Bacopa SAP

Science-based cognitive-health support

Bacopa monnieri, commonly known as Indian pennywort and water hyssop, is well-known for its therapeutic effects, including its role in promoting memory and intellect and its efficacy in treating psychiatric disorders like hallucinations, schizophrenia, obsessive-compulsive disorder, and psychosis. Triterpenoid saponins present in bacopa, called bacosides, are primarily responsible for their efficacy in enhancing neuronal transmission by restoring synaptic activity. NFH Bacopa SAP provides high-quality Bacopa monnieri extract standardized to 45% bacosides that can help foster memory, promote cognitive health, and improve mood disorders.

ACTIVE INGREDIENT

Each vegetable capsule contains:

NON-MEDICINAL INGREDIENTS: Microcrystalline cellulose, vegetable magnesium stearate, and silicon dioxide in a non-GMO vegetable capsule composed of vegetable carbohydrate gum and purified water.

This product is non-GMO and vegan-friendly.

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

Bacopa SAP contains 60 capsules per bottle.

DIRECTIONS FOR USE

Take 1 capsule daily or as directed by your healthcare practitioner.

INDICATIONS

Bacopa SAP can help:

- Improve memory
- Promote cognitive function
- Foster mental health
- Support cardiovascular health

CAUTIONS AND WARNINGS

Consult a healthcare practitioner prior to use if you are pregnant or breastfeeding.

KNOWN ADVERSE REACTIONS

May cause digestive problems.

PURITY, CLEANLINESS, AND STABILITY

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



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



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Bacopa SAP

Research Monograph

Bacopa monnieri, commonly known as Indian pennywort and water hyssop, is native to India, Bangladesh, and a few parts of southern Asia. [1] Bacopa, or brahmi, is known for its therapeutic effects, including its efficacy in promoting memory and intellect and in treating psychiatric disorders like hallucinations, schizophrenia, obsessive-compulsive disorder, and psychosis.[2] The mechanism of action of bacopa is explained by its antioxidant neuroprotection potential through the reduction of metal ions, free-radical scavenging, and inhibiting lipid peroxidation. It also reduces β-amyloid synthesis, increases cerebral blood flow, and modulates neurotransmitters.[3] Triterpenoid saponins present in bacopa, called bacosides, are primarily responsible for its efficacy in enhancing neuronal transmission by restoring synaptic activity.[4] The other saponins include bacoside A3, bacopaside II, bacopasaponin C isomer, bacopasaponin C, and bacopaside I.[5] A study evaluated nine different extraction techniques and concluded that methanolic extract of soaked bacopa plant material yielded the highest amount of saponins. [5]

COGNITIVE BENEFITS

A prime reason for defective cognition is the oxidative damage of brain cells by reactive oxygen species. A study on diabetic rats showed that oral administration of bacopa extract (50, 125, and 250 mg/kg body weight) helped significantly reverse the peroxidative damage with its excellent antioxidant potential. [6] A similar study on prepubertal mice showed that the herb could help in minimizing malondialdehyde levels, reactive-species generation, hydroperoxide levels, and protein carbonyls; thereby, a substantial drop in acetylcholinesterase activity was observed in all brain regions.[7] A meta-analysis of nine randomized, placebocontrolled, clinical studies showed that supplementation of 300 to 600 mg/d of Bacopa monnieri extract helped significantly enhance cognition, leading to a substantial enhancement in speed of attention.[8] Likewise, a systematic review of bacopa supplements showed that it helped enhance cognitive abilities such as memory-free recall after receiving 300 to 450 mg/d of supplement. [9]

Several animal and human trials have shown that bacopa has proven anxiolytic, antidepressant, and memory-enhancing efficacy.[10] In a study on Wistar rats that had ethanol-induced anxiolysis and withdrawal anxiety, the rats were supplemented with 50, 100, 200, and 400 mg/kg of tween-80-extracted bacopa. All of the doses showed substantial anxiolytic effects.[11] A clinical intervention studied the effect of 300 mg of Bacopa monnieri extract: It revealed that the extract helped improve the Rey Auditory Verbal Learning Test score and helped in a substantial decrease in heart rate and anxiety score. [12] Also, in two other trials of KeenMind and BacoMind, the extract showed significant improvement in the retention of information and betterment of anxiety scores, respectively.[13, 14]

Elevation of lipid peroxidation in the patient's brain has been shown to the key driver of Alzheimer's disease pathophysiology. [15] As mentioned above, bacopa has exceptional antioxidant potential; thus, it is predicted to be a promising treatment option for the disease. [6, 15] Male Wistar rats administrated with bacopa had reduced cholinergic neuron densities and improved Morris water-maze test's escape-latency time. $^{[15]}$ A type of peptide called A β is known to play a prominent role in the Alzheimer's disease progression. When incubated with bacoside A, $\ensuremath{\mathsf{A}\beta42}$ significantly reduces, inhibiting its interaction with the membrane. [16] Research on delivering bacopa nanoparticles in liposomes, polymeric micelles, and polymersomes to specific target areas, including the brain, is in the pipeline.[17] A phase II clinical study used 300 mg of bacopa extract: It showed that it led to a significant change in the total postgraduate institute (PGI) memory scale compared to Donepezil-treated individuals.[18] Similarly, an open-label study found that the extract significantly improved orientation of time, place attention, and language components in reading, writing, and comprehension, and substantially decreased irritability and insomnia.[19]

SEIZURE MANAGEMENT

Seizures become pronounced when disruption in gamma-aminobutyric acid (GABA) balance occurs. GABA is the primary inhibitory neurotransmitter in the cerebral cortex, and it sets the inhibitory quality to balance neuronal excitation. [20] A study on epileptic rats showed bacopa extract and bacoside A helped in reversing epilepsy-associated symptoms, and it correlated with the decrease in the GABA receptors.[21] A similar animal-based study showed that bacopa extract helped increase acetylcholine levels, reversing the seizure. [22]

MENTAL HEALTH SUPPORT

In Parkinson's disease-affected rats, bacopa exhibited promising antioxidant activity and helped reduce inflammation in various parts of the brain.[23] Another preclinical study showed that bacopa extract has a neuroprotective potential, and it prevented MPTP-induced (1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine) degeneration of the nigrostriatal dopaminergic neurons. [24] A clinical intervention showed that 225 to 450 mg of bacopa extract can significantly improve emotional function and substantially enhance quality-of-life and motor outcomes.[25] Improvement in motor speed was seen in another randomized clinical trial; this study also suggested an increase in serum calcium levels after receiving bacopa

supplementation.[26] Likewise, human intervention, including 450 mg of bacopa extract, improved the digit-span backward test, list-learning delayed-recall test, and paired-associates dissimilar delayed-recall test, and showed a substantial enhancement in attention and verbal memory.[27] A randomized clinical study reported decreased pain-related symptoms and improved emotional wellbeing and general health, with 100 participants receiving 300 mg/d of bacopa for 28 days. [28] Similarly, in a study on 42 individuals affected by anhedonia, bacopa significantly improved the Snaith-Hamilton Pleasure Scale score and substantially enhanced the Hamilton depression rating scale.[29]

VASCULAR FUNCTION

A study on rabbits and guinea pigs showed the remarkable spasmolytic effect of the bacopa extract on smooth muscles, primarily attributed to its powerful ability to inhibit calcium influx through both voltage- and receptor-operated calcium channels.[30] The vasodilation effect of bacopa's chemical components, such as flavonoids (luteolin and apigenin), bacopaside I, and the saponin mixture (bacoside A), was studied: The results revealed that flavonoids had twice as much vasodilating potential as saponins in the bacopa extract.[31] A clinical study on patients aged over 65 years exhibited a marginal improvement in microvascular blood and a substantial decrease in memory recall after receiving 194 mg/d of Bacopa monnieri extract for 12 weeks.[32] In a study of the effect of bacopa extract on rat cerebral cortex using laser, Doppler showed that it enhanced the cerebral blood flow.[33

HYPOTHYROIDISM

A study on the effect of bacopa on thyroid function analyzed the thyroid hormone levels in plasma; lipid profile; and enzymes such as catalase, superoxide dismutase, and reduced glutathione. The results exhibited a significant increase in T3 and T4 levels and a corresponding drop in the TSH level.[34] A study on male rats has shown that bacopa can stimulate the thyroid gland and increase the concentration of T4 hormone by a noteworthy 41%. This is achieved without causing any adverse effects on the liver, such as lipid peroxidation (LPO). These findings suggest that B. monnieri could be used as a safe and effective thyroidstimulating drug.[35] Likewise, a preclinical study on the effect of aluminum on thyroid gland function showed that the administration of 40 mg/kg body weight of bacopa can help nullify the ill-effects of the metal. [36]

REFERENCES

- UNULE (Gupta, P. Kumar, A. Singh, and A. Kumar. "Bacopa monnieri (Brahmi)". Chapter 3.2.4 (p. 245-256) in Neturolly Occurring Chemicols Against 5 Diseases, London: Academic Press, 2021, 503 p. 3.0xni, ISBN 978-072-838272-2. [Value Hanking ingeriedinst from Ayuredic medicine: Guintessential scanniple of Bocopa monniera, a narrative review." Nutrients, Vol. 5, Verant enhancing ingeriedinst from Ayuredic medicine: Guintessential scanniple of Bocopa monniera, a narrative review." Nutrients, Vol. 5, Verant enhancing in Section (Control of Control of
- Singh, H.K. "Brain enhancing ingredients from Ayurveich medicine: Quintessential example of Bocopo moninera, a natrative review." Nutrients, Vol. 5, 35-35hilin, V.R. 53, Netskalanta, and LS. Strinnjini. "Neuroprotection with Bocopo monineri—A review of experimental evidence." Molecular Biology Reports, Vol. 48, No. 3 (2021): 2653–2668.

 Not. 1809, No. 1809,

- Callautes, t., with the second of the second

- lead in Alzheimer disease: A review on its properties, mechanisms of action, and preclinical and climical studies? *Drug Target Insights*, vol. 1s (2019). "ITT972818966421". A. Bushra, A. Gupta, M.V.P. Srivastava, A. Basheer, I. Sharma, and V.Y. Vishnu. "Importance of high-quality evidence regarding the use of Bocopomonier in dementia." *Prontiers in Aging Neuroscience*, Vol. 15 (2022): 1134775.
 "Prächslars, S., V.Y. Vishnu, M. Modi, M. Mohanty, A. Sharma, B. Medhl, B.R. Mittal, et al. "Efficacy of Bocopo monnieri (Brahm) and Donepezil in Alzheimer's diesses and mild cognitive impairment. A randomized double-bildip parallel phase 2b study." *Annols of the Indian Academy of Neurology*, Vol. 23, No. 6
- dissase and mild Cognitive impairment. A randomized double-blind parallel phase 25 study. Annots of the motion. Accuracy, 1976.

 10. Goswami, S., A. Sapii, N. Kumar, V. Thawani, M. Tiwari, and M. Thawani. "Effect of Bocopa monnieri on cognitive functions in Alzheimer's disease patients." international journal of Collaborative Research on Internal Medicine 8. Public Readth, Vol. 3, No. 4 (2011): 285-291.

 11. Mathew, J., S. Balkirishman, S. Antony, P.M. Ahraham, and C.S. Paulose. "Decreased GABA receptor in the cerebral cortex of epileptic rats: Effect of Bocopa monnieri and Bacoside-A" journal of Biomedical Science, Vol. 19, No. 1 (2012): 25.

 12. Konali, E., C. Venkataramaiah, and W. Rajendra. "Anti-epileptic potential of Bocopa monnier in the rain during PT2-induced epilepsy with reference to cholinergic yether and ATRases." journal of Traditional and Complementary Medicine, Vol. 11, No. 1 (2012): 137-143.

 12. Singh, S., Pandey, N. Kumman, and A.K. Mahdi. "Neuroprotective effects of Bocopa monnier in Parkinson's disease model." Metabolic Brain Disease. Singh, 8.5, Pandey, N. Kumman, S. Kumar, P. Kushmaha, R. Verma, and A.A. Mahdi. "Neuroprotective and neuroprotective and neuroprotective and neuroprotective and resources come doed action of Bocopa monnier ii. Vetts in in-methyl-e-phenyl-1,2,5-tetrahydropyridine-induced Parkinson's disease: An in silico and in vivo study." Frontiers in Mathematical Vettor 11 (1914) 17 (2012) 1841.

- moninari (L) Wettst in 'methyl-'e-)henyf-1,23.6-tetrahydropyridine-induced Parkinson's disease. An in silico and in vivo suby." Frontiers in 'hormzoclogy, Vol. 17 (2021): Bélony, Vol. 17 (2021): Bél
- BacoMind's on memory improvement in elderly participants—A double blind placebo controlled study. Pournal of Pharmacology and Toxicology, Not. 3, Nos. (2008): C3-24, L. S., Smith, S. Ali, R.P. Metse, I. Kalins, and P.D. Drummond. "Effects of a Bocopa monieri estract (Bacognize®) on stress, fatigue, quality of Logical, L. L. S., Smith, S. Ali, R.P. Metse, I. Kalins, and P.D. Drummond. "Effects of a Bocopa monieri estract (Bacognize®) on stress, fatigue, quality of 1980 and 1981 and
- Iffe and sleep in adults with self-reported poor sleep: A randomised, double-blind, placebo-controlled study," *Journal of Functional Foods*, Vol. 85 (2021): 00-671.

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Bacopa SAP Science-based cognitive-health support



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 have been qualitatively (study quality in terms of study design, sample size, appropriate methods of analysis, use of appropriate placebo/control, bias, etc.) assessed and have been rated using a 5-star * rating classification.

Indication	Suggested dosage	Supporting evidence and study outcome	Study design	Outcome measures	Safety	Evidence quality rating
Mental Hea	ılth					
Cognition 1,2,3,4,5	1 to 2 capsules/day	Significant improvement in the cognitive performances postdosage including serial 3s and 7s subtraction.	Randomized, double-blind, placebo-controlled, crossover study. n = 24; 320 mg or 640 mg of Bacopa monnieri extract for 2 hours.	Cognitive Demand Battery, stress and mental fatigue, visual analogue scale, Rapid Visual Information Processing task, blood pressure	No severe adverse effects were reported	***
	1 to 2 capsules/day	Significant enhancement of cognition, additionally a substantial enhancement in speed of attention postdosage.	9 randomized, placebo- controlled studies. n = 518; 300 to 600 mg/d of Bacopa monnieri extract for 12 to 24 weeks.	Memory function, attention	No severe adverse effects were reported (gastrointestinal problems like stool frequency, nausea, abdominal cramps)	****
	1 to 2 capsules/day	Significant improvement in the cognitive abilities such as memory free recall after receiving the supplement.	6 randomized, parallel group, double-blind, and placebocontrolled studies. n = 454; 300 to 450 mg/d of Bacopa monnieri extract for 12 weeks.	Reasoning, language behaviour, memory, visual perception, auditory perception, mental speed	No severe adverse effects were reported	****
	1 capsule/day	Significant improvement in spatial working memory accuracy; also a substantial decline in the false positives in Rapid Visual Information Processing Task in the supplemented group.	Randomized, double- blind, placebo-controlled, independent group design study. n = 62; 300 mg/d of <i>Bacopa</i> monnieri extract for 90 days.	Cognitive Drug Research cognitive assessment system, Rapid Visual Information Processing Task	No severe adverse effects were reported	***
	1 capsule/day	Significant improvement in verbal learning, memory acquisition, and delayed recall; also a substantial improvement the Rey-Osterrieth Complex Figure Test and Memory Complaint Questionnaire scores.	Randomized, double-blind, placebo-controlled study. n = 98; 300 mg/d of <i>Bacopa monnieri</i> extract for 12 weeks.	Audioverbal and visual memory performance, the Rey-Osterrieth Complex Figure Test, the Reitan Trail Making Test, the Memory Complaint Questionnaire	No severe adverse effects were reported (gastrointestinal problems)	***
Anxiety ^{6,7,8,9}	1 capsule/day	Significant improvement in visual information processing speed, and a substantial improvement in anxiety.	Randomized, double- blind, placebo-controlled, independent group design study. n = 46; 300 mg/d of Bacopa monnieri extract for 90 days.	Neuropsychological test battery, learning rate, memory consolidation, Rey Auditory Verbal Learning test	No severe adverse effects were reported (nausea, dry mouth, fatigue)	***
	1 capsule/day	Significant improvement in the Rey Auditory Verbal Learning Test score; also a substantial decrease in heart rate and anxiety score after supplementation.	Randomized, double-blind, placebo-controlled study. n = 54; 300 mg/d of <i>Bacopa</i> monnieri extract for 12 weeks.	Rey Auditory Verbal Learning test, State-Trait Anxiety Inventory, Center for Epidemiologic Studies Depression scale (CESD)-10 depression scale, the Profile of Mood States	No severe adverse effects were reported (gastrointestinal problems)	***
	1 to 2 capsules/day	Significant improvement in the retention of information, suggesting the antioxidant potential of the supplement within the hippocampus.	Randomized, double-blind, placebo-controlled study. <i>n</i> = 76; 300 to 450 mg/d of <i>Bacopa monnieri</i> extract for three months.	Memory performance; visual span task; speeded coding task; delayed recall; Depression, Anxiety and Stress Scale	No severe adverse effects were reported (gastrointestinal problems)	***
	2 capsules/day	Although no significant improvement in cognition, there was a significant improvement corresponding to the anxiety scores.	Randomized, double-blind, placebo-controlled paralleldesign study. n = 72; 450 mg/d of Bacopa monnieri extract for 12 weeks.	Verbal learning and memory, inspection time, attention, interference, state, and trait anxiety scores	No severe adverse effects were reported	***
Alzheimer's disease ^{10, 11}	1 capsule/day	A significant difference in the change in total postgraduate institute (PGI) memory scale in the <i>Bacopa monnieri</i> extracttreated patients when compared to Donepezil-treated individuals.	Randomized, double-blind, parallel-group, phase-2 single-centre study. n = 48; 300 mg/d of <i>Bacopa monnieri</i> extract for 52 weeks.	Memory Scale, Mini-Mental State Examination, Wechsler Memory Scale, Alzheimer's disease assessment scale- cognitive subscale (ADAS-Cog), postgraduate institute (PGI) memory scale	No severe adverse effects were reported (nausea, diarrhea, asthenia, arthralgia, headache, dizziness, anxiety, restlessness, insomnia, crying)	**

Continued



	2 capsules/day	Significant improvement in orientation of time, place, attention, and language component in terms of reading, writing, and comprehension; also a substantial decrease in irritability and insomnia.	Open label, prospective, uncontrolled, nonrandomized study. n = 39; 600 mg/d of <i>Bacopa monnieri</i> extract for six months.	Mini Mental State Examination Scale	No severe adverse effects were reported	**			
Parkinson's disease ¹²	1 to 2 capsules/day	Significant improvement in the emotional function after receiving the supplementation; also a substantial enhancement in the quality of life and motor outcomes.	Nonrandomized, primary, interventional, controlled, parallel, double-blind study. <i>n</i> = 20; 225 or 450 mg/d of <i>Bacopa monnieri</i> extract for 90 days.	Parkinson's Disease Quality- of-Life (PDQL) questionnaire, the Hoehn and Yahr (HY) Disability Stages Scale (Degree of Disability Scale), Unified Parkinson's Disease Rating Scale	No severe adverse effects were reported	***			
Motor speed ¹³	1 capsule/day	Significant improvement in cognitive functions after supplementation; also a substantial increase in serum calcium levels.	Randomized, double- blind, placebo-controlled, noncrossover, parallel study. n = 60; 300 mg/d of <i>Bacopa</i> monnieri extract for six weeks.	Digit Span Memory Task, Paired Associate Task, Logical Memory Test (Story Recall), Memory Span for Nonsense Syllables, Finger Tapping Test, Choice Discrimination Test	No severe adverse effects were reported	***			
Working memory ¹⁴	1 to 2 capsules/day	Significant improvement in digit- span backward test, list-learning delayed-recall test, paired- associates dissimilar delayed- recall test; also a substantial enhancement in attention and verbal memory.	Randomized, double-blind, placebo-controlled study. n = 65; 450 mg/d of <i>Bacopa</i> <i>monnieri</i> extract for 12 weeks.	Attention tests, memory verbal, speed of information processing, neuropsychological tests	No severe adverse effects were reported	***			
Emotional wellbeing ¹⁵	1 capsule/day	Significant improvement in emotional wellbeing and general health; also a substantial enhancement in pain-related symptoms. A decrease in immunoglobulin A and α-amylase was also noticed.	Randomized, double-blind, placebo-controlled study. n = 100; 300 mg/d of <i>Bacopa monnieri</i> extract for 28 days.	Bergen Insomnia Scale (primary outcome measure); Functional Outcomes of Sleep Questionnaire; Pittsburgh Sleep Diary; Short Form-36 Health Survey; and the Depression, Anxiety, and Stress Scale	No severe adverse effects were reported	**			
Anhedonia 16	2 capsules/day	Significant improvement in the Snaith-Hamilton Pleasure Scale score; also a substantial enhancement in the Hamilton depression rating scale.	Randomized, controlled study. n = 42; 600 mg/d of <i>Bacopa</i> <i>monnieri</i> extract for four weeks.	Snaith-Hamilton Pleasure Scale score, Hamilton depression rating scale	No severe adverse effects were reported	**			
Cardiovascular Health									
Vascular function ¹⁷	1 capsule/day	A marginal improvement was noticed in microvascular blood; also a substantial decrease in	Randomized, double-blind, placebo-controlled study. n = 100; 194 mg/d of Bacopa manniari outract for 12 works	Battery of memory functions, carotid blood velocity, postischemic microvascular	No severe adverse effects were reported	***			

REFERENCES

1. Downey, L.A., J. Kean, F. Nemeh, A. Lau, A. Poll, R. Gregory, M. Murray, et al. "An acute, double-blind, placebo-controlled crossover study of 320 mg and 640 mg doses of a special extract of Bacopa monnieri (CDRI 08) on sustained cognitive performance." Phytotherapy Research, Vol. 27, No. 9 (2013): 1407–1413.

monnieri extract for 12 weeks.

blood

2. Kongkeaw, C., P. Dilokthornsakul, P. Thanarangsarit, N. Limpeanchob, and C.N. Scholfield. "Meta-analysis of randomized controlled trials on cognitive effects of Bacopa monnieri extract." Journal of Ethnopharmacololgy, Vol. 151, No. 1 (2014): 528–535.

memory recall in patients aged

over 65 years.

- 3. Pase, M.P., J. Kean, J. Sarris, C. Neale, A.B. Scholey, and C. Stough. "The cognitive-enhancing effects of Bacopa monnieri: A systematic review of randomized, controlled human clinical trials." Journal of Alternative and Complementary Medicine, Vol. 18, No. 7 (2012): 647–652.
- 4. Stough, C., L.A. Downey, J. Lloyd, B. Silber, S. Redman, C. Hutchison, K. Wesnes, and P.J. Nathan. "Examining the nootropic effects of a special extract of Bacopa monniera on human cognitive functioning: 90-day double-blind placebo-controlled randomized trial." Phytotherapy Research, Vol. 22, No. 12 (2008): 1629–1634.
- Morgan, A., and J. Stevens. "Does Bacopa monnieri improve memory performance in older persons? Results of a randomized, placebo-controlled, double-blind trial." Journal of Alternative and Complementary Medicine, Vol. 16, No. 7 (2010): 753-759.
- Stough, C., J. Lloyd, J. Clarke, L.A. Downey, C.W. Hutchison, T. Rodgers, and P.J. Nathan. "The chronic effects of an extract of Bacopa monniera (Brahmi) on cognitive function in healthy human subjects." Psychopharmacology, Vol. 156, No. 4 (2001): 481-484.
 Erratum in: Psychopharmacology, Vol. 232, No. 13 (2015): 2427. Dosage error in article text.
- 7. Calabrese, C., W.L. Gregory, M. Leo, D. Kraemer, K. Bone, and B. Oken. "Effects of a standardized Bacopa monnieri extract on cognitive performance, anxiety, and depression in the elderly: A randomized, double-blind, placebo-controlled trial." Journal of Alternative and Complementary Medicine, Vol. 14, No. 6 (2008): 707–713.
- 8. Roodenrys, S., D. Booth, S. Bulzomi, A. Phipps, C. Micallef, and J. Smoker. "Chronic effects of Brahmi (Bacopa monnieri) on human memory." Neuropsychopharmacology, Vol. 27, No. 2 (2002): 279–281.
- 9. Sathyanarayanan, V., T. Thomas, S.J. Einöther, R. Dobriyal, M.K. Joshi, and S. Krishnamachari. "Brahmi for the better? New findings challenging cognition and anti-anxiety effects of Brahmi (Bacopa monniera) in healthy adults." Psychopharmacology, Vol. 227, No. 2 (2013): 299–306.
- 10. Prabhakar, S., V.Y. Vishnu, M. Modi, M. Mohanty, A. Sharma, B. Medhi, B.R. Mittal, et al. "Efficacy of Bacopa monnieri (Brahmi) and donepezil in Alzheimer's disease and mild cognitive impairment: A randomized double-blind parallel phase 2b study." Annals of the Indian Academy of Neurology, Vol. 23, No. 6 (2020): 767–773.
- 11. Goswami, S., A. Saoji, N. Kumar, V. Thawani, M. Tiwari, and M. Thawani. "Effect of Bacopa monnieri on cognitive functions in Alzheimer's disease patients." International Journal of Collaborative Research on Internal Medicine & Public Health, Vol. 3, No. 4 (2011): 285-293.
- 12. Santos, A.F.D., M.M.Q. Souza, E.C. Amaral, E.R. Albuquerque, D.S. Bortoloti, A. Gasparotto Junior, E.L.B. Lourenço, E.C.W. Lovato, and F.A.D.R. Lívero. "Bacopa monnieri in patients with Parkinson's disease: A pilot study." Journal of Medicinal Food, Vol. 26, No. 2 (2023): 114–119.
- 13. Kumar, N., L.G. Abichandani, V. Thawani, K.J. Gharpure, M.U. Naidu, and G.V. Ramana. "Efficacy of standardized extract of Bacopa monnieri (Bacognize®) on cognitive functions of medical students: A six-week, randomized placebo-controlled trial." Evidence-Based Complementary and Alternative Medicine, Vol. 2016 (2016): 4103423.
- 14. Barbhaiya, H.C., R.P. Desai, V.S. Saxena, K. Pravina, P. Wasim, P. Geetharani, J.J. Allan, K. Venkateshwarlu, and A. Amit. "Efficacy and tolerability of BacoMind® on memory improvement in elderly participants—A double blind placebo controlled study." Journal of Pharmacology and Toxicology, Vol. 3, No. 6 (2008): 425–434.
- 15. Lopresti, A.L., S.J. Smith, S. Ali, A.P. Metse, J. Kalns, and P.D. Drummond. "Effects of a Bacopa monnieri extract (Bacognize®) on stress, fatigue, quality of life and sleep in adults with self-reported poor sleep: A randomised, double-blind, placebo-controlled study." Journal of Functional Foods, Vol. 85 (2021): 104671.
- 16. Micheli, L., S. Spitoni, L. Di Cesare Mannelli, A.R. Bilia, C. Ghelardini, and S. Pallanti. "Bacopa monnieri as augmentation therapy in the treatment of anhedonia, preclinical and clinical evaluation." Phytotherapy Research, Vol. 34, No. 9 (2020): 2331–2340.
- 17. Kamkaew, N., K. Ingkaninan, N. Waranuch, W. Kaewmahanin, C. Wasuntarawat, O. Khongsombat, P. Thiarawat, et al. "Efficacy of Bacopa monnieri on memory and vascular functions: A randomised controlled trial." 2022 preprint (not peer-reviewed by a journal).