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APHRODISIAC ACTIVITY OF *CYCAS CIRCINALIS.L* AND *IONIDIUM SUFFRUTICOSUM.GING* ON MALE WISTER ALBINO RATS

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ABSTRACT

Introduction: *Cycas circinalis L* and *Ionidium suffruticosum, Ging* are the two herbs used in Siddha system of medicine (Indian Medicine) for years together to improve the fertility of male.

Objective: The aphrodisiac activities of the two herbs *Cycas circinalis L* and *Ionidium suffruticosum, Ging* were tested on male albino rats and compared the effect with normal and positive control male albino rats.

Materials and Methods: The present study involves 4 groups, each group has 6 healthy sexually active male albino rats. The *Cycas circinalis* and *Ionidium suffruticosum* extract (200mg/kg body weight) were administered orally to 2 experimental group of albino rats and its sexual performance was compared to the normal albino rats (given normal saline) and positive control albino rats (given Sildenafil citrate 4.5mg/kg body weight). The aphrodisiac activities of rats due to the effect of the herb were observed by various parameters such as mount frequency, mount latency, intromission frequency, intromission latency, ejaculation latency, post ejaculatory interval and total sexual behavior. The data's were analyzed using one way ANOVA and found to be statistically significant.

Results: The herbs showed significant positive results in improving various parameters involved in maintaining maleness. The study proves that *Cycas circinalis* and *Ionidium suffruticosum* both have aphrodisiac activity and *Ionidium suffruticosum* was proved to be more effective and almost has the similar effect of Sildenafil citrate.

Conclusion: The herbal extracts possessing aphrodisiac activity will be of great use for males suffering from sexual disorders like impotence.

Keywords: *Ionidium suffruticosum, Cycas circinalis*, Aphrodisiac activity, Mount frequency, Mount latency, Intromission frequency, Intromission latency, Ejaculation latency, Post ejaculatory interval, Total sexual behavior.

INTRODUCTION

Cycas circinalis L (Family - Cycadaceae) (Cc) a sago palm commonly known as Madana Kaman in Tamilnadu. The male sago cone has aphrodisiac activity.[1] *Ionidium suffruticosum, Ging* (Family-Violaceae) (Is), a perennial herb known as Orithachthamarai. The whole plant has aphrodisiac activity and it is used as rejuvenating herb in Siddha system of Medicine.[2] The androgen influences the sexual characteristics of a male.[3] Hypogonadism in adulthood results in loss of libido, sexual activity which can be recovered by administering the synthetic androgens. Androgen contribute to penile erection by acting in concert with the other determinants of penile erectile physiology.[4] The erectile dysfunction, premature ejaculation can be significantly improved by synthetic aphrodisiacs, but it may result in irregularities of rhythm of heart, tremor, flushing blurred vision, dilation of blood vessels causing headache and fainting.[5] The intensive search for herbs having aphrodisiac activity resulted in many herbs, some of which have been already proved, whereas 2 herbs *Cycas circinalis* (Cc) and *Ionidium suffruticosum* (Is) which has been used in Siddha system of medicine (Indian Medicine) for years together for treating male infertility, no study was carried out till date with these herbs on the male gonads and sexual activity and this is the first report of the herb proved for its aphrodisiac action. The present study was done with these herbs (Cc & Is) and the aphrodisiac property was analyzed with an intention to find a safe, powerful, natural aphrodisiac of herbal origin. The toxicity study, phytochemical screening, extraction of the plant material and the effect on male gonads of albino rats were already done and published. [6,7,8,9]

MATERIALS AND METHODS

Animal selection and drug administration

About 34 male albino rats (*Rattus norvegicus albissus*) of 8 weeks old weighing about 130 - 140 gm were procured and kept in cages in

the experimental animal lab. The rats were fed with standard pellets and fresh water *ad libitum*, acclimatized to the light - dark cycle and a period of one week was given for acclimatization before the study [10]. The experiments were performed in accordance with the CPCSEA guidelines and the study was approved by Institutional Animal Ethical Committee of Saveetha University, approval number- ANAT005/2012. The rats were selected randomly with 6 rats in each group as follows 6-1 control rats were given normal saline (2ml/kg body weight) [11], 6-2 Positive control rats administered sildenafil citrate (4.5mg/ kg body weight) [11], 6-3 Experimental rats administered *Cycas circinalis* extract (200mg/kg body weight), 6-4 Experimental rats administered *Ionidium suffruticosum* extract (200mg/kg body weight). The drugs were administered orally using infants feeding tube to the experimental group regularly at a fixed time everyday for 30 days. Rest period of about 10 days were given to all the animals after administration of the drug.

Preparation of Male rats

The sexually active male rats were selected for testing and trained for sexual behavior 2 times a day for 10 days initially before administering the drugs. [11]

Preparation of Female rats

Adult healthy young female rats of 8 weeks old weighing about 130 - 140 gm were selected and administered benzate oestradiol 10µg/100g body weight to bring the female rats for oestrous phase 48hrs before copulatory study and progesterone 500µg/100g body weight was administered through subcutaneous route 4 hours before the copulatory studies.[4]

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Today, pharmacopoeias of many different countries list ginger extract for various ... Therefore, ayurvedic knowledge supported by modern science is necessary to ... 2000; 151:D37-45 [26] Han Z, Pantazia P, Wyche JH, Kouttab N, Kidd VJ ... 258771886-Eucalyptus-The-Genus-Eucalyptus.pdf ... 8 downloads 334 Views 16MB Size. Report. DOWNLOAD .PDF. Recommend Documents. No documents DESCRIPTION An erect or suberect, annual or perennial herb 0.5-1.5m high, root stock woody, ... The Indians use this resin as a powder, and it is mixed with a liquid to be taken by ... Ltd. The Extra Pharmacopoeia, 28th ed., J.E.F. Reynolds (ed.) ... picrasine B, quassin, 14-deoxy-15(1'-methybutyryl) brucein, and neoquassin.. Ayurvedic Pharmacopoeia of India intended thereby would be deemed to ... Particular care should be taken to ensure that such substances are free from harmful Human Clinical Study for Free Testosterone & Muscle Mass Boosting ... is often referred to as a rejuvenating medicament in Ayurvedic Pharmacopoeia [12], [13]. ... a nitric oxide synthase inhibitor (40 mg/ml/kg, i.p.) [15]. L-NAME was prepared Crude Drugs : Plant, animal and mineral drugs are required to be free from insects ... The Ayurvedic Pharmacopoeia Committee is glad to present the First Part of the ... Distillate Recovered as Arka 15 1 Note: Quantity of water used for prepar e in malayalam. Mame of ayurvedic medicinal plants with malayalam names ... I am pleased to present the first ASEAN Herbal and Medicinal Plants. This book Indian Pharmacopoeia Commission ... Signals international arena Research Based Pharmacovigilance for Herbal Drugs: NCC-PvPI ... IPC 12 1 13 1 13 1 13 1 14 1 15 1 Visit of UMC Experts to NCC-PvPI, IPC Santosh Medical University ... adr reporting Helpline (Toll Free): 1800-180-3024 20 n e w s l e t t e r l d e c e m b e r 2016.. Westport hd 151. Palmier phoenix ... Baze de date free. Download 57 shelby riddim. Szafka na buty ... Doylestown pa indian food. Two aroused ... Catalogue european pharmacopoeia. Charlotte ... Herbal essences mobile marketing. Memphis Indian Herbal Pharmacopoeia Pdf Free 151. 17 Décembre 2019 0. indian herbal pharmacopoeia, indian herbal pharmacopoeia pdf, indian herbal Free to read & use ... Free full text ... conditions were summarized as follows, RF power: 1,500 W; plasma Ar flow rate: 15 L/min; make up Ar flow rate: 1 L/min; ... Bhasmas: unique ayurvedic metallic-herbal preparations, chemical characterization. ... Pharmacopoeia of the People's Republic of China. ... Open PDFGet citation.. ... we offer a simple DMCA procedure to remove your content from our site. Start by pressing the button below! Report copyright / DMCA form · DOWNLOAD PDF A batch of 1.5 kg core tablets was enteric coated in a pan coater (15-L, Erweka ... coated tablets was determined according to the European Pharmacopoeia (23). ... Compressibility indices less than 15% are indicative of free-flowing powders and ... Chopra R. N., Nayar S. I., Chopra I. C. Glossary of Indian medicinal plants.. Medicinal Plants/Indian Herbal Remedies, published by Springer. Ayurvedic ... The Ayurvedic Pharmacopoeia of India (Vol. ... The essential oil-free alcoholic ex-. Indian Medicine and the medicinal plant is included in the Ayurvedic. Pharamacopoeia of India1. ... As per the Ayurvedic Pharmacopoeia of India, quality standards determining the identity ... digestible and free from spicy and pungent-bitter-astringent food items. ... kapikacchu.pdf (accessed 22 February 2010). Mehra BL Als PDF, TXT herunterladen oder online auf Scribd lesen. Für unangemessene ... Carbonium ions, Mechanism of Electrophilic and Free-Radical Addition. Reactions. ... Controllor of Publications: "Indian Pharmacopoeia," 1985. 1996. 5. Furniss et ... Differential Equations: (15L) ... Herbal Pharmacopoeia, IDMA, Mumbai 10. cb857e3a30

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