iMedPub Journals www.imedpub.com

DOI: 10.21767/2386-5180.1000207

ISSN 2386-5180

Vol.5 No.4:207

About High Potent Efficacy of FLEBIL in Pharmacotherapy of Hemorrhoidal Disease Associated with Irritable Bowel Syndrome (IBS)

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Received: November 30, 2017; Accepted: December 15, 2017; Published: December 18, 2017

Citation: Dateshidze L (2017) About High Potent Efficacy of FLEBIL in Pharmacotherapy of Hemorrhoidal Disease Associated with Irritable Bowel Syndrome (IBS). Ann Clin Lab Res Vol.5: No.4:207.

Commentary

Hemorrhoid is a widely common condition, significantly worsening quality of human life. Prevalence of hemorrhoid disease ranges 44-86%. The reason of specific variability is related to society's embarrassing attitude to the problem, a major part of patients delay a visit for medical service unless complicated condition. On the other hand, the illness nearly in 40% occurs without significant signs and symptoms.

The disease prevalence is equal in both genders and mostly frequent in ages 45-65 years. Considered, that hemorrhoid prevalence is positively correlated with social-economic state. According to WHO dates, hemorrhoid problem is common for 80% population of megalopolises.

Despite of multi-factorial basis of hemorrhoid, there is a certain facilitating or aggravating condition in this point of view. No rarely, hemorrhoid is accompanying with IBS and on the other hand, IBS can promote hemorrhoid. Presumably, there is an inter-relational link between them. Concerning IBS, it is common functional disorder of GI tract. These problems both have common attitude by a major part of patients – avoiding timely address for medical care. But ignorance of the problems can lead aggravation of the condition. There is unconfirmed consideration, that advanced case of IBS might be precondition for Crohn's and Inflammatory Bowel Disease [1,2].

As shown in **Table 1**, like hemorrhoidal disease, the reasons of IBS are multifactorial. But unlike hemorrhoidal disease IBS diagnostics is more difficult problem because of its various signs and symptoms. It is possible each IBS patient symptoms may be completely different from one another's. Diagnostic problem becomes complicated because there are no internal pathological changes as well. There is presented only manifested functional complex of changes without any organic harm of GI tract. The most gastrointestinal symptoms of IBS are: abdominal discomfort, abdomen cramps, motoric disorder, mucous in feces **(Table 2)**. By the last sign, the disease for long time was called as mucous colitis. But point of view its physical and mental originating now is named as IBS. **Table 1** The emphasizing basis for interlink between hemorrhoid and IBS is tight mutual dependence of their reasons and symptoms. As a reason of hemorrhoid can be IBS, on the other hand hemorrhoid might be a provoking factor of IBS.

Reasons of hemorrhoid	Reasons of IBS
Irregular bowel activity (constipation or diarrhea)	Anus-rectal disorders - hemorrhoid
Hypodynamia	Gastroenteritis
Imbalanced diet	Infection diseases
Intra-abdominal press	Disbiosis
Chronic coughing	Hormonal disorders
Pelvis diaphragm disfunction	Gynecological
Hereditary predisposition	Chronic fatigue and stress
Age and etc.	Medications: antibacterial and ets.
	Hereditary predisposition
	Imbalanced diet

is particularly significant non-gastrointestinal Stress symptom of IBS and moreover it is provocative factor for IBS. Consequently IBS is considered as a bio-psycho-social problem. That means that psychosocial factors lead bowel functional disorder and on the other hand, IBS problems evokes stress without any exogenous stress irritants. So it is no simple coincidence that there is high prevalence of IBS among emotional, disposed to stress individuals. Especially, vulnerable are psychic and physical violence victims. Thus is a case of revealing psychological stress by physical symptoms. In relation to IBS treatment it is significant finding recently studied IBS pathophysiology. According to this study stressinduced IBS is linked with bowel epithelium permeability changing and bowel mast cells stabilization can be the potent target for therapy of IBS [3].

On the other hand, as mast cells degranulation is the source of various vasoactive and proinflammatory substances activity, there are important issue to study new generation of mast cells stabilizers. It has been identified potent mast cells

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stabilizer effect of natural components (flavonoids, phenols, terpenoids, coumarins) [4,5].

Table 2 Considerable non-gastrointestinal symptoms aretypical for IBS.

Gastrointestinal signs and symptoms	Non-gastrointestinal signs and symptoms	
Abdominal discomfort	Insomnia	
Abdomen cramps	Syndrome of chronic fatigue	
Diarrhea or constipation or both alternately	Depression, chronic stress	
Feeling of bowel incomplete emptying	Migraine-like pain	
Meteorism	Frequent diuresis	
Mucous feces	Chronic backache	
	Temporomandibular joint disorder	
	Unreasonable tachycardia	
	Somatoform disorders	

Furthermore considerable non-gastrointestinal symptoms are typical for IBS as well. Particularly, flavonoids express mast

Table 3 Chemical compounds and their pharmacological effects [8-10].

cells stabilizer effect, exactly among them are quercetin, rutin, fisetin, kaempferol. Furthermore quercetin decreases IL-1b, IL-6, IL-8 and TNF production and more effectively inhibits cytokines release from human mast cells, than mast cells well known stabilizer cromolyn [4-7].

The above considered all issues can be integrated to lead consequent therapeutic finding. The reasonable following arguments can be served for this.

1. Herbal composition manufactured by Aversi Racional medication Flebil, containing sum of flavonoids, phenols, terpanoids, coumarins; components – kaempferol, quercetin, rutin, luteolin; all together defining its pharmacological effects. Actually Flebil contains dry extracts of **Table 3**:

- Cissus quadrangularis extract 100 mg,
- Aesculus hippocastanum extract 50 mg,
- Vitis vinifera extract 50 mg,
- Matricaria recutita extract 25 mg,
- Calendula officinalis extract -15 mg.

As a vasotropic medication Flebil increases vascular tonus, lymph drainage and capillary resistance. Thus, Flebil is indicated for the pharmacotherapy of hemorrhoid, veins varicosis and chronic venous deficiency.

Components	Botanical family	Chemical compounds	Pharmacological effects
Cissus Quadrangularis	Vitaceae	Triterpens, beta-cytosterol, ketosteroids, phenols, tanins, carotins, vitamin C, flavonoids – quercetin and kaempferol, phytosterols; Calcium and phosphor ions.	Anti-asthenic, anti-inflammatory, analgesic, glucocorticoids antagonists' similar effect; bone and conjunctive tissues' solidating effect [7]
Aesculus hippocastanum	Hippocastanaceae	Olean type saponins, flavonoids – quercetin, kaempferol, rutin, glycoside – aescin, karotinoids, Vitamins B,K, P, polysacharides	Capillar protective activity, improving microcirculation, anti-platelet aggregatin, venotonic, anti-inflammatory effects.
Vitis vinifera	Vitaceae	Phenol compounds, proanthocyanidins	Potent antioxydative (50-times exceeds antioxidative efficacy of vitamin E and 20-times anti-oxydative efficacy of vitamin C) anti-carcenogenic, antimicrobial, anti- inflammatory, decreases risk of cardiovascular disease, vessels varicosis and formation of atherosclerosis plaque. Normalizes capillary structure and permeability.
Calendula officinalis	Asteraceae	Terpenoids, flavonoids, coumarins, quinons, essential oils, carotinoids and amino acids.	Anti-HIV, anti-tumor, anti-inflammatory, hepato-protective spasmolytic, antiseptic, anticongestive.
Matricaria chamomilla	Asteraceae	Essencial oils, main ingredialts - c-bisabolol, c-bisabolols' oxydesA, B, and C, chamazulen and flavonoids, matricin (in extraction process is converted to chamazulen) extra, Apigenin flavonoids -small amounts of luteolin and quercetin.	Bactericidal, fungicidal, spasmolytic, anti-inflammatory, analgesic, antiseptic, antipyretic, anti-anaphylaxis, sedative, antioxydative, antidepressant, antihistaminic, diaphoretic.

1. It is significant, that IBS phathophysiological mechanism considers mast cells stabilization as a therapeutic target for inhibition of bowel barrier disfunction [3]. On the other hand Flebil components reveal mast cells stabilization effects. Therefore it is logical to expect Flebil's potent efficacy in the pharmacotherapy of hemorrhoidal disease associated with IBS.

2. The above expressed consideration is strengthened by multilateral coincidence Flebils' components pharmacological effects with guidelines recommended for IBS treatment [6] **(Table 4)**.

Table 4 Flebils' components pharmacological effects withguidelines recommended for IBS treatment [11-13].

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epithelium than villus epithelium involving mast cells and protease-activated receptor-2 Scientific Reports 7: 4950.

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Recommended pharmacotherapy by guidelines	Flebil's components effects
Spasmolytics- Dicyclomine or Hyoscyanamide	spasmolytic
Analgesics (Acetaminophen)	analgesic
Laxatives	anti-inflammatory
Anti-Diarrheal	tonic
Adsorbents	antidepressant
Ferments	sedative
Probiotics	anti-oxydative
Tricyclic Antidepressants	antiseptic
Gastro Intestinal Antiseptics	

There are marketed several medicines containing bioflavonoids, widely used for hemorrhoid treatment as they have effective anti-inflammatory and restoring normal vein function characteristics. Therefor active substances like Diosmin, Hesperidin and etc. are indicated for chronic venous insufficiency of the lower limbs, as well as hemorrhoid disease. But in doses recommended for hemorrhoid treatment, flavonoids can be a reason of gastrointestinal disturbances, headache, and especially vulnerably regarding these adverse effects are patients with IBS. Thus, administration of individually bioflavonoid-containing pills for medical treatment of hemorrhoid associated with IBS can be considered as a riskfactor of worsening IBS symptoms [13-17].

Flebil's flavonoids are combined with other natural components being effective for IBS signs and symptoms, compensating flavonoids side effects on GIT. Thus, Flebil can be considered as the preferential in the pharmacotherapy of hemorrhoid disease associated with IBS [18].

In case of clinical confirmation of the presented consideration one medication Flebil will provide effective treatment of both conditions simultaneously -hemorrhoidal disease associated with IBS, moreover it is expected other substantial results -avoiding risk of polypharmacy and reducing therapy cost.

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