

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/371179457>

# EFFICACY OF CONSERVATIVE AYURVEDIC TREATMENT IN STANA GRANTHI W.S.R TO BENIGN BREAST DISEASE: A CASE STUDY

Article · May 2023

DOI: 10.20959/wjpr20239-28292

---

CITATIONS

0

READS

2,050

2 authors:



Varsha bal Krishna

Parul Group of Institutes

7 PUBLICATIONS 0 CITATIONS

[SEE PROFILE](#)

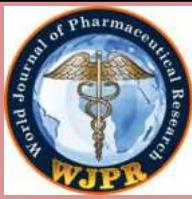


Tarun Arya

Guru Gobind Singh Indraprastha University

2 PUBLICATIONS 0 CITATIONS

[SEE PROFILE](#)



## EFFICACY OF CONSERVATIVE AYURVEDIC TREATMENT IN STANA GRANTHI W.S.R TO BENIGN BREAST DISEASE: A CASE STUDY

Dr. Varsha<sup>\*1</sup> and Dr. Tarun Arya<sup>2</sup>

<sup>1</sup>BAMS, M.S (Ayu) Prasuti Tantra Evum Stree Rog, <sup>2</sup>BAMS, MD (Ayu) Kriya Sharir,  
Mandoli Vistar-Seemapuri Seemapuri Shahdara, Delhi India. 110093.

Article Received on  
05 April 2023,

Revised on 25 Apr. 2023,  
Accepted on 15 May 2023,  
DOI: 10.20959/wjpr20239-28292

### \*Corresponding Author

Dr. Varsha

BAMS, M.S (Ayu) Prasuti Tantra Evum Stree Rog,  
Mandoli Vistar-Seemapuri Seemapuri Shahdara, Delhi  
India. 110093.

### ABSTRACT

**Introduction:** Benign breast disease (BBD) is a condition characterized by the presence of non-cancerous lumps or changes in the breast tissue. Although BBD is not life-threatening, it can cause significant discomfort and anxiety for women. *Ayurveda*, a traditional Indian system of medicine, offers various treatment options for BBD that are aimed at reducing inflammation and promoting overall breast health. **Diagnosis and intervention:** Diagnosis was made on basis of presenting symptoms and breast sonography which showed multiple fibrocystic lesions in bilateral breast (BIRADS-2). Patient was treated with oral medication only for a month after which sonography was repeated. Patient was prescribed *Kanchnaar Guggulu*, *Guggulu*

*Tikhtakashaya* and *Nimbaamritasavam* all three of these medicines are Ayurvedic preparations exhibit anti-inflammatory, antioxidant, antibacterial, immunomodulatory, antimitotic and cytotoxic effect. **Result:** After one month of treatment patient was asymptomatic and after repeating the investigation the breast tissue was found to be normal and without any fibrocystic lesions (BIRADS-1) **Conclusion:** Benign breast disease can be managed conservatively through *Ayurvedic* oral medication and *Sthanik Chikitsa* successfully. It relieves patient from the fear of surgery and may also reduce the anxiety and stigma involving breast carcinoma.

**KEYWORDS:** *Ayurveda*, Benign Breast Disease, Fibroadenosis, *Stana Granthi*.

## INTRODUCTION

More than 90% women presenting to a gynaecologist for breast issues will have benign breast disease (BBD). A heterogeneous condition consisting of a large number of pathophysiological lesions of the different components of the breast (stromal, epithelial, vascular or adipocytes). Fibroadenosis of breast is characterised by an increase in either number or size of glandular components usually involving the lobular units and is oestrogen dependent.

Despite being classified as "benign," the illnesses covered in this article can be very painful for the patient. A specialist breast clinician frequently enjoys the advantage of being able to calm patients' fears with only one visit to the breast department. To help in early identification of breast cancer and improve patient outcomes, one-stop breast clinics were created to guarantee that patients with concerning symptoms are treated right away. The majority of people with benign breast diseases can be reassured, and just a few will need surgery to help with definitive diagnosis or as a last resort when conservative measures have failed.

*Granthi* can be equated with all types of small in size glandular or nodular swelling developing mostly due to benign tumors and cysts. There is no direct reference for *Stana Granthi* in Ayurveda. But *Mamsaja Granthi* occurs in *Stana* (breast) is having close resemblance with fibroadenosis of breast.

Benign cysts are typically mobile within the glandular breast tissue, chest wall, and skin and are rubber-like in texture. Except for inflammatory type cysts, discomfort and tenderness experienced by a patient are either absent or mild. Most patients present with multiple cysts upon further clinical and diagnostic evaluation.<sup>[1]</sup>

Various subtypes of cysts are known, including hyperplastic fibrous cysts, adenosis, and papillomatosis. These types of cysts are usually found in the upper outer quadrants of the breast, as well as in the central margins. The texture upon evaluation ranges from a firm texture to multiple subcentimeter cysts.<sup>[2]</sup>

Nipple discharge is associated with ductal ectasia, intraductal papilloma, or in rare instances, carcinoma.

**Table 1: BIRADS scoring.**

| <b>BIRADS</b> | <b>Category Condition</b>                             |
|---------------|---|
| BIRADS        | 0 Incomplete assessment needs additional evaluation   |
| BIRADS        | 1 Normal  |
| BIRADS        | 2 Benign  |
| BIRADS        | 3 Probably benign (2% of fewer chances of malignancy) |
| BIRADS        | 4 Suspicious (2- 95% chances of malignancy)           |
| BIRADS        | 5 Malignant (> 95% chances of malignancy)             |

### Case Details

A 42 year old female came to Outpatient department with complaints of

1. Bilateral breast pain since 3 months
2. Swelling in right breast since 3 months
3. Generalised weakness since 1-2 months.

**Past History of Illness:** No relevant history

**Family history:** history of pulmonary carcinoma (mother and father both)

**Obstetric History:** G<sub>3</sub>P<sub>2</sub>A<sub>1</sub>L<sub>2</sub>

**G<sub>1</sub> – P<sub>1</sub>** Male child, FTND, 21 years old – alive and healthy

**G<sub>2</sub> – A<sub>1</sub>** spontaneous abortion 18 years back

**G<sub>3</sub> – P<sub>2</sub>** Male child, FTND, 13 years old – alive and healthy

### Menstrual History

1. Regularity- Regular
2. Character- Painful
3. Quality- Clots present
4. Color-Dark red color
5. Quantity- Moderate

### General Examination

|               |              |               |             |
|---------------|--------------|---------------|-------------|
| <b>Height</b> | <b>162cm</b> | <b>Weight</b> | <b>80kg</b> |
| BP            | 110/78 mmhg  | Pulse         | 92/min      |
| Temperature   | Afebrile     | Faces         | Normal      |
| Pallor        | Absent       | Icterus       | Absent      |
| Cyanosis      | Absent       | Clubbing      | Absent      |

1. **CVS-** Normal cardiac sounds, no added murmurs
2. **Respiratory-** bilateral airway entry clear
3. **CNS-** patient is conscious and oriented to person, place and time

4. **GIT**- Soft, non-tender, no organomegaly

### Local Examination

1. **Breast**- no clinically palpable lump, no lymphadenopathy
2. **P/S**- cervix parous OS, no abnormal discharges, no erosion
3. **P/V**- uterus anteverted, normal size, non-tender and freely mobile, no adnexal mass.

### Investigations

#### Breast Usg

Both breast parenchyma shows mildly heterogeneous fibro-fatty glandular appearance with few (2 to 3) small cystic lesions noted within largest of size 9.2 x 7.0 mm in right breast and 1-2'o clock position around 3 cm away from nipple; largest in left breast of size 13.4 x 12.7 mm at 3'o clock position.

#### The Study Reveals

Few prominent venous channels noted within breast parenchyma.

No focal solid mass lesion seen.

No e/o any micro-calcifications seen.

No abnormal dilated ducts seen, nipple areola and retro-areolar region appears normal.

Skin and sub-cutaneous tissue appears normal. No dilated vessels seen.

No axillary lymphadenopathy seen.

**IMPRESSION:** Mild heterogeneous breast parenchyma with few small cystic lesions as described in bilateral breast-suggestive of Fibrocystic disease of breast/Fibroadenosis-BIRADS- 2

1. Hb- 11.6 gm%
2. ESR- 11 mm/hr
3. Kidney Function Test- within normal limits
4. Lipid profile- within normal limits
5. Thyroid profile- normal range of T<sub>3</sub>, T<sub>4</sub> and TSH
6. Urine routine – Normal

**Diagnosis:** Stana Granthi

## Oral Medications

| S.NO. | MEDICINE                            | DOSAGE                             | DURATION    |
|-------|-------------------------------------|------------------------------------|-------------|
| 1.    | <i>Guggulu Tikta Kashaya</i>        | 15 ml + 50 ml water BD before food | For 1 month |
| 2.    | <i>Kanchnaar Guggulu</i>            | 2 tablets BD with kashaya          |             |
| 3.    | <i>Nimbamritasava a. h. chi. 21</i> | 15 ml + 50 ml water BD after food  |             |

## RESULTS

### Right Breast

- Pre-mammary Zone:** Normal in echogenicity. No focal lesion is seen.
- Mammary Zone:** Anterior Mammary fascia is intact and regular. Fibroglandular tissue is normally visualized. No conspicuous solid nodule is seen. Nipple and areolar region appear normal. Ducts are normally oriented and dilated.
- Retro-mammary Zone:** Appears normal.
- Axillary Region:** No significantly enlarged lymph node is seen.

### Left Breast

- Premammary Zone:** Normal. No focal lesion is seen.
- Mammary Zone:** Anterior Mammary fascia is intact and regular. Fibroglandular tissue is normally visualized. No conspicuous solid nodule is seen. Nipple and areolar region appear normal. Ducts are normally oriented and dilated.
- Retromammary Zone:** Appears normal.
- Axillary Region:** No significantly enlarged lymph node is seen.

**Impression:** grossly normal scan (BIRADS-1).

## DISCUSSION

Benign breast disease is one of the most commonly prevalent disorders in a gynaecological setup, to some extent it may cause stigma in the patient and may also arise the fear of breast carcinoma as most people are unaware regarding the same.

By using *Ayurvedic* preparations we can treat the benign breast disease and save the trouble of unnecessary surgical interventions in such cases.

### Kanchnaar guggulu

Kanchanara guggulu has all the necessary properties such as ingredients of this formulation like Kanchanara, Shunti, Maricha, Pippali, Varuna and Ela possess Deepana, Pachana property, Shunti, Maricha, Pippali, Varuna, Ela and Patra acts as Vata-Kapha hara, Varuna

acts as shotha hara and krimighna, guggulu and Haritaki possess Lekhana property and Shunti, Vibhitaki having Bhedana property helps to get rid of the cardinal symptoms of Mamsaja Granthi.<sup>[3]</sup>

Powerful decongestants such as Kanchanara, Triphala are most of the important constituent plants of this formulation or their phytochemicals have demonstrated magnificent anti-carcinogenic properties.

Kanchnar guggulu exhibited a cytotoxic effect by inhibiting cell division (antimitotic) and reducing cell proliferation. These results substantiate its potential for the treatment of cancer and support its traditional use in the treatment of cancer.<sup>[4]</sup>

The preliminary phytochemical studies of Kanchanara Guggulu, confirmed the presence of constituents such as Flavonoids, Steroids, Sterols, Carbohydrates, Alkaloids, Glycosides, Saponins, Phenolic Compounds, Tannins, Proteins and Amino Acids.<sup>[5]</sup>

### ***Guggulu Tikta kashayam***

All the identified compounds had been reported as antioxidant, anti-inflammatory, analgesic, antipyretic, nephroprotective, anticholinesterase, antiarthritic, antispasmodic, antibacterial and immunostimulant.

### **Some of the identified compounds are**

- i. **Carvone:** Antispasmodic,<sup>[6]</sup> Antioxidant and free radical scavenging<sup>[7]</sup>
- ii. **Guggulsterone VI :** Anti-inflammatory and Antiarthritic,<sup>[8]</sup> Anti-inflammatory<sup>[9]</sup>
- iii. **Ar-Curcumene:**      Anti-inflammatory,      Antioxidant,<sup>[10]</sup>      Anti-inflammatory, Antinociceptive<sup>[11]</sup>
- iv. **Cedrol:** Inhibits oxidative stress and inflammation,<sup>[12]</sup> Reduces inflammation in Rheumatoid arthritis<sup>[13]</sup>
- v. **Beta-caryophyllene:** Anti-inflammatory and analgesic effect on different inflammatory conditions,<sup>[14]</sup> Attenuates oxidative stress and neuroinflammation<sup>[15]</sup>
- vi. **Thunbergol:** Anti-inflammatory, Antioxidant,<sup>[16]</sup> Nephroprotective,<sup>[17]</sup>
- vii. **Valencene:** Inhibits inflammatory signalling process mediated by NF-kB. Antipyretic<sup>[18]</sup> and Anti-Inflammatory.

### Nimbamritasavam

Mentioned in Vata Vyadhi Chikitsa Adhyaya of Ashtang Hridya Chikitsasthan it has been indicated for the disease like Kushtha, Nadivrana, Arbuda, Gandamala etc.

Guduchi, Nimba and other constituents of nimbamritasavam possess the anti-inflammatory, antipyretic, antibacterial, immunomodulatory activities. Also pacifies Vata and Kapha.

### CONCLUSION

According to *Ayurvedic* guidelines, BBD is caused by a *Dosha* imbalance in the body and can be treated with herbs, dietary adjustments, and lifestyle changes. *Haridra*, *Ashwagandha*, *Guggulu*, and *Shatavari* are popular *Ayurvedic* medicines for BBD because of their anti-inflammatory and hormone-balancing qualities. Patients can also be advised to make dietary modifications such as avoiding coffee, sugar, and spicy foods and eating more fruits and vegetables. *Ayurveda* offers promising options for managing BBD; however, it is extremely important to consult a qualified practitioner as well as collaborate with a healthcare provider to ensure proper diagnosis and monitoring of any changes in the breast tissue, and women with BBD can take an *Ayurvedic* approach to their health and well-being. *Ayurveda* may complement current medical treatments and give a comprehensive approach to BBD management. Women with BBD can take control of their health and well-being by using *Ayurvedic* medication and therapies to alleviate the symptoms of this ailment.

### REFERENCES

1. Li YR, Tang YX, Qiu CX, Lin QY, Xie CJ, Zhou MY, Liu YM. [Analysis of common gynecological diseases in 1142 married female workers]. Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi, 2019 Oct 20; 37(10): 785-788.
2. Autenshlyus AI, Studenikina AA, Bernado AV, Mikhailova ES, Proskura AV, Sidorov SV, Varaksin NA, Lyakhovich VV. [Assessment of the cytokine-producing resource of tumor biopsy samples from patients with invasive carcinoma of no special type and with non-malignant breast diseases]. Biomed Khim, 2019 Aug; 65(5): 418-423.
3. Acharya Sharngadhar Shailaj Srivastava, Sharangadhara Samhita, Jivanprada With Dipika And Gudhartah Dipika Commentary, Reprint Edition 2009 Madyama Khanda Vati Kalpana Varanasi: Chauhanbha Oriental, 2009; 7: 95-100.
4. Prachi Tomar, Yadu Nandan Dey, Deepti Sharma, Manish Motiram Wanjari, Sudesh Gaidhani, Ankush Jadhav, Cytotoxic and antiproliferative activity of kanchnar guggulu,

- an Ayurvedic formulation, *Journal of Integrative Medicine*, 2018; 16(6): 411-417., ISSN 2095-4964, <https://doi.org/10.1016/j.joim.2018.10.001>.
5. Prem Prakash Kushwaha; Ramesh Kumar; Panchi Rani Neog; Malay Ranjan Behara; Pratibha Singh; Ajay Kumar; Kumari Sunita Prajapati; Atul Kumar Singh; Mohd Shuaib; Amit Kumar Sharma; Abhay Kumar Pandey; Shashank Kumar; (2021). Characterization of phytochemicals and validation of antioxidant and anticancer activity in some Indian polyherbal ayurvedic products. *Vegetos*, 2021. doi:10.1007/s42535-021-00205-1
  6. Fábia Valeria Souza. Marcella Barbosa da Rocha, Damião P de Souza, Rosilene Moretti Marçal. Carvone: 14. (-)-Carvone: antispasmodic effect and mode of action. *Fitoterapia*, 2013; 85: 20-24.
  7. Thiyagarajan Rajeshwari, Boobalan Raja. Antioxidant and Free Radical Scavenging Effect of D-Carvone in Hypertensive Rats in Vivo and in Vitro Study: International Letters of Natural Sciences Onlin, 2015; 35: 6-12.
  8. Francis JA, Raja SN, Nair MG. Bioactive terpenoids and guggulsteroids from Commiphora mukul gum resin of potential anti-inflammatory interest. *Chemistry and Biodiversity*, 2004; 1842-1853.
  9. Khanna D, Sethi G, Ahn KS, et al. Natural products as a gold mine for arthritis treatment. *Current Opinion in Pharmacology*, 2007; 7(3): 344-351. doi: 10.1016/j.coph.2007.03.002
  10. Julia Podlogar A, Eugen Verspohl J. Anti-inflammatory Effects of Ginger and Some of its Components in Human Bronchial Epithelial (BEAS-2B) Cells *Phytotherapy Research*, 2012; 26(3): 333-336.
  11. Noura Dosoky, William Setzer N. Chemical composition and Biological Activities of essential Oils of Curcuma Species: *Nutrients*, 2018; 10: 1196.
  12. Sakhee MH, SA Sayyadi H, Sakhee N, Forouzanfar F. Cedrol- protects against constriction injury-induced neuropathic pain through inhibiting oxidative stress and inflammation. *Metabolic Brain Diseases*, 2020; 35: 1119-1126.
  13. Yu-meng Zhang, Jian Shen, Jun-ming Zhao, Jian Guan, Xin-rui Wei, Dong-yu Miao, WeiLi, Yi-cheng Xie, and Yu-qing Zhao. Cedrol from Ginger Ameliorates Rheumatoid Arthritis via Reducing Inflammation and Selectively Inhibiting JAK3 Phosphorylation. *Agric. Food Chem.*, 2021; 69(18): 5332-5343.
  14. Keylla da Conceição Machado, Muhammad Torequl Islam, Eunüs Ali S, Razina Rouf, Shaikh Jamal Uddin. A systematic review on the neuroprotective perspectives of beta-caryophyllene. *Phytotherapy Research*, 2018; 32(12): 2376-2388.

15. Ojha S, Javed H, Azimullah S, Haque ME. betaCaryophyllene, a phyto-cannabinoid attenuates oxidative stress, neuroinflammation, glial activation, and salvages dopaminergic neurons in a rat model of Parkinson disease. *Mol. Cell. Biochem.*, 2016; 418: 59-70.
16. Manisha Bhardwaj, Aparna Alia. *Commiphora wightii* (Arn.) Bhandari. Review of Its Botany, Medicinal Uses, Phytochemistry. *Journal of Drug Delivery & Therapeutics*, 2019; 9(4-s): 613-621.
17. Ayodele Jacob, Akinyemi, Oluwabamise Lekan Faboya, Awonegan Ayodeji Paul, Israel Olayide, Opeyemi Ayodeji Faboya, et al. Nephroprotective Effect of Essential Oils from Ginger (*Zingiber officinale*) and Turmeric (*Curcuma longa*) Rhizomes against Cadmiuminduced Nephrotoxicity in Rats. *J. Oleo Sci.*, 2018; 67(10): 1339-1345.
18. Salman Khan, Ran Joo Choi, Dong-Ung Lee, Yeong Shik Kim. Sesquiterpene Derivatives Isolated from *Cyperus rotundus* L. Inhibit Inflammatory Signaling Mediated by NF-κB. *Natural Product Sciences*, 2011; 17(3): 250-255.