Role of Homoeopathic Medicines in the Patients of Chronic Hepatitis-C

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Abstract

Chronic infection with the Hepatitis C virus is one of the leading causes of global morbidity and mortality. Well-diagnosed thirteen cases of chronic Hepatitis C have been treated with homoeopathic medicines at Gaurang Clinic and Centre for Homoeopathic Research, Lucknow (GCCHR) from December 2008 to October 2016. Out of them, viral load was reduced to below detection limit in three cases (23.08%), considerable reduction in viral load was recorded in six cases (46.15%) and four cases (30.77%) did not respond to treatment.

Introduction

Hepatitis C is an infectious disease caused by single stranded RNA virus called hepatitis C virus (HCV) that primarily affects the liver. [1] It is one of five known hepatitis viruses namely A, B, C, D, and E. [2] It has seven Genotypes and each genotype has different subtypes. [3] During acute infection, patients have mild or no symptoms. Occasionally it presents vague symptoms like fever, weakness, abdominal pain, and jaundice etc. The virus persists in the liver as a chronic infection in about 75% to 85% cases and produce no symptoms. [4] It, however takes many years to develop liver pathology and occasionally cirrhosis. Its late complications include liver failure, liver cancer and GIT hemorrhage due to esophageal and gastric varices. [1]

HCV infection occurs among all ages but the highest incidence of acute hepatitis C is observed in persons aged between 20-40 years.

Background

Chronic infection with the hepatitis C virus is one of the leading causes of global morbidity and mortality. An estimated 130–200 million people worldwide are infected with hepatitis C. [5] About 11 million new cases

were recorded in the year 2013. [6] Its incidence is common in Africa and Central and East Asia. About 3,43,000 deaths due to liver cancer and 3,58,000 deaths due to cirrhosis occurred the world over in 2013 due to hepatitis C. [7]

No vaccine capable of preventing HCV infection is available so far. [8] There are certain claims by physicians of alternative systems of medicine having treated cases of Hepatitis C. [9] These are, however, neither scientifically documented nor published in journals with pathological evidence. However, two cases treated by homeopathic medicines have been published by Barbara Sarter et al in march 2012.[10]

Transmission

HCV spreads primarily by blood-to-blood contact by poorly sterilized medical equipment, needle injuries and blood transfusion. [11] It may also spread from an infected mother to her baby during birth [12] and rarely spread by sexual contact. [13]

Diagnosis

Chronic hepatitis C is classified under code B18.2 in 2016 version of ICD-10. The Hepatitis C antibody test

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is used for primary screening. If it is positive, the polymerase chain reaction (PCR) test is preferredfor measuring the amount of HCV RNA in blood called viral load. [14] This test is helpful in assessment of infection status and to monitor response to treatment progress.

Objective

- To explore the role of Homoeopathic medicines in the treatment of HCV infected patients.
- To produce evidence based data of treated patients on modern diagnostic parameters.

Material and method

The study was observational and conducted at Gaurang Clinic and Centre for Homoeopathic Research, Lucknow. The cases were enrolled between the period of December 2008 to October 2016. To assess the status of patient and monitor the response to the treatment, HCV RNA quantitative Polymerase chain reaction (PCR) test was done till patient continued treatment. To screen the status of liver, ultrasonography of hepatobiliary region and Liver Function Test were also done according to the need during the course of treatment.

Viral load more than 5000 IU/ML was the only inclusion criterion for the study. Change in viral load more than this limit was considered for status of treatment. Increase and decrease in viral load more than 5000 was considered as 'Worsened' and 'Improved'. Change within the limit was considered as 'Status quo'.

A total of 15 hepatitis-C patients have been treated with viral load more than 5000 IU/ml, out of which 2 were lost to follow-up. Finally, 13 patients who were on homoeopathic treatment completed the study.

The selection of constitutional medicine was done by repertorising the rubrics obtained from life space investigation guided by totality of presenting signs and symptoms on the basis of 'Principle of Similia,' ^[15] using complete repertory with the help of Hompath Classic software in every case ^[16]. Selected constitutional medicine was dispensed in 30C, 200C and 1000C potency according to the need of individual case followed by placebo or some acute medicines as per clinical conditions of the case being treated. A periodic biweekly or monthly follow-up of the cases was done in entire duration of treatment. The repetition of selected medicine/second prescription was based on the response of the patient to the first prescription

[17]. The treatment duration of patients ranged from 3-43 months.

Result

The result of present study suggests the positive role of homoeopathic medicines on inhibition of viral load in patients of Chronic Hepatitis C.

Out of 13 cases, viral load was reduced to below detection limit in three cases (23.08%), considerable reduction in viral load was recorded in six cases (46.15%) and four cases (30.77%) did not respond to treatment.

It was observed that out of 13 patients, 9 (69.2%) patients have shown clinical improvement and 2 (15.4%) were asymptomatic since beginning. However, 2 (15.4%) could not get relief in clinical symptoms.

The age of patients ranged from 7-70 years with median 48.15 yrs. Out of 13 patients, 9 (69.2%) were females and 4 (30.8%) were males.

The details of prescribed medicine are summarized in Table 2 which shows that three medicines were frequently prescribed. These were Lycopodium (46.1%), Arsenic alb (15.4%) and Pulsatilla (15.4%) accounting for 76.9% of the total medicines prescribed.

Table1: Status of Patients (n = 13)

Status	No. of Patients	Percentage
Improved	9	69.20
Not Improved	4	30.80
Total	13	100.00

Table2: Prescribed medicine and their Response (n = 13)

Sl	Medicine	Number of	Impro-	Wors-
No		Patients	ved	ened
1	Lycopodium	6	4	2
2	Arsenic alb	2	1	1
3	Pulsatilla	2	2	0
4	Calc Carb	1	1	0
5	Nux vom	1	0	1
6	Natrum mur	1	1	0
	Total	13	9	4

Model case - 1

Mr. M. S (Reg. No: M-04303, HCV No: 8) aged about 50 years, a diagnosed case of Hepatitis- C came to Gaurang Clinic and Centre for Homoeopathic Research, Lucknow for treatment on dated 05/03/2015.

Clinical Finding:

Weight: 70 kg Investigations:

Liver Function Test (22/03/2015): S. Bil (Total) – 0.97, SGOT – 42, SGPT – 102, S. Alkaline phosphatase–272

Hepatitis C Viral Load PCR (16/02/2015) – 6,809 IU/ml

Genotyping (16/02/2015) – GENOTYPE 3

Ultrasonography (22/03/2015)—Coarse Echotexture of Liver parenchyma with Splenomegaly

Upper GI Endoscopy (04/02/2015): Grade – 2 Esophageal varices

Presenting Complaints: Diabetic (On Human Insulin), H/o Haematemesis (Binding done for oesophageal varices), Loss of appetite, Weight loss, General weakness.

Following rubrics were selected for repertorisation:

Contradiction – disposition to	Anxiety crowd	
Anger- contradiction	Anxiety Anticipation	
Aliment from Anger suppressed	Cowardice	
Anxiety – business	Dictatorial	
Egotism	Censorious	
Optimistic	Impatience	
Fear of narrow places	Thirst: Increased	

Repertorial Chart Repertorisation Table Reg_No.: 4019 Rep_Date: 05/03/2015 Patient Name : Normal Repertorisation AL 26 19 18 13 11 10 Totality Symptoms Covered 8 [C] [Mind]Contradict, disposition to: 1 [C] [Mind]Anger, irascibility:Tendency:Contradiction, from: [C] [Mind]Ailments from:Anger, vexatio [C] [Mind]Anxiety:Business, about: 1 2 [C] [Mind]Anxiety:Business, about: (C] [Mind]Egotism, self-esteem: (C] [Mind]Optimism: (C] [Mind]Fear:Narrow place, in, claustrophobia: (KT] [Mind]Anxiety:Crowd,in a: (C) 2 (1) [C] [Mind]Anxiety:Anticipating: [C] [Mind]Cowardice: 1 [C] [Mind]Dictatorial, domineering, dogmatic, despotic [C] [Mind]Censorious, critical: 2 3 [C] [Mind]Impatience: [C] [Stomach]Thirst: Total Symptoms: 14 Symptoms 1 to 14 Remedies 1 to 15 Total Remedies: 420 page 1 of 1 DE

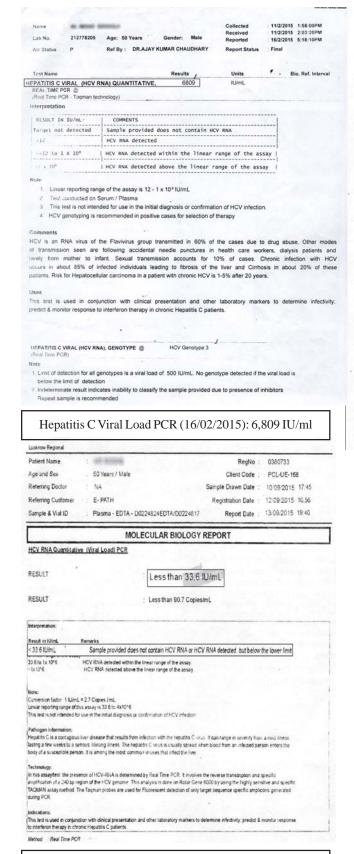
Repertorial Analysis

Medicines	Lyco	Nux vomica	Sulphur	Ign	Sil
Totality	26	19	18	15	15
Symptom coverage	13/14	11/14	10/14	8/14	8/14

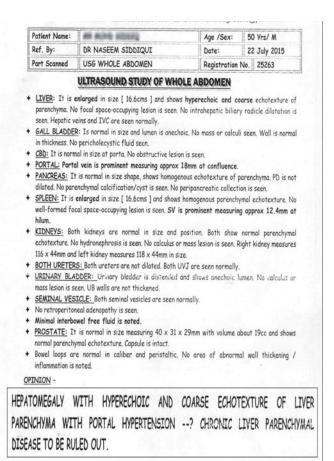
Selection of Medicine:Contradiction disposition, Anger on contradiction, Anger suppressed, Dictatorial nature and Anticipatory anxiety favored the Selection of Lycopodium.

Treatment Chronology:

Date	Symptoms/Investigations	Prescription	
05/03/2015	Loss of appetite, Weight loss, General weaknessLiver Function Test (22/03/2015): S. Bil (Total) – 0.97, SGOT – 42, SGPT – 102, S. Alkaline phosphatase–272 Hepatitis C Viral Load PCR (16/02/2015) – 6,809 IU/ml	Lycopodium 30 weekly followed by China30 BD for two weeks	
23/03/2015	Appetite improved slightly Weakness -better Weight – 70 kg.	Lycopodium 30 weekly followed by China30 BD for two weeks	
06/04/2015	Appetite improved Weakness -better Weight – 70 kg. LFT(05/04/2015)- S. Bil (Total) – 0.99, SGOT – 75, SGPT – 61, S. Alkaline phosphatase–239	Lycopodium 30 weekly followed by China30 BD for 8 weeks	
09/06/2015	Appetite- poor, weakness↓,Flatulence↓. Weight – 69 kg. O/E- Conjunctiva yellow.LFT (06/06/2015)- S. Bil (Total)–1.30, SGOT –196, SGPT–250, S.Alkaline phosphatase–295	Lycopodium 200 fortnightly followed by China30 BD for four weeks.	
	Same treatment was continued till 10/09/2015		
10/09/2015	Appetite- improved, weakness↓, Flatulence↓. Weight – 69 kg. O/E- Conjunctiva yellow. Hb (02/09/2015) – 11gm. LFT (02/09/2015)- S. Bil (Total)–1.40, SGOT –186, SGPT–195, S.Alkaline phosphatase–322	Lycopodium 200 fortnightly followed by China30 BD for two weeks.	
23/09/2015	Symptomatically better Hepatitis C Viral Load PCR (10/09/2015) -<33.6 IU/ml (Less than detectable limit)	Lycopodium 200 fortnightly followed by China30 BD for four weeks.	
	Same treatment was continued till 13/12/2015		
13/12/2015	Appetite- improved, weakness↓, Flatulence↓. O/E- Conjunctiva normal. Hb (30/11/2015) – 12gm. LFT (30/11/2015)- S. Bil (Total)–0.85, SGOT –146, SGPT–180, S. Alkaline phosphatase–398	Lycopodium 200 fortnightly followed by China30 BD for four weeks.	
	Treatment Stopped		



Hepatitis C Viral Load PCR (10/09/2015)–Less than 33.6 IU/ml (Less then detectable limit)



USG (22/03/2015): Coarse Echotexture of Liver parenchyma with Splenomegaly.

Model case-2

Mrs. G. D (Reg. No: G-01313, HCV No:15) aged about 60 years, a diagnosed case of Hepatitis C consulted us on 26 April 2016. The case was taken up in detail:

Clinical Findings:

Blood Pressure —150/80mmHg

Investigations:

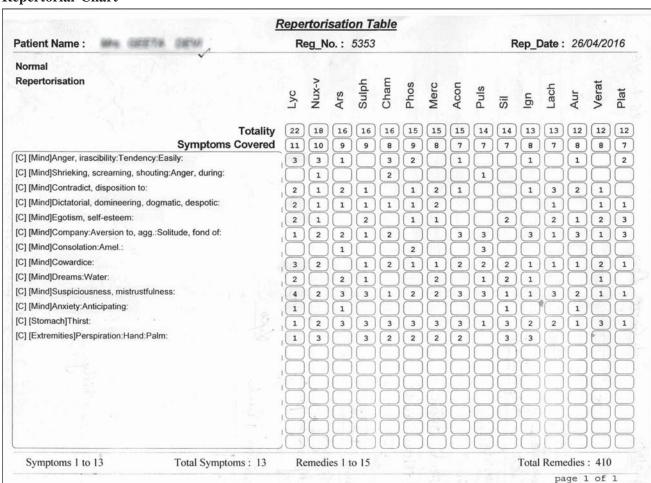
- Liver Function Test (13/04/2016): S. Bil (Total)
 0.6, SGOT 49, SGPT 62, S. Alkaline phosphatase–91, Albumin –3.4, Globulin -2.8
- Hepatitis C Viral Load PCR (21/04/2016) 27,30,000IU/ml
- Genotyping (21/04/2016) GENOTYPE 3
- Ultrasonography (12/02/2016)—Normal Hepatobiliaryscan

Presenting Complaints: Unsatisfactory defecation, poor appetite and borborygmi

Following rubrics were selected for repertorisation:

Anger- easily	Cowardice
Anger- shouts	Dreams – water
Anger- contradiction	Suspicious
Dictatorial	Anticipatory anxiety
Solitude desire	Perspiration- palm
Consolation amelioration	Thirst increased
Egotism	

Repertorial Chart



Repertorial Analysis

Medicines	Lyco	Nux vomica	Ars	Sulphur	Chamomilla
Totality	22	18	16	16	16
Symptom coverage	11/13	10/13	9/13	9/13	8/13

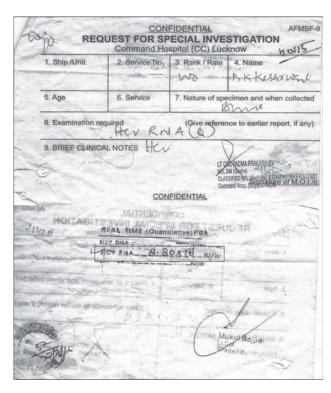
Selection of Medicine: Anger on contradiction, Dictatorial nature, Suspiciousness and Anticipatory anxiety favored the Selection of Lycopodium.

Treatment Chronology:

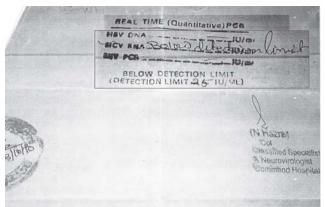
Date	Symptoms/Investigations	Prescription			
26/04/2016	Unsatisfactory evacuation of stool, Polydefecation (3-4 times)Appetite – poor with Flatulence	Lycopodium 30 weekly followed by China30 BD for two weeks			
	Liver Function Test (13/04/2016):S. Bil (Total) – 0.6, SGOT – 49, SGPT – 62, S. Alkaline phosphatase–91, Albumin –3.4, Globulin -2.8				
	Hepatitis C Viral Load PCR (21/04/2016): 27,30,000IU/ml				
16/05/2016	Stool normal. Appetite improved.	Lycopodium 30 weekly followed by China30 BD for one month			
	Same treatment was continued till 21/10/2016				
21/10/2016	Clinically better Hepatitis C Viral Load PCR (13/10/2016) – 8.8 X 10=88 IU/ml. USG (13/10/2016)–Normal Hepato-biliary scanL FT (13/10/2016) S. Bil. (Total)-0.7, SGOT-29,SGPT-35, B. P. – 180/98 mmHg	Lycopodium 30 weekly followed by China30 BD for one month			
17/11/2016	Hepatitis C Viral Load PCR (17/11/2016) – below detection limit	Lycopodium 30 weekly followed by China30 BD for one month			
	Treatment Stopped				



Hepatitis C Viral Load PCR (21/04/2016)– 27,30,000IU/ mlGenotyping (21/04/2016)– GENOTYPE 3



Hepatitis C Viral Load PCR (13/10/2016) – 8.8 X 101=88 IU/ml.



Hepatitis C Viral Load PCR (17/11/2016) – below detection limit

Discussion and Conclusion

This observational evidence based study is the first of its kind as no proper published work is available on this topic in homoeopathic journals. The results of this study is eye opening and encouraging. It gives a ray of hope that treatment of such dreadful disease is possible by homoeopathic medicines.

The result also supports the fact that homoeopathic medicines selected on totality of symptoms are useful in inhibition of viral load in patients of chronic hepatitis -c with clinical improvement. The most useful trial medicine in this study was Lycopodium which has been prescribed in 6 (46.1%) cases. Cinchona officinalis was given as hepato-protective everyday which helped the patients.

The currently approved initial therapy for patients with chronic HCV infection consists of treatment with interferon for at least 48 weeks. The rates of sustained virologic response with this regimen are approximately 15 to 20 percent. [18] Interferon therapy has lot of side effects. [19] Homoeopathic medicines, however, have been found to be safe and effective in clearing of Hepatitis-C virus. Randomized control trials with more sample size are needed to further validate the role of homoeopathic medicines in patients of chronic hepatitis—C.

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