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# ANALYTICAL STUDY OF THE SIGNIFICANCE OF ACORUS CALAMUS L IN FOLK MEDICINE

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### Abstract

In the article *Acorus calamus* L. people treatment and scientific in medicine application according to information analysis *Acorus calamus* L medicinal fire there are many diseases, including neurological, gastrointestinal, respiratory intake, metabolic, kidney and liver diseases treatment for is used. In this review *Acorus calamus* L of in medicine various diseases in treatment participation about concept will be given.

**Keywords:** *Acorus calamus* L, diabetes, rhizome, folk medicine, modern medicine.

### Introduction

World on a scale metabolic diseases , including diabetes and heartbeat vein from diseases suffering smoking the number of patients is increasing rapidly increase is going In 2016 , 650 million adults obesity detected if and this by 2030 as a result to 23.6 million close person, heart and blood vein from diseases death verb guess is being done [1]. Metabolic diseases obesity , hypertension, hyperglycemia and hyperlipidemia with It is described and heartbeat vein and neurological diseases danger reinforcement possible .

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Wrong food , life type liver oily hepatitis , atherosclerosis, diabetes and obesity like of diseases to the development take These diseases come in treatment Acorus calamus L and his/her structural parts separately place occupies .

People in treatment importance : From ancient times people Acorus calamus L root medicine characteristics for wide used by . Acorus calamus L urine driving It is released in the liver obstacles open , wind , see activity improves paralysis Heals . Blood veins traffic jams opens , in the spleen hardness softens . Acorus calamus L not boiled side and chest the pains weakens the stomach cleanses the intestines and uterus their pains relieves . Acorus calamus L rhizomes of the facial nerve to paralysis help gives memory improves and consciousness bright does Also , waist the pain softens and in the heart in pain help gives [4]. Plant root chronic cough for is useful . His dry roots hundreds years during throat inflammation treatment for consumption done In cough , throat cleaning him/her raw or fried in case use possible [3]. Rhizome juice throat pain , gout , epilepsy , cold , cough treatment for very effective [2]. Acorus calamus L. numerous medicine in goals is used . Modern people in treatment plant tea tonic as , intestine diseases and dysentery in treatment is used . Flu and plague like in diseases his/her roots chewing recommendation will be done . Purulent wounds washing for plant root of infusion or not boiled is used . Plant roots chewing and his/her not boiled with the mouth rinse property in diseases is useful [ 4]. China and India people in treatment plant very wide applied is spiritual diseases , memory loss , fear like in treatment is used . From this except , he is the head pain , migraine effective in treatment used [5; 6].

Rheumatism , rheumatic fever and inflamed in the joints applicable plant paste pain and swelling relieves . Rhizome flatulence , appetite loss , in the abdomen

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pains , food digestion to do diseases for effective of the root shell snake sting treatment for antidote as is used [7]. Warm salty water with given plant powder vomiting bringing will release and phlegm loses , cough and asthma relieves . From this besides , he's a baby fever , cough , bronchitis and in asthma application about message given [3]. Plant powder epilepsy and fear treatment for is used . Uterus the reduction stimulation , childbirth the pain reinforcement for is used [8]. They are the heart and liver for diseases , rheumatism and eczema both is used . of rhizomes shell hemostatic is considered [9].

Modern in medicine importance : Plant modern scientific in medicine both wide *Acorus calamus* L extract Various bioactivities have been demonstrated in preclinical ( in vitro and in vivo ) and clinical studies , for example , in diabetes . against obesity against , antihypertensive , antioxidant, inflammation against , immunomodulatory, anticonvulsant , neuroprotective and other activities about information quoted .

Plant diabetes in treatment application about many There is evidence . *Acorus calamus* L ethyl acetate faction antidiabetic effect streptozotocin in an induced diabetes model evaluated . to glucagon similar peptide-1, insulin, glucose content and this gene expression of proteins rated *Acorus calamus* L extract at 100 mg/kg to indicators effective impact verb was determined [10]. *Acorus calamus* L root extracts insulin activation of  $\alpha$  - glucosidase inhibition through blood glucose concentration reduces [10]. Insulin sensitizer from the influence except insulin to release mechanisms and  $\alpha$  - glucosidase inhibition through hypoglycemic to the effect owner to be possible and with that from food subsequent hyperglycemia and heartbeat vein complications improves [9].

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Male albino in rats since called streptozotocin (STZ) diabetes then 200 mg/kg Acorus calamus L extract for 21 days various biochemical indicators assessment through antihyperglycemic activity determination for given Results in the blood glucose amount noticeable to the extent recovery showed . 21 days from treatment then in the blood glucose , lipid indicator , glucose 6-phosphatase, fructose 1,6-bisphosphatase and liver enzymes activity diabetic group with in comparison decrease was determined . Diabetic group with in comparison in the blood insulin , tissue glycogen amount of glucose-6-phosphate dehydrogenase activity increased . Stomach under gland histopathological inspections formerly by STZ to necrosis encountered extract with in comparison Acorus calamus L extract reception did in rats regeneration showed [10].

### Conclusion

In vitro and in vivo and clinical evidence that shows that Acorus calamus L. various diseases in treatment potential role their one how many active associations to the class wealth with related to be possible . Strong bioactivity expression for responsible was roots and on the leaves exists was main compounds include  $\alpha$ - azaron ,  $\beta$ - azaron , eugenol , calamine and other associations enters Quoted information of the plant bioactive of associations strong source that it is showed . So , this one plant structural parts of various for the sick the effect to study according to research continue to be carried necessary.

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