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Review Article.....!!!

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NATURAL GIFTS FOR TREATING ANXIETY

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ABSTRACT

Anxiety is a state of psychological, physiological, and behavioral distress which interferes with normal life. Disorganised lifestyles, hectic schedules, social and occupational impairment make lives more prone to these mental problems. Among all these mental disorders anxiety disorder is the most prevalent one affecting approximately 10- 30% of the general population. When the anxiety lasts far beyond the presence of the threat, then this may impair normal functioning and become an anxiety disorder. Individuals with anxiety disorders develop cardiovascular, cerebrovascular, gastrointestinal, and respiratory disorders at a significantly higher rate than the general population. An anxiety state is associated with multiple regions of the brain and abnormal neurotransmitter in several systems, norepnephrine (NE), GABA, dopamine and serotonin. In the market there are so many of anti-anxiety drugs but all of them possess many side- effects. Therefore, ayurveda is the alternate for that. Ayurveda have many medicinal plants and herbs possessing anti-anxiety activity and the side-effects are nil. We can cerebrate it as blessing of nature for human kinds. Thus, in this review article we tried to summarize the plants and herbs evidencing anti-anxiety activities.

INTRODUCTION

In the era of 21st century, the cases of mental disorders such anxiety, depression, bipolar disorder, mania, schizophrenia and obsessive compulsive disorder etc have been increases day by day. Disorganised lifestyles, hectic schedules, social and occupational impairment make lives more prone to these mental problems. Among all these mental disorders anxiety disorder is the most prevalent one affecting approximately 10- 30% of the general population. Anxiety is a state of psychological, physiological, and behavioral distress which interferes with normal life. Common symptoms of anxiety include emotional and physical symptoms such as unrealistic fears, feeling tense, restlessness, trouble concentrating, irritability, irrational and excessive fear and worry, sweating, tachycardia, stomach upset shortness of breath, frequent urination or diarrhea, sleep disturbances (Insomnia), fatigue. When the anxiety lasts far beyond the presence of the threat, then this may impair normal functioning and become an anxiety disorder. Individuals with anxiety disorders develop cardiovascular, cerebrovascular, gastrointestinal, and respiratory disorders at a significantly higher rate than the general population [1].

An anxiety state is associated with multiple regions of the brain and abnormal function in several neurotransmitter systems, including norepnephrine (NE), GABA, dopamine and serotonin. In anxiety in response to threat or fearful situations, the locus ceruleus (LC) serves as an alarm center, which activating NE release and its level, therefore stimulating the sympathetic and parasympathetic nervous systems. NE in turn increases glutamate release, this produces subjective feelings of anxiety. Decreased level of GABA and serotonin (inhibitory neurotransmitter) are found to be responsible for anxiety. Abnormalities in serotonergic functioning through release and uptake at the pre-synaptic auto receptors (5-HT_{1A/1D}), the serotonin reuptake transporter site (SERT), or effect of 5-HT at the postsynaptic receptors (e.g., 5-HT_{1A}, 5-HT_{2A}, and 5-HT_{2C}) may play a role in anxiety disorders [2].

There are different types of anxiety: i) Generalized anxiety disorder (GAD), associated with worrying excessively about health, money, family, school or work, even though there is little or nothing to provoke it. Restlessness, muscle tension, irritability, fatigue, difficulty concentration and difficulty in sleeping are the common symptoms. ii) Phobia, characterized by an intense fear of situations, usually social or performance situations, where risk of embarrassment is present. It can disrupt normal life, interfering with school, work or social relationships. Physical symptoms of social phobia often accompany the anxious feelings and include blushing, profuse sweating, trembling, nausea, shortness of breath, racing heart and difficulty talking. Whereas some of the

more common specific phobias are centered on closed places, heights, escalators, tunnels, water, flying, dogs, and injuries involving blood. iii) Panic disorder, experiences sudden episodes of intense fear that occur without any warning or apparent reason. They can't predict when an attack will occur, and many develop intense anxiety between episodes, worrying when and where the next one will occur. Symptoms include dizziness, racing heart, perspiring, shortness of breath, tingling hands, fear of dying or "going crazy." Attacks usually last no more than about 10 minutes. iv) Post-traumatic stress disorder (PTSD), can develop following a terrifying event that a person experienced or witnessed. Whatever the source of the problem, some people with PTSD repeatedly relieve the trauma in the form of nightmares and disturbing memories during the day. Ordinary events can trigger flashbacks or intrusive images. v) Obsessive compulsive disorder (OCD) is characterized by persistent thoughts (obsessions), which are ego-dystonic and associated with seemingly purposeful behaviour (compulsions) [1], [2].

There are several anti-anxiety medicines in the market such as benzodiazepine, buspirone, beta blockers, tricyclic antidepressants and selective serotonin reuptake inhibitors etc. but the drawback of these drugs is there side effects such as ataxia, confusion, dependence, tolerance, withdrawal symptoms, weight gain, sexual dysfunction, dry mouth, and hypotension etc. If we have to use these medicines, then it is difficult to avoid these unwanted side-effects, so only the alternate we have, is ayurveda. Ayurveda have many medicinal plants and herbs possessing anti-anxiety activity and the side-effects are nil. We can cerebrate it as blessing of nature for human kinds. Thus, in this review article we tried to summarize the plants and herbs evidencing anti-anxiety activities.

PLANTS HAVING ANTI-ANXIETY ACTIVITY [1-3]

Ayurveda is the ancient system of medicines contains herbal plants; vouch for treatment of many disease or disorders. But now there are many documented evidence of many herbal plants having anti-anxiety activity. The anti-anxiety activity is due to phytoconstituents such as alkaloids (erysodine, erysothrine, gelsemine, koumine, gelsevirine, gelsenicine, magnoflorine, piplartine, sanjoinine a), glycosides (cardiospermin, hypericin, triterpenoids: galphimine A, galphimine B and α , β -amyrin), flavonoids (quercetin, kaempferol, apigenin, luteolin, chrysin, 5,7-dihydroxy-8-methoxyflavone or wogonin, bacicalin), coumarins (imperatorin and isoimperatorin, sterol- β -sitosterol), lignin (honokiol, magnolol, obovatol), fatty acids (trideca-7,9,11-trienoic acid), ginkgolic acids (6-alkylsalicylates (n-tridecyl-, n-pentadecyl-, n-heptadecyl-, n- pentadecenyl- and n-heptadecenylsalicylates), terpene (linalool, organic compounds: cinnamic acid, p-coumaric acid,

caffeic acid, ferulic acid, sinapic acids). The herbal plants are administered either in the form of extracts or as active principles (isolated or evaluated).

Table1: Plants having anti-anxiety activity [1-60]

Plants
Abies pindrow
Family: Pinaceae
Common name: Pindrow fir
Achiellea millefolium
Family: Asteraceae
Common name: Yarrow
Aegle marmelos
Family: Rutaceae
Common name: Bael
Aethusa cynapium
Family: Apiaceae
Common name: Poison parsley
Alangium ssalvifolium
Family: Alangiaceae
Common name: Ankol
Albizia julibrissin
Family: Fabaceae
Common name: Pink silk tree
Albizzia lebbeck
Family: Mimosaceae
Common name: Lebbeck
Allium ascalonium
Family: Liliaceae
Common name: Shallot
Aloysia polystachya
Family: Verbenaceae
Common name: Burrito
Alternanthra brasiliana
Family: Amaranthaceae
Common name: Joyweed
Angelica sinensis
Family: Apiaceae
Common name: Female ginseng
Aniba riparia
Family: Lauraceae
Common name: Nees
Annona cherimola
Family: Annonaceae
Common name: Custard apple
Apocynum venetum
Family: Apocynaceae
Common name: Luobuma
Azadirachta indica
Family: Meliaceae

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31. Citrus paradise Family: Rutaceae Common name: Grapefruit	30.	
31. Citrus paradise Family: Rutaceae Common name: Grapefruit		
Family: Rutaceae Common name: Grapefruit		
Common name: Grapefruit	31.	
32. Citrus sinensis		
	32.	Citrus sinensis

	Family: Rutaceae
	Common name: Orange
33.	-
33.	Clinopodium mexicanum Family: Lamiaceae
	Common name: Yerba Buena
34.	Clitoria ternatea
34.	
	Family: Fabaceae Common name: Butterfly pea
25	Colocasia esculenta
35.	Family: Araceae
	Common name: Taro
26	
36.	Coptis chinensis
	Family: Ranunculaceae
25	Common name: Chinese goldthread Coriandrum sativum
37.	
	Family: Apiaceae Common name: Cilantro
38.	
38.	Crataegus oxycantha
	Family: Rosaceae Common name: Hawthron
39.	
39.	Crinum giganteum
	Family: Amaryllidaceae
40	Common name: Giant Himalayan lily
40.	Cuminum cyminum
	Family: Apiaceae
41	Common name: Cumin
41.	Cymbopogon citratus
	Family: Poaceae
42.	Common name: Lemon grass Davilla rugosa
42.	Family: Dilleniaceae
	Common name: Cipo´-caboclo
43.	Dolichandrone falcata
43.	Family: Bignoniaceae
	Common name: Hawar
44.	
44.	Drymaria cordata
	Family: Caryophyllaceae Common name: Tropical chickweed
45.	Echium amoenum
45.	
	Family: Boraginaceae
16	Common name: Borage
46.	Erythrina velutina
	Family: Fabaceae
47	Common name: Mulungu
47.	Erythrina mulungu
	Family: Fabaceae
10	Common name: Mulungu
48.	Erythrina suberosa
	Family: Fabaceae
	Common name: Mulungu

40	E-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
49.	Eschzoltzia california
	Family: Papaveraceae
50	Common name: California poppy
50.	Euphorbia hirta
	Family: Euphorbiaceae
	Common name: Dudhani
51.	Euphorbia longana
	Family: Sapindaceae
	Common name: Longan
52.	Euphorbia neriifolia
	Family: Euphorbiaceae
	Common name: Thor
53.	Eurycoma longifolia
	Family: Simaroubaceae
	Common name: Tongkat ali
54.	Foeniculum vulgare
	Family: Umbelliferae
	Common name: Fennel
55.	Fumaria indica
	Family: Fumariaceae
	Common name: Fumitory
56.	Galphimia glauca
	Family: Malpighiaceae
	Common name: Gold shower
57.	Garcinia indica
	Family: Clusiaceae
	Common name: Kokam
58.	Gastrodia elata
	Family: Orchidaceae
	Common name: Tian ma
59.	Gelsemium elegans
	Family: Loganiaceae
	Common name: Yellow Jasmine
60.	Ginkgo biloba
	Family: Ginkgoaceae
	Common name: Maidenhair tree
61.	Glinus oppositifolius
	Family: Molluginaceae
	Common name: Jima
62.	Gynostemma pentaphyllum
	Family: Cucurbitaceae
	Common name: Poor Man's Ginseng
63.	Hydrocotyle umbellata
	Family: Araliaceae
	Common name: Dollarweed
64.	Hypericum perforatum
	Family: Hypericaceae
	Common name: Saint John's wort
65.	Ipomoea reniformis
	Family: Convolvulaceae

	Common name: Mushakparni
66.	Justicia gendarussa
	Family: Acanthaceae
	Common name: Willow Leaved Justicia
67.	Kielmeyera coriacea
	Family: Calophyllaceae
	Common name: Pau santo
68.	Leptadenia reticulate
	Family: Asclepidaceae
	Common name: Jiwanti
69.	Lonchocarpus cyanescens
	Family: Fabaceae
	Common name: Elo and anunu
70.	Magnolia dealbata
	Family: Magnoliaceae
	Common name: Cloudforest magnolia
71.	Magnolia officinalis
	Family: Magnoliaceae
	Common name: Magnolia-bark
72.	Mangifera indica
	Family: Anacardiaceae
	Common name: Mango
73.	Matricaria recutita
	Family: Asteraceae
	Common name: Chamomile
74.	Melanthera scandens
	Family: Compositae
	Common name: Sierra Leone
75.	Melissa officinalis
	Family: Lamiaceae
	Common name: Lemon balm
76.	Mercurialis annua
	Family: Euphorbiaceae
	Common name: Mercury
77.	Mimosa pudica
	Family: Fabaceae
	Common name: Shy Plant
78.	Morinda citrifolia
	Family: Rubiaceae
	Common name: Noni
79.	Nymphaea stellata
	Family: Nymphaeceae
	Common name: Blue Water Lily
80.	Ocimum sanctum
	Family: Lamiaceae
	Common name: Tulsi
81.	Oxalis corniculata
	Family: Oxalidaceae
	Common name: Yellow Woodsorrel
82.	Paeonia moutan

	Family: Paeoniaceae
	Common name: Moutan or tree peony
83.	Panax ginseng
03.	Family: Araliaceae
	Common name: Ginseng
84.	Passiflora actinia
04.	Family: Passifloraceae
	Common name: Blue Passion Flower
85.	Passiflora edulis
03.	Family: Passifloraceae
	Common name: Passion fruit
86.	Passiflora incarnata linn
	Familly: Passifloraceae
	Common name: Passion flower
87.	Piper methysticum
	Family: Piperaceae
	Common name: Kava kava
88.	Piper tuberculatum
	Family: Piperaceae
	Common name: Pimenta longa
89.	Protium heptaphyllum
	Family: Burseraceae
	Common name: Breu
90.	Punica granatum
	Family: Puniaceae
	Common name: Pomegranate
91.	Rhodiola rosea
72.	Family: Crassulaceae
	Common name: Golden root
92.	Rollinia mucosa
	Family: Annonaceae
	Common name: Biriba
93.	Rubia cordifolia
	Family: Rubiaceae
	Common name: Madder
94.	Rubus brasiliensis
	Family: Roseceae
	Common name: Amorinha
95.	Rubus fruticosus
	Family: Rosaceae
	Common name: Black Berry
96.	Salvia elegans
	Family: Lamiaceae
	Common name: Pineapple sage
97.	Salvia officinalis
	Family: Lamiaceae
	Common name: Garden sage
98.	Salvia reuterana
	Family: lamiacaea
l	Common name: Maryam goli esfahani

99.	Scutellaria baicalensis
	Family: lamicaeae
	Common name: Baikal skullcap
100.	Scutellaria Lateriflora
	Family: Lamiaceae
	Common name: Blue skullcap
101.	Securidaca longepedunculata
	Family: Polygalaceae
	Common name: Violet tree
102.	Sesamum indicum
	Family: Pedaliaceae
	Common name: Sesame
103.	Sesbania grandiflora
	Family: Fabaceae
	Common name: Humming-bird tree
104.	Siparuna guianensis
	Family: Siparunaceae
	Common name: Urcugalabili
105.	Solanum Surattense
	Family: Solanaceae
	Common name: Kantakari
106.	Sphaeranthus indicus
	Family: Compositae
	Common name: East indian globe thistle
107.	Stachys lavandulifolia
	Family: lamiaceae
	Common name: Chaie koohi
108.	Tagetes erecta
	Family: Asteraceae
	Common name: Mexican marrygold
109.	Tamarindus indica
	Family: Caesalpiniaceae
110	Common name: Tamarind
110.	Terminalia chebula
	Family: Combretaceae
111	Common name: Harra
111.	Tilia Americana
	Family: Tiliaceae
110	Common name: Basswood
112.	Tilia tomentosa Moench
	Family: malvaceae
112	Common name: Silver lime
113.	Tragia involucrate
	Family: Euphorbiaceae
114	Common name: Indian stinging nettle Tribulus terrestris
114.	
	Family: Zygophyllaceae Common name: Puncturevine
115	
115.	Turnera aphrodisiaca
	Family: Turneraceae

	Common name: Damiana
116.	Tylophora indica
	Family: Asclepiadaceae
	Common name: Ipecac
117.	Uncaria rhynchophylla
	Family: Rubiaceae
	Common name: Cat's claw
118.	Uraria picta
	Family: Fabaceae
	Common name: Dabra
119.	Urtica Urens
	Family: Urticaceae
	Common name: Dwarf Nettle
120.	Valeriana edulis
	Family: valerianaceae
	Common name: Mexican valerian
121.	Valeriana jatamansi
	Family: Valerianaceae
	Common name: Jatamasi
122.	Valeriana officinalis
	Family: Caprifoliaceae
	Common name: All-heal
123.	Verbena officinalis
	Family: Verbanaceae
	Common name: Verbena
124.	Vitex negundo
	Family: Verbanaceae
	Common name: Chestetree
125.	Withania somnifera
	Family: Solanaceae
	Common name: Ashwagandha
126.	Zingiber officinale
	Family: Zingiberaceae
	Common name: Ginger
127.	Ziziphus zizyphus
	Family: Rhamnaceae
	Common name: Chinese date

CONCLUSION

In this review we tried to summarize the herbal plants evidencing anti-anxiety activity. Yet, there are many plants, which have to revel for anti-anxiety activity. And for that, it is necessary to isolate phyto-constituents anxiolytic plants with demonstrable anxiolytic effects in animal models as well in clinical studies.

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