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VEPACHEDU EDUCATIONAL FOUNDATION

The Telangana Science Journal

Health and Nutrition

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Chief Editor: Dr. Sreenivasarao Vepachedu⁽¹⁾

Issue 213: Contents

ASPIRIN
SOY
LOW BACK PAIN

ASPIRIN

The word “aspirin” is a derivative of Spiraea, a biological genus of plants that includes natural sources of the drug's key ingredient, salicylic acid, found in jasmine, beans, peas, clover and certain grasses and trees.

As far back as 1500 B.C., people were aware of the medicinal properties of the willow bark. During the time of Hippocrates (400 BC), people were advised to chew on the bark to reduce fever and inflammation. Willow bark has been used throughout the centuries in China and Europe, and continues to be used today for the treatment of pain (particularly low back pain and osteoarthritis), headache, and inflammatory conditions, such as bursitis and tendinitis⁽²⁾.



The willow family includes a number of different species of trees and shrubs native to Europe, Asia, and some parts of North America. Some of the more commonly known species are white willow/European willow (*Salix alba*), black willow/pussy willow (*Salix nigra*), crack willow (*Salix fragilis*), purple willow (*Salix purpurea*), and weeping willow

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
	1937 Salivahana Era, MANMADHA Year, BHADRAPADA Month
	2015 AD, SEPTEMBER
	(Published online OCTOBER 1, 2015)



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Vegetarian Links	Disclaimer	Solicitation	Contact	VPC	Vedah-net

(*Salix babylonica*). The bark is used for pain, including headache, muscle pain, menstrual cramps, rheumatoid arthritis (RA), osteoarthritis, gout, and ankylosing spondylitis.

In the 1800s, scientists figured out which part of that plant was doing the healing. In 1853, chemist Charles Frédéric Gerhardt treated acetyl chloride with sodium salicylate to produce acetylsalicylic acid for the first time⁽³⁾.

Aspirin is linked to Reye syndrome, a serious condition with symptoms like vomiting, confusion, and being over-stimulated. It causes swelling in the brain and liver and may lead to a coma. Because of the danger of developing Reye syndrome (a rare but serious illness associated with the use of aspirin in children), children under the age of 18 should not take willow bark or aspirin. Therefore, for moms-to-be, acetaminophen is a better choice for pain relief. High doses of aspirin can cause tinnitus. The ringing should go away once you stop taking it.

A Dundee physician, Thomas Maclagan, used salicin to treat patients who had rheumatism, and he reported its beneficial effects in *The Lancet* in 1876⁽⁴⁾. Aspirin's effects on blood clotting were observed in 1950 by Lawrence Craven⁽⁵⁾. Craven thought it could prevent blood clots in arteries that caused heart attacks. So he started prescribing an aspirin a day to thousands of men at high risk of heart attack. Half of Americans of age 45-75 take aspirin to help prevent a heart attack. Then in the 1960s, John O'Brien, a hematologist in Portsmouth, England, arrived at the same conclusion. That convinced Peter Elwood from the UK Medical Research Council to start a randomized controlled trial. The first men enrolled in 1970⁽⁶⁾. *Lancet*⁽⁷⁾ recently reported that a daily aspirin appeared to lower the risk of cancer by at least 20% during a 20-year period.

Aspirin can be good medicine for plants, too. A solution of one and a half tablets in 2 gallons of water sprayed on your garden every 3 weeks can give you more and bigger veggies. The key ingredient, salicylic acid, bumps up plant growth and helps protect them from disease. Other reported fixes with aspirin include making a paste for acne or bee stings, protecting your hair from chlorine, boosting your car battery, although there is no science to back them up.

One large study found that most drugs are still OK up to 15 years after they're made. Manufacturers are required by law to give an expiration date: It's their suggestion for when you should use the medicine for the best results.

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
	1937 Salivahana Era, MANMADHA Year, BHADRAPADA Month
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Vegetarian Links	Disclaimer	Solicitation	Contact	VPC	Vedab-net

Homeopathy has designated symptoms and activity on sexual organs as a sex tonic. This herb is available in the North America. It works effectively both in male and females. In women just before and during menses there is certainly much stress and anxiety along with pain in ovaries. The specific indication of Salix Nigra is nocturnal emissions, sexual erythrim, cystitis, libidinous thoughts, erotomania and satyriasis, urethral irritation, lascivious dreams etc.⁽⁸⁾

SOY

(Continuation of Myths and Men, Issue 212)

In the past few decades, diet and dietary components have been regarded as important strategies to prevent the development or mitigate numerous chronic diseases, including inflammation, cardiovascular pathologies, cancer, etc. Noteworthy in this regard is the health claim for soy foods and coronary heart disease awarded by the U.S. Food and Drug Administration in 1999 on the basis of the cholesterol-lowering properties of soy protein⁽⁹⁾.

Isoflavones are diphenolic compounds that bind to estrogen receptors and exert some estrogen-like effects under certain experimental conditions; for this reason they are classified as phytoestrogens. The two primary isoflavones in soybeans are genistein and daidzein. However, neither soy protein nor isoflavones affect reproductive hormone concentrations in men regardless of age or cancer status. Consumption of soy foods or isoflavone supplements would not result in the adverse effects associated with lower T levels. Further studies in men consuming soyfoods or supplements containing 40-70 mg/d of soy isoflavones do not support concerns about effects on reproductive hormones and semen quality⁽¹⁰⁾.

Soy foods have played an important role in the diets of many East Asian countries for centuries. One of the most common dietary components of Asian population (about 2 billion out of 7 billion, i.e., about 28% of humanity) is soy and its derivatives such as tofu. Tofu is made from soybeans, water and a coagulant, or curdling agent. It is high in protein and calcium and well known for its ability to absorb new flavors through spices and marinades. A plethora of research shows the promising effect of soy soy-based foodstuffs and genistein, which is one of the predominant isoflavone compounds, in the prevention and mitigation of stroke. Growing evidence shows that genistein, which is a selective estrogen receptor modulator, mitigates ischemic stroke-induced damages through the modification of oxidative stress and molecular pathways. The promising pharmacological role of genistein is attributed to its ability to suppress nuclear factor (NF)-kappa B and Akt signaling pathway, direct antioxidant action, and targeting

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
	1937 Salivahana Era, MANMADHA Year, BHADRAPADA Month
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Home	The Foundation	Management	The Andhra Journal of Industrial News	The Telangana Science Journal	Mana Sanskriti (Our Culture)
Vegetarian Links	Disclaimer	Solicitation	Contact	VPC	Vedah-net

estrogen and androgen-mediated molecular pathways which help to mitigate stroke damages and prolong cell survival. Dietary intake of soy has been associated with a decreased risk of cancer. Soy isoflavones have been postulated to be the protective compounds in soybeans; however, the precise mechanism by which soy isoflavones prevent human cancer is not known. The major soy isoflavones, genistein and daidzein, are antioxidant compounds, therefore one possible mechanism of action is through their antioxidant effect⁽¹¹⁾.

While 17-beta-estradiol may stimulate bone anabolism, in part, by antagonizing TNFalpha-induced NF-kappaB activation, genistein not only fails to prevent cytokine-induced NF-kappa-B activation, but directly promotes NF-kappaB activation in MC3T3 cells, suggesting important mechanistic differences⁽¹²⁾ in the mechanisms by which 17-beta-estradiol and genistein promote osteoblast differentiation.

Genistein, but not estradiol or raloxifene, decreased the ratio of alkaline phosphatase mRNA to ectonucleotide pyrophosphatase phosphodiesterase 1 mRNA expression in osteoblasts, which may explain the lack of genistein effect on bone mineralization observed in ovariectomized rats in the in vivo study⁽¹³⁾.

Epidemiological associations suggest populations consuming substantial amounts of dietary soy exhibit a lower risk of prostate cancer⁽¹⁴⁾. Greater soy consumption was associated with a lower presence of elevated TC, dyslipidemia, hyperuricemia and less number of cardiometabolic disturbances components in women⁽¹⁵⁾.

LOW BACK PAIN

Exercises for lower back pain strengthen back, stomach, and leg muscles. They help support the spine, relieving back pain. Depending on the cause and intensity of the pain, some exercises may not be recommended and can be harmful aggravating pain, for example, standing toe touches put stress on the disks and ligaments in the spine and can overstretch lower back muscles and hamstrings. Sit-ups may also put a lot of pressure on the discs in your spine. Lifting both legs together while lying on the back is very demanding on your core, but it can make back pain worse.

Consult with a health care professional before doing any exercise for back pain. The following may help strengthen back and stomach muscles:

- Partial crunches
- Hamstring Stretches
- Wall Sits
- Press-up Back Extensions
- Bird Dog
- Knee to Chest
- Pelvic Tilts

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
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The Telangana Science Journal

Health and Nutrition

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Home	The Foundation	Management	The Andhra Journal of Industrial News	The Telangana Science Journal	Mana Sanskriti (Our Culture)
Vegetarian Links	Disclaimer	Solicitation	Contact	VPC	Vedih-net

Bridging
Lifting Weights
Aerobic Exercise
Pilates, Yoga, Taichi

Chiropractic's signature treatment, spinal manipulation, may help relieve back pain. The National Center for Complementary and Alternative Medicine⁽¹⁶⁾ reports that spinal manipulation "appears to be as effective as conventional treatments."

Yoga, Pilates and Tai Chi may help with back pain. Tai chi is a series of gentle, flowing movements that aim to improve muscle power, balance, posture and flexibility. Tai chi was associated with an improvement in pain and stiffness in osteoarthritis.

REFERENCES AND NOTES:

(1). Dr. Rao Vepachedu is the Managing Director at Cardinal Risk Management and a registered patent attorney with extensive experience in the management of intellectual property and extensive experience in research and teaching. He currently works for Cardinal Intellectual Property (CIP), Cardinal Risk Management (CRM), and Cardinal Law Group (CLG). In addition, he is the president of Vepachedu Educational Foundation Inc. (www.vepachedu.org), a 501(c) (3) educational foundation. For more information visit: www.linkedin.com/in/vepachedu; <http://www.avvo.com/attorneys/60201-il-sreenivasarao-vepachedu-764535.html>, and <http://www.crm-ip.com/vepachedu.html>; Contact: vepachedu@yahoo.com or rao.vepachedu@cardinal-ip.com www.linkedin.com/in/vepachedu and <http://www.crm-ip.com/vepachedu.html>;



<http://www.avvo.com/profile/dashboard>

- (2) Willow bark: <https://umm.edu/health/medical/altmed/herb/willow-bark>
- (3) Gerhardt, Recherches sur les acides organiques anhydrides, Annales de Chimie et de Physique, 37: 285-342 (1853) <https://books.google.com/books?id=V5o5AAAAcAAJ&pg=PA285#v=onepage&q&f=false>
- (4) MacLagan, The treatment of acute rheumatism by salicin and salicylic acid. Lancet, 1:342-4 (1876); <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2296287/>
- (5) Miner, The Discovery of Aspirin's Antithrombotic Effects, Texas Heart Institute Journal, 34(2), 179-186 (2007); <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1894700/>; <http://phs.pusdk12.org/subsites/Rachel-Kagan/documents/Intro%20Bio%20%20Sci%20Method/Dr.%20Craven.pdf>
- (6) Bastian, Is a Baby Aspirin a Day the New Apple? (August 17, 2014) <http://blogs.plos.org/absolutely-maybe/2014/08/17/is-a-baby-aspirin-a-day-the-new-apple/>
- (7) Landau, From a tree, a 'miracle' called aspirin, CNN (2010); <http://www.cnn.com/2010/HEALTH/12/22/aspirin.history/>
- The Wonder Drug in Your Medicine Cabinet: http://www.webmd.com/heart/rm-quiz-aspirin?ecd=wnl_wmh_090415&ctr=wnl_wmh_090415_nsl-ld-stry&mb=s10u26bW4bX4A6f2oTmCO%40HnVev1mbCifxQ3xyXZ4k%3d
- (8) Homeopathy, Key Symptoms and Uses of Salix Nigra: <http://adrenalinum200.blogspot.com/2013/06/key-symptoms-and-uses-of-salix-nigra.html>
- (9) Food labeling: health claims; soy protein and coronary heart disease. Fed Regist 1999;64:57699-733.
- (10) Neither soy protein nor isoflavones affect reproductive hormone concentrations in men regardless of age or cancer status: Hamilton-Reeves et al., Clinical studies show no effects of soy protein or isoflavones on reproductive hormones in men: results of a meta-analysis, Fertility and sterility Vol. 94, No. 3, (August 2010); <http://www.fertstert.org/article/S0015-0282%2809%2900966-2/abstract>
- Further studies in men consuming soyfoods or supplements containing 40-70 mg/d of soy isoflavones do not support concerns about effects on reproductive hormones and semen quality: Kruzer, Hormonal effects of soy in premenopausal women and men. J Nutr. 132(3):570S-573S (2002); <http://jn.nutrition.org/content/132/3/570S.full.pdf+html>
- Data suggest that relatively large amounts of soy protein or soy-derived isoflavones had modest and limited sex-specific effects on circulating hormone levels: Goldin et al., Hormonal response to diets high in soy or animal protein without and with isoflavones in moderately hypercholesterolemic subjects, Nutr Cancer. 51(1):1-6 (2005); <http://www.ncbi.nlm.nih.gov/pubmed/15749623>
- Fritz et al., Dietary diethylstilbestrol but not genistein adversely affects rat testicular development, J Nutr. 2003 Jul;133(7):2287-93; <http://jn.nutrition.org/content/133/7/2287.full.pdf+html>
- Soy isoflavones are classified as phytoestrogens. They have been suggested to modulate endogenous hormone homeostasis because their phenolic ring structures resemble estradiol and can bind to estrogen receptors, acting as either an estrogen agonist or an antagonist. Soy isoflavones and curcumin activate the DDR, providing an opportunity and rationale for the clinical application of these nutraceuticals in the chemoprevention of prostate cancer: Chemoprevention of prostate cancer: soy isoflavones and curcumin. Korean J Urol. 53(10):665-72 (2012); <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3490085/>
- With age, there is certainly a decrease in hormone levels. Androgens may play an important role in the regulation of bone formation in men: Banu, Causes, consequences, and treatment of osteoporosis in men, Drug Des Devel Ther. 7: 849-860 (2013); <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3758213/>
- (11) Davis et al., Soy isoflavone supplementation in healthy men prevents NF-kappa B activation by TNF-alpha in blood lymphocytes, Free Radic Biol Med. 30(11):1293-302 (2001); <http://www.ncbi.nlm.nih.gov/pubmed/11368927>

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
	1937 Salivahana Era, MANMADHA Year, BHADRAPADA Month
	2015 AD, SEPTEMBER
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Vegetarian Links	Disclaimer	Solicitation	Contact	VPC	Vedab-net

Davis et al., Genistein inhibits NF-kappa B activation in prostate cancer cells, *Nutr Cancer*. 35(2):167-74 (1999); <http://www.ncbi.nlm.nih.gov/pubmed/10693171>

Nabavi et al., Genistein: A Boon for Mitigating Ischemic Stroke, *Curr Top Med Chem*;15(17):1714-21 (2015). <http://www.ncbi.nlm.nih.gov/pubmed/25915610>

Karsli-Ceppiglu et al., The Role of Soy Phytoestrogens on Genetic and Epigenetic Mechanisms of Prostate Cancer. *Enzymes*. 37:193-221 (2015); <http://www.ncbi.nlm.nih.gov/pubmed/26298461>

Ganai et al., Genistein modulates the expression of NF-kB and MAPK (p-38 and ERK1/2), thereby attenuating d-Galactosamine induced fulminant hepatic failure in Wistar rats, *Toxicol Appl Pharmacol*. 1:283(2):139-46 (2015); <http://www.ncbi.nlm.nih.gov/pubmed/25620059>

Spagnuolo et al., Genistein and Cancer: Current Status, Challenges, and Future Directions. *Adv Nutr*. 6(4):408-19 (2015 Jul 15); <http://www.ncbi.nlm.nih.gov/pubmed/26178025>

Pawlowski et al., Impact of equol-producing capacity and soy-isoflavone profiles of supplements on bone calcium retention in postmenopausal women: a randomized crossover trial. *Am J Clin Nutr*. 102(3):695-703 (2015)

Bryn et al., Anti-inflammatory effect of gamma-irradiated genistein through inhibition of NF-kB and MAPK signaling pathway in lipopolysaccharide-induced macrophages, *Food Chem Toxicol*; 74:255-64.(2014) <http://www.ncbi.nlm.nih.gov/pubmed/25447760>

Saleh et al., Thioacetamide-induced liver injury: protective role of genistein, *Can J Physiol Pharmacol*; 92(11):965-73 (2014); <http://www.ncbi.nlm.nih.gov/pubmed/25358106>

Lao et al., Apoptotic effect of genistein on human colon cancer cells via inhibiting the nuclear factor-kappa B (NF-kB) pathway, *Tumour Biol*; 35(11):11483-8 (2014); <http://www.ncbi.nlm.nih.gov/pubmed/25128065>

Li et al., Genistein suppresses tumor necrosis factor α -induced inflammation via modulating reactive oxygen species/Akt/nuclear factor κ B and adenosine monophosphate-activated protein kinase signal pathways in human synovioyte MH7A cells; *Drug Des Devel Ther*.17:8:315-23 (2014); <http://www.ncbi.nlm.nih.gov/pubmed/24669186>

Jeong et al., Anti-inflammatory effects of genistein via suppression of the toll-like receptor 4-mediated signaling pathway in lipopolysaccharide-stimulated BV2 microglia, *Chem Biol Interact*. 5:212:30-9 (2014); <http://www.ncbi.nlm.nih.gov/pubmed/24491678>

Hirasaki et al., Isoflavones derived from soy beans prevent MuRF1-mediated muscle atrophy in C2C12 myotubes through SIRT1 activation, *J Nutr Sci Vitaminol (Tokyo)*.59(4):317-24 (2013); <http://www.ncbi.nlm.nih.gov/pubmed/24064732>

Hsu et al., Differential effects of whole soy extract and soy isoflavones on apoptosis in prostate cancer cells, *Exp Biol Med (Maywood)*. 235(1):90-7 (2010); <http://www.ncbi.nlm.nih.gov/pubmed/20404023>

Singh-Gupta et al., Radiation-induced HIF-1 α cell survival pathway is inhibited by soy isoflavones in prostate cancer cells, *Int J Cancer*. 124(7):1675-84 (2009)

Wang et al., Genistein inhibits the development of atherosclerosis via inhibiting NF-kappaB and VCAM-1 expression in LDLR knockout mice, *Can J Physiol Pharmacol*. 86(11):777-84 (2008)

Banerjee et al., Multi-targeted therapy of cancer by genistein, *Cancer Lett*. 269(2):226-42 (2008)

Dijsselbloem et al., A critical role for p53 in the control of NF-kappaB-dependent gene expression in TLR4-stimulated dendritic cells exposed to Genistein, *J Immunol*;178(8):5048-57 (2007 Apr 15)

Borrás et al., Genistein, a soy isoflavone, up-regulates expression of antioxidant genes: involvement of estrogen receptors, ERK1/2, and NFkappaB, *FASEB J*. 20(12):2136-8 (2006)

Barve et al., Synthesis, molecular characterization, and biological activity of novel synthetic derivatives of chromen-4-one in human cancer cells. *J Med Chem*. 49(13):3800-8 (2006 June 29)

Vanden Berghe et al., Attenuation of mitogen- and stress-activated protein kinase-1-driven nuclear factor-kappaB gene expression by soy isoflavones does not require estrogenic activity. *Cancer Res*. 66(9):4852-62 (2006 May 1)

Raffoul et al., Genistein inhibits radiation-induced activation of NF-kappaB in prostate cancer cells promoting apoptosis and G2/M cell cycle arrest. *BMC Cancer*. 6:107 (2006 Apr 26)

Mohammad et al., Cisplatin-induced antitumor activity is potentiated by the soy isoflavone genistein in BxPC-3 pancreatic tumor xenografts. *Cancer*. 106(6):1260-8 (2006 March 15)

Singh et al., Soy phytochemicals prevent orthotopic growth and metastasis of bladder cancer in mice by alterations of cancer cell proliferation and apoptosis and tumor angiogenesis. *Cancer Res*. 66(3):1851-8 (2006 Feb 1)

Wang et al., Inhibition of nuclear factor kappaB activity by genistein is mediated via Notch-1 signaling pathway in pancreatic cancer cells. *Int J Cancer*. 118(8):1930-6 (2006 Apr 15)

Valachovicova et al., Soy isoflavones suppress invasiveness of breast cancer cells by the inhibition of NF-kappaB/AP-1-dependent and -independent pathways. *Int J Oncol*. 25(5):1389-95 (2004)

Dijsselbloem et al., Soy isoflavone phyto-pharmaceuticals in interleukin-6 affections. Multi-purpose nutraceuticals at the crossroad of hormone replacement, anti-cancer and anti-inflammatory therapy. *Biochem Pharmacol*. 68(6):1171-85 (2004 September 15)

Sarkar et al., Soy isoflavones and cancer prevention. *Cancer Invest*. 21(5):744-57 (2003)

(12) Yamaguchi et al., The estrogen 17beta-estradiol and phytoestrogen genistein mediate differential effects on osteoblastic NF-kappaB activity, *Int J Mol Med*. 23(2):297-301 (2/2009)

(13) Sliwinski et al., A comparative study of the effects of genistein, estradiol and raloxifene on the murine skeletal system, *Vol. 56 No. 261-270 (2/2009)*.

Sukalingam et al., An insight into the harmful effects of soy protein: A review, *Clin Ter.166(3):131-9 (2015)*; http://www.seu-roma.it/riviste/clinica_terapeutica/apps/autos.php?id=1461

(14) Ahn-Jarvis et al., Isoflavone pharmacokinetics and metabolism after consumption of a standardized soy and soy-almond bread in men with asymptomatic prostate cancer. *Cancer Prev Res (Phila)*; (2015 Aug 14); Manuscript Published OnlineFirst on August 14, 2015; <http://cancerpreventionresearch.aacrjournals.org/content/early/2015/08/13/1940-6207.CAPR-14-0465.long>

(15) Liu et al., Soy food consumption, cardiometabolic alterations and carotid intima-media thickness in Chinese adults. *Nutr Metab Cardiovasc Dis*. 24(10):1097-104 (2014). <http://www.ncbi.nlm.nih.gov/pubmed/24925121>

(16) Complementary and Alternative Medicine (CAM) Overview , <http://www.webmd.com/balance/what-is-alternative-medicine> ;Chiropractic Medicine: <http://www.webmd.com/balance/what-is-alternative-medicine#2>

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Om! Asatoma Sadgamaya, Tamasoma Jyotirgamaya, Mrityorma Amritamgamaya, Om Shantih, Shantih, Shantih!
(Aum! Lead the world from wrong path to the right path, from ignorance to knowledge, from mortality to immortality, and peace!)

Issue 213	5117 Kali Era, MANMADHA Year, BHADRAPADA Month
	2073 Vikramarka Era, MANMADHA Year, BHADRAPADA Month
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