁽⁸⁾. These benefits could potentially be attributed to the ability of withanolides to modulate cholinergic pathways, and their modulation of opioid receptors (9,10).

STRESS RELIEF AND REJUVENATION

In addition to psychological disorders, ashwagandha has the unique quality of being an adaptogenic herb, and shows capacity to attenuate immunosuppression, increased plasma corticosterone, gastric ulcerations and mental depression, which are hallmarks of chronic stress ⁽¹¹⁾. Several clinical trials have been conducted to observe the effects of ashwagandha on stress, anxiety and fatigue. In a non-randomized trial of 100 breast cancer patients undergoing chemotherapy, 2 g of ashwagandha extract was administered every 8 hours throughout the course of chemotherapy. Compared with the control group, patients administered ashwagandha extract showed significantly less fatigue and significant changes in symptoms, indicative of an improved quality of life ⁽¹²⁾. In one study conducted with 52 participants suffering from chronic stress found that administration of 300 mg of ashwagandha extract twice a day for 8 weeks showed a significant improvement in perceived stress, food cravings as well as serum cortisol, body weight and body mass index ⁽¹³⁾. Another study conducted with 41 employees with moderate to severe anxiety exhibited reduced anxiety levels, better concentration, less fatigue and an improved quality of life after being administered 300 mg of ashwagandha extract twice a day for 12 weeks ⁽¹⁴⁾.

DIABETES AND CARDIOVASCULAR BENEFITS

Apart from mental disorders and ailments, ashwagandha has other numerous physiological benefits. In a cohort of six participants diagnosed with non-insulin dependent diabetes mellitus and hypercholesterolemia, a dose of 3 g per day for 30 days brought about a reduction in blood glucose comparable to the effect of an oral hypoglycemic drug. Subjects also showed reduction in levels of serum triglycerides, low density lipoproteins (LDL) and very low density lipoproteins (VLDL) ⁽¹⁵⁾. In a randomized, double blinded placebo controlled study conducted with 57 participants, consuming 300 mg of ashwagandha extract twice a day for 8 weeks significantly increased muscle strength and mass, and reduced muscle damage and body fat percentage ⁽¹⁶⁾.

PAIN AND IMMUNE SUPPORT

In a pilot study that evaluated the administration of 5 g of ashwagandha extract twice a day for 3 weeks to 78 participants, a remarkable reduction in intensity of tender joints, swollen joints and pain were observed ⁽¹⁷⁾. In another study, the effect of ashwagandha extract on immune cells was investigated in five participants who were administered 6 ml of ashwagandha root extract twice a day for 96 hours. The researchers found that the expression of all immune cell receptors such as CD4 and CD56 receptors was increased, indicating the immune response modulating properties of ashwagandha ⁽¹⁸⁾.

REPRODUCTIVE HEALTH

Given the overall health benefits of ashwagandha, its uses in improvement of reproductive health have been studied, and beneficial effects in male and female sexual health have been observed. In a pilot study conducted with 50 subjects, 300 mg of high-concentration ashwagandha root twice daily for 8 weeks improved Female Sexual Function Index (FSFI), Female Sexual Distress Scale (FSDS) in participants compared to placebo treatment ⁽¹⁹⁾. Ashwagandha was found to improve levels of lactate, alanine, citrate, histidine, phenylalanine in seminal plasma, and improve serum biochemistry in 50 infertile men administered 5 g ashwagandha daily for 3 months ⁽²⁰⁾. Administration of 5 g daily for 3 months showed improved sperm count and motility, inhibited lipid peroxidation and restored seminal plasma levels of antioxidant enzymes and vitamins A, C and E, in a study conducted with 75 male participants diagnosed with infertility. Hormone imbalances of testosterone, luteinizing hormone, follicle stimulating hormone also appeared reversed in these subjects compared to control treatment ⁽²¹⁾.

REFERENCES:

- Hepper, FN., et al. Old World Withania (Solanaceae): a taxonomic review and key to the species. Solanaceae III: taxonomy, chemistry, evolution. Royal Botanic Gardens Kew and Linnean Society of London.
- 2. Purdie, RW., et al. Solanaceae. Flora Aust. 1982;29:184.
- 3. Mirjalili, MH., et al. Steroidal lactones from *Withania somnifera*, an ancient plant for novel medicine. Molecules. 2009 Jul;14(7):2373-93.
- Dar, NJ., et al. Pharmacologic overview of Withania somnifera, the Indian ginseng. Cell Mol Life Sci. 2015 Dec;72(23):4445-60.
- Jahanbakhsh, SP., et al. Evaluation of the efficacy of Withania somnifera (Ashwagandha) root extract in patients with obsessive-compulsive disorder: A randomized double-blind placebo-controlled trial. Complement Ther Med. 2016 Aug;27:25-9.
- Chengappa, KN., et al. Randomized placebo-controlled adjunctive study of an extract of Withania somnifera for cognitive dynfunction in bipolar disorder. J Clin Psychiatry. 2013 Nov;74(11):1076-83.
- Agnihotri, AP, et al. Effects of Withania somnifera in patients of schizophrenia: a randomized, double blind, placebo controlled pilot trial study. Indian J Pharmacol. 2013 Jul-Aug;45(4):417-8.
- Sriranjini, SJ., et al. Improvement of balance in progressive degenerative cerebellar ataxis after Ayurvedic therapy: a preliminary report. Neurol India. 2009 Mar-Apr;57(2):166-71.
- 9. Bhattacharya SK, Kumar A, Ghosal S. Effects of glycowithanolides from *Withania* somnifera on animal model of Alzheimer's disease and perturbed central cholinergic markers of cognition in rats. Phytother Res. 1995;9:110–3.
- Caputi, FF., et al. The standardized Withania somnifera Dunal root extract alters basal and morphine-induced opioid receptor gene expression changes in neuroblastoma cells. BMC Complement Altern Med. 2018 Jan;18(1):9.
- Bhattacharya, SK., et al. Adaptogenic activity of Withania somnifera: an experimental study using a rat model of chronic stress. Pharmacol Biochem Behav. 2003 Jun;75(3):547-55.
- 12. Biswal, BM., et al. Effect of Withania somnifera (Ashwagandha) on the development of chemotherapy-induced fatigue and quality of life in breast cancer patients. Integr Cancer Ther. 2013 Jul;12(4):312-22.
- Choudhary, D., et al. Body weight management in adults under chronic stress through treatment with ashwagandha root extract: a double blind, randomized, placebo controlled trial. J Evid Based Complementary Altern Med. 2017 Jan;22(1):96-106.
- 14. Cooley, K., et al. Naturopathic care for anxiety: a randomized controlled trial ISRCTN78958974. PLoS One. 2009 Aug;4(8):e6628.
- Andallu, B., et al. Hypoglycemic, diuretic and hypocholesteromic effect of winter cherry (Withania somnifera, Dunal) root. Indian J Exp Biol. 2000 Jun;38(6):607-9.
- Wakhede, S., et al. Examining the effect of Withania somnifera supplementation on muscle strength and recovery: a randomized controlled trial. J Int Soc Sports Nutr. 2015 Nov;25:12-43.
- Kumar, G., et al. Efficacy and safety evaluation of Ayurvedic treatment (Ashwagandha powder and Sidh Makardhwaj) in rheumatoid arthritis patients: a pilot prospective study. Indian J Med Res. 2015 Jan;141(1):100-6.
- Mikolai, J., et al. In vivo effects of Ashwagandha (Withania somnifera) extract on the activation of lymphocytes. J Altern Complement Med. 2009 Apr;15(4):423-30.
- Dongre, S., et al. Efficacy and safety of Ashwagandha (Withania somnifera) root extract in improving sexual function in women: a pilot study. Biomed Res Int. 2015 Sep; 2015: 284154.
- Gupta, A., et al. Efficacy of Withania somnifera on seminal plasma metabolites of infertile males: a proton NMR study at 800MHz. J Ethnopharmacol. 2013 Aug;149(1):208-14.
- Ahmad, MK., et al. Withania somnifera improves semen quality by regulating reproductive hormone levels and oxidative stress in seminal plasma of infertile males. Fertil Steril. 2010 Aug;94(3):989-96.

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INDICATION SPECIFIC DOSAGE SUMMARY BASED ON HUMAN CLINICAL RESEARCH#

*Please note these suggestions are guidelines based on the clinical studies. Evidence for efficacy and safety has been qualitatively (study quality in terms of study design, sample size, appropriate methods of analysis, use of appropriate placebo/control, bias etc) assessed and has been rated using a 5 star 🖈 rating classification.

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Indication	Suggested dosage	Supporting evidence and study outcomes	Study design	Outcome measures/ selection criteria for studies	Safety	Evidence quality rating
Neurological	Disorders					
OCD ¹	1 capsule/day	Reduction in Obsessive Compulsive Disorder scores*	Randomized, double-blind, placebo controlled (n=30, 6 weeks); 120 mg/day	Yale-Brown Obsessive-Compulsive Scale (Y-BOCS). SPSS KruskaL- Wallis and Mann-Whitney U tests	No adverse events reported	****
DSM-IV bipolar disorder²	2 capsules/day	Improvement in cognition and markers of bipolar disorder*	Randomized, double-blind, placebo controlled (n=53, 8 weeks); 500 mg/day (8% withanolides)	Cognition-Digit span backward, Flanker neutral response time, Penn Emotional Acuity Test, ANCOVA	No adverse events reported	****
Schizophrenia (and anti- psychotics induced dyslipidemia) ³	3 capsules/day	Reduction in serum triglycerides, fasting blood glucose*	Randomized, double-blind, placebo controlled (n=30, 1 month); 1200 mg/day	Fasting blood glucose, serum triglycerides, high-density cholesterol. Paired t-test and unpaired t-test	No adverse events reported	****
Memory and cognition ⁴	2 capsules/day	Improved immediate and general memory, executive function, sustained attention, information processing speed*	Randomized, double-blind, placebo-controlled (n=50, 8 weeks); 600 mg/day	Wechsler Memory Scale III, Erikson Flanker task, Wisconsin Card Sort test, TriaL-Making test part A, Mackworth Clock test	No adverse events reported	****
Depression and anxiety (schizophrenia patients) ⁵	2 capsules/day	Improvement of depression single item, depression-anxiety cluster scores*	Randomized, double-blind, placebo-controlled (n=66, 12 weeks); 1000 mg/day	Positive and negative syndrome scale (examination of cluster subscores)	Mild and transient adverse effects	****
Progressive degenerative cerebellar ataxia ⁶	3 capsules/day	Improvement in walking, overall and anteroposterior balance- indicators of dynamic stability*	Preliminary open labelled study (n=10, 1 month); 1500 mg/day	Biodex balance system, Paired samples t-test	No adverse events reported	*
Stress Manag	ement					
Weight management in chronic stress ⁷	2 capsules/day	Improvement in perceived stress, food cravings and serum cortisol, body weight, body mass index*	Randomized, double-blind, placebo controlled (n=52, 8 weeks); 600 mg/day	Perceived Stress Scale (PSS), Food Cravings Questionnaire Trait (FCQ-T), Oxford Happiness Questionnaire (OHQ), Three-Factor Eating Questionnaire (TFEQ), serum cortisol, body weight, body mass index	No adverse events reported	****
Anxiety ⁸	1 capsule/day	Reduced anxiety scores, improved mental health, concentration, social functioning, vitality, overall quality of life, reduced fatigue*	Randomized, double-blind, placebo controlled (n=75, 12 weeks); 600 mg/day- 1.5% withanolides	Neck Anxiety Inventory (BAI), Short Form 36 (SF-36), Fatigue Symptom Inventory (FSI), Measure Yourself Medical Outcomes Profile (MY-MOP)	No adverse events reported	****
Stress relief9	4 capsules/day	Reduction in anxiety, depression and stress scores, reduced cortisol and DHEA-S levels*	Randomized, double-blind, placebo-controlled trial (n=60, 60 days); 240 mg/ day- 35% withanolides, 84 mg withanolide glycosides/capsule	Hamilton Anxiety Rating Scale (HAM-A), Depression, Anxiety, Stress Scale-21 (DASS-21), dehydroepiandrosterone- sulphate (DHEA-S), cortisol and testosterone	No adverse events reported	****
Sleep ¹⁰	2 capsules/day	Improvement of sleep parameters, more in insomnia patients, improvement in anxiety scores*	Randomized, double-blind, placebo-controlled parallel trial (n=80, 8 weeks); 600 mg/day	Sleep parameters - onset latency, total sleep time, wake after sleep onset, total time in bed, Hamilton Anxiety Rating Scale (HAM-A), Pittsburgh sleep quality index	No adverse events reported	****
Sleep ¹¹	1 capsule/day	Improvement in sleep quality and efficiency, improved quality of life parameters*	Randomized, double-blind, placebo-controlled trial (n=150, 6 weeks); 120 mg/day, 21mg withanolide glycosides/capsule	Restorative Sleep Questionnaire, World Health Organization Quality of Life Bref (WHOQOL), sleep parameters - onset, latency, total, wake up time	No adverse events reported	****



Reproductive Health

Male sexual health ¹²	1 capsule/day	Increased levels of DHEA-S and testosterone*	Randomized, double-blind, placebo-controlled crossover trial (n=57, 8 weeks); 300 mg/ day (21mg of withanolides daily)	Profile of Mood States Short Form (POMS-SF), Aging Males Symptoms (AMS), salivary levels of DHEA-S, testosterone, cortisol and estradiol	No adverse events reported	****
Sexual function in women ¹³	2 capsules/day	Improvement in sexual function score and female sexual distress scale*	Randomized, placebo controlled, double-blind (n=50, 8 weeks)- pilot; 600 mg/day, 5% withanolides	Female sexual function index (FSFI) Questionnaire, Female sexual distress scale (FSDS)	No adverse events reported	***
Male infertility ¹⁴	2 capsules/day	Improved semen quality and levels of amino acids in seminal plasma, improved enzymatic activity and reproductive hormonal balance*	Prospective study (n=180, 3 months); 5000 mg/day (Withanolide potency assumed at 1%)	Proton NMR spectroscopy to measure seminal plasma amino acids, sperm concentration, motility, lipid peroxide, hormonal balance	No adverse events reported	**
Male infertility ¹⁵	2 capsules/day	Improved sperm count and motility, reduced lipid peroxidation and protein carbonyl content, increase in serum testosterone, leutinizing hormone, reduced levels of follicle-stimulating hormone and prolactin*	Prospective study (n=75, 3 months); 5000 mg/day (Withanolide potency assumed at 1%)	Seminal plasma biochemical parameters, antioxidant vitamins, serum testosterone, leutinizing hormone, follicle-stimulating hormone, prolactin levels	No adverse events reported	**
Muscle Strength						
Muscle mass and strength ¹⁶	2 capsules/day	Increased muscle strength and size, reduced exercise-induced muscle damage, increased testosterone, decreased body fat percentage*	Randomized, placebo controlled, double-blind (n=57, 8 weeks); 600 mg/day, 5% withanolides	Muscle strength (1 repetition maximum), testosterone serum levels, muscle size, body fat percentage, muscle recovery. ANOVA	No adverse events reported	****

Hypothyroidism

Subclinical hypothyroidism ¹⁷	2 capsules/day	Improvement in serum TSH, T3, T4*	Randomized, double-blind, placebo-controlled trial (n=50, 8 weeks); 600 mg/day	Serum TSH, serum triiodothyronine (T3), and thyroxine (T4) levels	4/50 subjects reported fever, asthenia, cough and headache (milk and temporary)	****
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References:

- 1. Jahanbakhsh, SP, et al. Evaluation of the efficacy of Withania somnifera (Ashwagandha) root extract in patients with obsessive compulsive disorder: A randomized double-blind placebo-controlled trial. Complement Ther Med. 2016 Aug;27:25-9.
- Chengappa, KN., et al. Randomized placebo-controlled adjunctive study of an extract of Withania somnifera for cognitive dynfunction in bipolar disorder. J Clin Psychiatry. 2013 Nov;74(11):1076-83
- 3. Agnihotri, AP., et al. Effects of Withania somnifera in patients of schizophrenia: a randomized, double blind, placebo controlled pilot trial study. Indian J Pharmacol. 2013 JuL-Aug;45(4):417-8.
- Choudhary D, Bhattacharyya S, Bose S. Efficacy and Safety of Ashwagandha (Withania somnifera (L.) Dunal) Root Extract in Improving Memory and Cognitive Functions. J Diet Suppl. 2017 Nov 2;14(6):599-612.
- 5. Gannon JM, Brar J, Rai A, Chengappa KNR. Effects of a standardized extract of Withania somnifera (Ashwagandha) on depression and anxiety symptoms in persons with schizophrenia participating in a randomized, placebo-controlled clinical trial. Ann Clin Psychiatry. 2019 May;31(2):123-129.
- Sriranjini, SJ., et al. Improvement of balance in progressive degenerative cerebellar ataxis after Ayurvedic therapy: a preliminary report. Neurol India. 2009 Mar-Apr;57(2):166-71.
 Choudhary, D., et al. Body weight management in adults under chronic stress through treatment with ashwagandha root extract: a double blind, randomized, placebo controlled trial. J Evid Based Complementary Altern Med. 2017 Jan;22(1):96-106.
- Cooley, K., et al. Naturopathic care for anxiety: a randomized controlled trial ISRCTN78958974. PLoS One. 2009 Aug;4(8):e6628.
- Lopresti AL, Smith SJ, Malvi H, Kodgule R. An investigation into the stress-relieving and pharmacological actions of an ashwagandha (Withania somnifera) extract: A randomized, double-blind, placebo-controlled study. Medicine (Baltimore). 2019 Sep;98(37):e17186.
- 10. Langade D, Thakare V, Kanchi S, Kelgane S. Clinical evaluation of the pharmacological impact of ashwagandha root extract on sleep in healthy volunteers and insomnia patients: A double-blind, randomized, paralleL-group, placebo-controlled study. J Ethnopharmacol. 2021 Jan 10;264:113276.
- 11. Deshpande A, Irani N, Balkrishnan R, Benny IR. A randomized, double blind, placebo controlled study to evaluate the effects of ashwagandha (Withania somnifera) extract on sleep quality in healthy adults. Sleep Med. 2020 Aug;72:28-36.
- Lopresti AL, Drummond PD, Smith SJ. A Randomized, Double-Blind, Placebo-Controlled, Crossover Study Examining the Hormonal and Vitality Effects of Ashwagandha (Withania somnifera) in Aging, Overweight Males. Am J Mens Health. 2019 Mar-Apr;13(2):1557988319835985.
- 13. Dongre, S., et al. Efficacy and safety of Ashwagandha (Withania somnifera) root extract in improving sexual function in women: a pilot study. Biomed Res Int. 2015 Sep; 2015: 284154.
- Gupta, A., et al. Efficacy of Withania somnifera on seminal plasma metabolites of infertile males: a proton NMR study at 800MHz. J Ethnopharmacol. 2013 Aug;149(1):208-14.
 Ahmad. MK., et al. Withania somnifera improves semen guality by regulating reproductive hormone levels and oxidative stress in seminal plasma of infertile males. Fertil Stei
- 15. Ahmad, MK., et al. Withania somnifera improves semen quality by regulating reproductive hormone levels and oxidative stress in seminal plasma of infertile males. Fertil Steril. 2010 Aug;94(3):989-96.
- 16. Wakhede, S., et al. Examining the effect of Withania somnifera supplementation on muscle strength and recovery: a randomized controlled trial. J Int Soc Sports Nutr. 2015 Nov;25:12-43.
- 17. Sharma AK, Basu I, Singh S. Efficacy and Safety of Ashwagandha Root Extract in Subclinical Hypothyroid Patients: A Double-Blind, Randomized Placebo-Controlled Trial. J Altern Complement Med. 2018 Mar;24(3):243-248.