The Signs and Symptoms Comparison of Gastrointestinal Diseases between Classic Medicine and Iranian Traditional Medicine A Hybrid Qualitative Study

ABSTRACT

Background:

Iranian traditional medicine is the oldest form of medical structure and is, in fact, an inseparable part of the life of various Iranian societies. On the other hand, gastrointestinal and liver diseases are one of the most common causes of morbidity in the world, including in Iran. Such that 10% of diseases are allocated to them and their diseases are spreading increasingly.

Objective:

Considering the mentioned issues and the high prevalence of gastrointestinal symptoms, the aim of this study is to investigate the compliance of the symptoms of gastrointestinal diseases in classical medicine with Iranian traditional medicine from the viewpoint of Iranian traditional medicine experts.

Methods:

This is a hybrid qualitative study which was conducted in three phases, including: 1- theoretical, 2- field and 3- combinational phases. In the theoretical phase, two types of medicine text books i.e Iranian traditional and classic medicine text books. In the field stage, 13 academic Iranian traditional medicine experts with at least 5 years of work experiences in Iranian traditional medicine, were interviewed. Then, in combinational phase, the results of two early phases have been summarized using descriptive statistics.

Results:

The results of the study show that 12 of the 40 symptoms in this study had a compliance of 100%. These 12 symptoms are Increase of Salivation, Pica, Borborygmi, Hiccups, Abdominal distention, Melena, Anal Fissure, Anal Stenosis, Cryptitis, Anal pruritus, Halitosis, Rectal pain; Also, the results showed that 8 of the 40 symptoms in this study had over 70% compliance. These 10 symptoms are as Belching, Regurgitation, Hematemesis, Flatulence, Increased Bowel sound, Abdominal pain, Diarrhea, Jaundice and Anal prolapse. Also, the percentage of compliance of the other symptoms was less than 70%.

Conclusion:

Considering the results of this study and the capabilities of Iranian medicine in relation to symptoms of gastrointestinal diseases with classical medicine, it is possible to design appropriate patterns to expose it. Also, an integrated approach to clinical research is recommended to improve the efficacy and safety of gastrointestinal treatments.

Keywords: Sign, Symptom, Gastrointestinal, Traditional Persian Medicine, Classic Medicine.

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Introduction

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Traditional and complementary medicine is a collection of knowledge and skills and activities that are established based on theoretical and culturally different experiences which is used in the prevention, diagnosis, and treatment of the physical and psychological conditions of patients. In recent years, researchers and physicians all around the world, have paid increased attention to complementary medicine. In such a way that, annually the use of complementary medicine in addition to commonly used medicine is used as a solution (1, 2). No complete success in common medicine in the definite treatment of many diseases on the one hand, and the popular acceptance of complementary medicine for the nonuse of chemical compounds and the use of herbal and natural medicines on the other hand are among the main factors of this attention (3). The great attention paid by international organizations such as the WHO to the development and use of traditional medicine in the health services and treatment system has led to a greater appreciation of the valuable heritage of traditional medicine and taking action in relation to traditional treatments used in the different disease (4). Iranian traditional medicine is the oldest form of medical structure and is, in fact, an inseparable part of the life of various Iranian societies. Traditional medicine in Iran, with several hundred years of existence, has a high capacity for the prevention and treatment of diseases. which this point solves many health and medical problems (5). In traditional medicine text books, symptoms and signs have sometimes been raised as illnesses and have been discussed independently in the titles of the book. In modern medicine texts symptom is defined as "Any mental evidence of a disease or condition of a patient that is felt by him". It also suggests a change in the patient's state of health, which indicates a physical or mental state, for example, pain and itching. Sign is an objective finding received by the examiner, for example, a rash of skin (6). The gastrointestinal and liver diseases are one of the most common causes of morbidity in the world, including in Iran. So that they cause 10% of the deaths. And the incidence of this disease is increasing (7-9). The prevalence of gastrointestinal symptoms is high. Among the symptoms of the gastrointestinal tract, heartburn, abdominal pain, diarrhea, constipation, nausea, vomiting, and anorectal problems are among the most common symptoms (10). In a study of Reviews of System, the prevalence of symptoms is as abdominal pain 8-54%, heartburn, 48-10%, regurgitation, 45-9%, and heartburn together with regurgitation were reported about 59-29% (11). Considering the mentioned issues and the high prevalence of gastrointestinal symptoms the aim of this study was to investigate the compliance of the symptoms of gastrointestinal diseases in classical medicine with Iranian traditional medicine from the viewpoint of Iranian traditional medicine experts.

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Material and Methods

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- 80 This is a hybrid qualitative study carried out in three phases, including: 1- theoretical, 2- field and,
- 3- combinational phases.

82 Phase I: Theoretical study

- 83 The theoretical phase was conducted in two steps. In step 1, the description, etiology, physiology
- 84 gastrointestinal sign and symptom in Iranian traditional medicine also the importance of
- 85 matching in viewpoints of Iranian traditional medicine resources were studied. In step 2, we
- 86 reviewed the sign and symptom using recent articles and projects in addition traditional
- 87 resources. We searched these references via several reliable sources such as PubMed, Google
- 88 scholar, Scopus, Irandoc, Mag Iran, SID, Iran MEDEX, Iranian traditional book like Qanoon-fet-
- seriorar, seopus, francoc, ring fran, sib, fran Medeler, francoc francoc free
- 89 tteb, Tebbe-Aakbari, kamel-os-ssanae, Zakhire, Sharh-ol-asbab, using keywords including
- 90 "sign", "symptom", "gastrointestinal", "Iranian traditional medicine", "comparison ", " classic
- 91 medicine. The flowchart of the study can be seen in diagram 1.

92 Phase II: Data collection

- 93 In the phase, we provided a semi-structural interview with 20 Iranian traditional experts, of
- 94 whom 13 of them completed the interview. The experts had at least 5 years history of work
 - experiences in Persian medicine at Tehran province. This interview was performed within
- 96 October and November 2017. Each interview was lasted for 30 to 50 minutes in which answers
- 97 were saturated at 7th interview. Findings of the interview and analysis which are summarized in
- 98 Table 1.

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- The interview contained the following subjects:
- 1) The definition of gastrointestinal sign and symptom base on Iranian traditional and classic medicine.
- 2) Request to match defined gastrointestinal sign and symptom based on their experience.
- 3) Collecting the data and primary analysis
 - 4) Feedback of primary result presented to the expert and some problems or corrective comments have been made
- 5) Final result prepared and tabled in table1.

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Results

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The comparison between Iranian traditional and classic medicine sign base on Iranian traditional experts presented in Table 1, the results of this study show that 12 of the 40 symptoms in this study had a compliance of 100%. These 12 symptoms are Increase of Salivation, Pica, Borborygmi, Hiccups, Abdominal distention, Melena, Anal Fissure, Anal Stenosis, Cryptitis, Anal pruritus, Halitosis, Rectal pain; Also, the results showed that 8 of the 40 symptoms in this study had over 70% compliance. These 10 symptoms are as Belching, Regurgitation, Hematemesis, Flatulence, Increased Bowel sound, Abdominal pain, Diarrhea, Jaundice and Anal prolapse. Also, the percentage of compliance of the other symptoms was less than 70%.

Table1: The comparison between Iranian traditional and classic medicine sign base on

Iranian traditional experts

Other Iranian Traditional sign			Classic Medicine sign	Major Iranian Traditional sign
			Salivation (increase)	ehraqriq (100%)
			Halitosis	bakhharol- famm (100%)
	intibagkhmeri (10%)	khonāq (30%)	Odynophagia	'osrol- bal ' (60%)
	khonāq (11%)	'osrol- bal ' (33%)	Globus hystericus	intibagkhmeri (56%)
	other (17%)	khonāq (8%)	Dysphagia	'osrol- bal ' (75%)
thiql (9%)	tokhamah (8%)	da fol-hadm (35%)	Dyspepsia	sūʻol-haḍm (48%)
tokhamah (11%)	ḍaʿfol-hạdm (16%)	sū ' ol-haḍm (28%)	Indigestion	thiql (45%)
	waji ' ol- mi 'dah (10%)	nafkh (10%)	Belching	joshā (80%)
	jū ' ol- kalbī (8%)	jū 'ol-baqarī (29%)	Anorexia	Faqdshahwahol- (63%)
			Pica	waḥam (100%)
	other (11%)	jū (29%)	Polyphagia	jūʻol-kalbī (57%)
	other (24%)	jūʻol-baqarī (18%)	Bulimia	jū ʻol- kalbī (58%)
	Ḥorqatol-mi 'dah (10%)	joshā (18%)	Regurgitaition	ḥomūḍah (72%)
		tahawwo (47%)	Nausea	ghathayan (53%)
	tahawwo (11%)	inqilāb mi 'dah (22%)	Vomiting	qay' (67%)
		other (15%)	Hematemesis	qay ' od-dam (85%)
		other (14%)	Flatulence	nafkh (86%)
		other (11%)	Bowel sound (increase	qar a qir (89%)
			Borborygmi	qarāqir (100%)
			Hiccups	fowaq (100%)
	other (11%)	waja ʻ ol-fo ʻ ad (24%)	Heart burning	Ḥorqatol-mi 'dah (65%)
		tashannoj mi 'dah (33%)	Abdominal rigidity	jos' at ol- mi 'dah (67%)
		other (23%)	Abdominal pain	waji ' ol- mi 'dah (77%)
			Abdominal distention	nafkh (100%)
		birāzyabas (45%)	Constipation	ḥaṣr (55%)
		other (29%)	Diarrhea	ishāl (71%)
zaḥīr (7%),khilfah (6%), zarab (6%)	haydah (10%)	ishāl (14%)	Dysentery	ishālol-dam (57%)
	other (37%)	khilfah (25%)	Dumping syndrome	zarab (38%)

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other (37%)	zaḥīr (25%)	Bloody stool	ishalol-dam (38%)
other (16%)	qīyāmol-kabidī (17%)	Hematochezia	ishalol-dam (67%)
		Melena	ishalol-dam (100%)
	other (50%)	Stool,clay_colored	Zalaqol-'am'ā' (50%)
	other (8%)	Jaundice	yaraq a n (92%)
		Anal Fissure	shiqaqmaq'ad (100%)
		Anal Stenosis	warammaq'ad (100%)
		Cryptitis	warammaq'ad (100%)
	other (33%)	Fecal incontinence	istirkhā'sharaj (67%)
	other (14%)	Anal prolapse	khorūjmaqʻad (86%)
		Anal pruritus	ḥikkahmaqʻad (100%)
		Rectal pain	warammaq'ad (100%)

122 Discussion

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144 145 Considering the role of complementary medicine and traditional medicine in the treatment of known diseases, the aim of this study was to investigate the adaptation of the symptoms of gastrointestinal diseases of classical medicine to traditional medicine of Iran from the viewpoint of Iranian traditional medicine experts. The results of this study showed that from 40 identified symptoms in the library study phase the following results were shown: Compliance of 12 symptoms was 100%, compliance of 8 symptoms was more than 70%, and the compliance of 20 other symptoms was less than 70%. Of course, the first point in examining this compliance is that the low or high compliance of a symptom does not necessarily mean that it is of less or more importance, and in some cases, the low compliance indicates more precision of traditional medicine in comparison with the recognition of the symptoms of the disease in the classical medicine. One of the reasons for low compliance in some common symptoms, such as nausea and vomiting is due to the continuity of the definitions and the causes of their causes in traditional medicine. The term nausea and vomiting is used in classical medicine to express the symptoms of nausea and vomiting. The same symptoms in traditional medicine are known as "tahawwo ghathayanqay" and "taqallobonnafs" (12) "qay", is called gastric motility, which results in the repulsing of the substance through the mouth (13), However, this movement is existed in "tahawwo" but there is not any substance repulsed. Traditional medicine, "ghathayanis" the primary cause of nausea, in which the person feels uncomfortable, but the movement of the substance has not yet happened. In all the above mentioned items such as "tahawwoghathayanqay" the causative agent of the disease can either be related to the stomach itself or from another part of the gut.(12) If the substance is specifically related to the stomach, it is called "tagallob o nnafs" (14).

To provide further evidence in this regard, it is possible to differentiate the definitions and causes of digestive problems in the classical and traditional medicine perspective. Digestive problems are described in classical medicine with the words Indigestion and Dyspepsia (15). Meanwhile, in traditional medicine,

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this problem is expressed in terms of mild, moderate and sever digestion problem, , as well as bloating, as 146

147 more prominent manifestations (16-19) In Iranian traditional medicine, the problem of digestion is

considered as a syndrome in which the severity of the symptoms is expressed by different definitions. 148

Mild digestion problems are defined as "da'fol-hadm", moderate digestion problems as "sū ' ol-hadm" 149

and sever digestionproblems as "tokhamah" (20, 21). Consequently, the lack of convergence of views of

traditional medicine professors can be justified (12)For example; traditional medicine experts have 151

reported dyspepsia as 48% "su ol-hadm", 35% ofda fol-hadmand 8% of tokhamah and indigestion as 152

45% thiql, 28% sū 'ol-hadm, 16% da fol-hadm, and 11% tokhamah. 153

Another important point to justify the mismatch of traditional medicine experts' opinions is that some of 154

the symptoms cause some other symptoms. Constipation, for example, has been mentioned in traditional 155

medicine with the term "Hasr", that means constraint, the equivalent of constipation and "birazyabas 156

which means (Dried fecal materials) is its cause (22-25) in this study, constipation is about 55% in 157

158 compliance with Hasr and 45% with birazyabas, Also, some of the symptoms or results of a patient in

159 traditional medicine are equated with a sign or symptom in classical medicine. For example, swelling is

due to Cryptitis, Anal Stenosis and Rectal pain (26). 160

161 Conclusion

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Regarding the results of this study and the Iranian medicine's competence is in terms of the symptoms of 162

163 gastrointestinal diseases with classical medicine, it is possible to design appropriate patterns for dealing

164 with it. Also, an integrated approach to clinical research is recommended to improve the efficacy and

165 safety of gastrointestinal treatments.

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