







Safety and efficacy of BoozLiv[™] in patients with alcoholic liver disease: An open-label, randomized trial

Institutional Human Ethics Committee Permission No. 8283/IEC/2022

Clinical Trial Registry: CTRI/2022/08/044978

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1. Introduction

Alcoholic liver disease (ALD) is a major cause of mortality and morbidity worldwide. There is a spectrum of alcoholic liver disease namely steatosis, hepatitis, cirrhosis and hepatocellular carcinoma. Long-term excess alcohol exposure leads to alcoholic liver disease-a global health problem without effective therapeutic approach. ALD is increasingly considered as a complex and multifaceted pathological process, involving oxidative stress, inflammation and excessive fatty acid synthesis. The use of alternative medicine such as herbal medicines, phytonutrients, ayurvedic products and nutraceuticals used widely by the majority of the patients for various health challenges around the world. Based on the existing data, use of herbal medicines as a supplemental therapy in alcoholic liver disease has a greater therapeutic outcome. BoozLivTM is a unique formula is made from natural herbs and nutrients that are known to support liver health and promote liver detoxification. This helps to eliminate toxins from the liver and improve liver function. As BoozLiv $^{\text{TM}}$ siddha formulation have anti-oxidants, hepato protective and appetite stimulating properties but there is no further clinical evidence in safety and efficacy of the BoozLivTM formulation. Hence, we have designed a randomized open-label trial to estimate the efficacy and safety of the BoozLivTM in alcoholic liver disease patients

2. Objectives

Primary Objectives

■ To determine the effect of BoozLivTM add-on therapy in the liver function parameters at 30th, 60th and 90th day of follow-ups.

Secondary Objectives

- To observe and assess the adverse events during the study period.
- Using MELD Score to determine the severity of the disease

3. Methodology

3.1. Study Design

Randomized, open-label trial

3.2. Study Site

Department of Medical Gastroenterology, SRM Medical College Hospital and Research Centre

3.3. Ethical Considerations

This study was conducted according to the standards of the International Committee on Harmonization on Good Clinical Practice and the revised version of the Declaration of Helsinki. The institutional human ethics committee of SRM Medical College Hospital and Research Centre approved this study protocol (8283/IEC/2022) followed by study was registered in Clinical Trial Registry India (CTRI). (CTRI/2022/08/044978)

3.4. Study Duration

12 months

3.5. Sample Size

Pilot Study (30 Patients in each group)

3.6. Investigational Product

Each 10ml of Syrup contains,

Wedelia calandulacea 350mg

Phyllanthu niruri 350mg

Piper nigrum 100mg

Pimpenella anisum 100mg

Aegle marmalos 120mg

Andrographis paniculata 140mg & Excipients q.s

3.7. Inclusion Criteria

- Adults aged over 18 years with the evidence of alcoholic liver disease (ALD) based on a thorough history, physical examination, and laboratory tests
- Chronic alcohol intake, Identified with AUDIT (Alcohol Use Disorder Inventory Test) Questionnaire
- Active alcohol use until 4 weeks prior to presentation
- ALT and AST elevated > 1.5 times the upper limit of normal
- Over 1.5 ratio of AST to ALT
- Patients willing to participate in the study

3.8. Exclusion Criteria

- Severe alcoholic hepatitis with cirrhosis or life expectancy less than 3 months
- Severe renal impairment (Glomerular filtration rate below 60 ml/min per 1.73m²)
- Hepatic disorders due to cardiac causes, inherited metabolic causes, hemochromatosis and Wilson's disease
- Participants with active viral hepatitis
- undergoing active treatment for alcohol withdrawal syndrome (AWS) at the study entry
- Participants on hepatotoxic medications like antitubercular medication, antiviral medication, paracetamol etc.
- Pregnant, attempting to conceive, or lactating women Participating in another clinical trial with an active intervention or drug or device with last dose taken within 60 days

3.9. Treatment Groups

Group A - Control Group (Thiamine + Vitamin K + Ursodeozycholic acid)

Group B - Control + BoozLivTM 10ml twice daily

4. Study Procedure

A randomized, open-label, pilot trial will be conducted for a duration of 12 weeks wherein treatment will be assigned using a randomization code (Random Allocation Software V 2.0) in the ratio of 1:1. Liver function tests, MELD scoring system and quality of life will be estimated at the baseline (before treatment), 30th, 60th and 90th day after the treatment to determine the efficacy of BoozLivTM in the alcoholic liver disease patients.

4.1. Measurement of anthropometric indices

Demographic information was achieved by a questionnaire. Height and body weight were measured without shoes and with the study subjects wearing light clothes. Height was measured to the nearest 0.1 cm, and weight was measured to the nearest 0.01 kg. Measurements were carried out using portable calibrated electronic weighing scale and inflexible measuring bars. BMI was calculated as weight/height² (kg/m²).

4.2. Estimation of Liver function tests

Blood samples of 4 mL were obtained in the morning (8-10 am) by venous puncture after overnight fasting (at least 12 hours fasting). The serum was separated by centrifugation (5430R, Eppendorf). Total bilirubin, direct bilirubin, SGOT, SGPT, ALP, Ablumin, Globulin, Total Protein and GGTP was estimated through fully automated clinical chemistry analyzer (EM 360, Transasia) using Erba diagnostics kits (ERBA Diagnostics Mannheim GmbH).

4.3. Model for End Stage Live Disease (MELD) Score

The Model for End-stage Liver Disease (MELD) score was developed as a simple, and more objective hepatic score compared to Child-Pugh. It accurately predicts short-term mortality on the liver transplant waiting list, and its three variables: serum bilirubin, creatininemia, and international normalized ratio,

highlight the prognostic significance of the interactions between liver and renal functional variables in liver failure patients.

The MELD score formula is: $3.8[log_e serum bilirubin (mg/dL)] + 11.2$ [log_e INR] + 9.6 [log_e serum creatinine (mg/dL)] + 6.4.

Table. 1. Schedule of study events

So	Schedule of Events						
Activities	Screening	Enrollment	Day	Day	Day		
		Day o	30	6о	90		
Informed Consent	X						
Demographics	X						
Medical/Medication	X						
History							
Physical Examination	X		X	X	X		
Vitals	X		X	X	X		
Liver function tests	X		X	X	X		
Inclusion/exclusion criteria	X						
check							
Randomization/enrollment		X					
Recording of AEs and SAEs		X	X	X	X		
Concomitant medication		X	X	X	X		
MELD Scoring System		X			X		

4.4. Statistical analysis

Results were expressed in percentage and mean±standard deviation. Comparisons of baseline data among the two groups were performed through statistical package for social science (SPSS), software using t-test and calculated *P-values*.

5. Results

A total of 201 patients were assessed for eligibility, 133 patients were excluded because of not meeting the criteria (72) and unwillingness to participate (61) in the study. Finally, 68 patients included and were randomized into two groups. Group A received Standard therapy and Group B received standard therapy with BoozLivTM (Figure.1). The baseline characteristics are mentioned in (Table.2).

Table 2. Patient baseline demographics

PARAMETERS	GROUP A	GROUP B	P VALUE	
	(Control)	(Control + BoozLiv TM)		
Age (Years)	44.43±10.89	46.39±8.56	0.68	
Height (cm)	164.36±6.18	162.74±8.13	0.85	
Weight (Kg)	82.96±6.65	77.6±5.45	0.56	
BMI (kg/m²)	27.62±2.83	26.7±2.25	0.16	
PR (beats/min)	78.83±6.51	79.06±6.39	0.81	
Hip Circumference (cm)	36.81 ± 1.51	35.25 ± 1.60	0.22	
Waist Circumference (cm)	37.45 ± 1.55	38.23 ± 0.86	0.56	
Systolic BP (mmHg)	140.16±8.28	136.46±7.02	0.48	
Diastolic BP (mmHg)	85.73±4.94	87.4±8.52	0.24	
Total Bilirubin	02.53±0.52	2.61±0.60	0.31	
Direct Bilirubin	1.20±0.21	1.33±0.51	0.46	

P>0.05 considered as non-significant

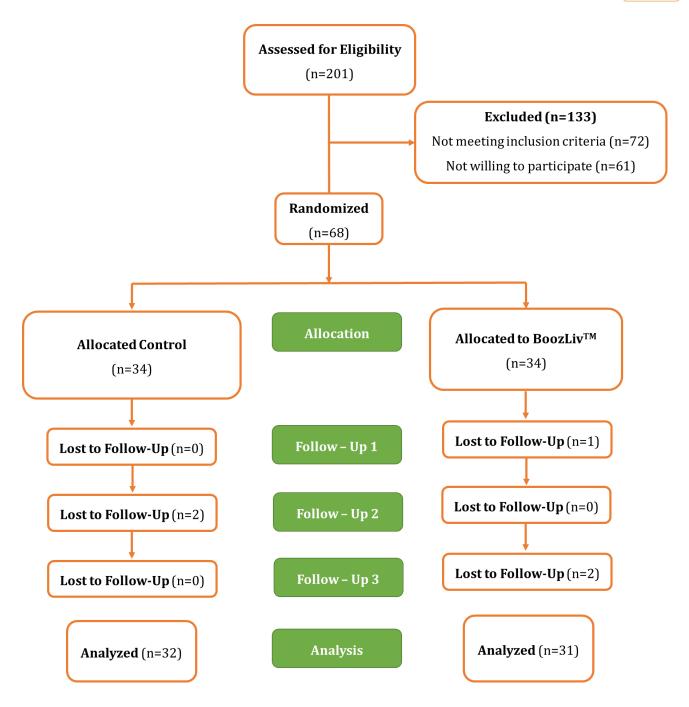


Figure 1. CONSORT flow chart

5.1. Patients Demographics

After getting informed consent, patients demographics was recorded for the both the groups. In the baseline comparison, there was no significant difference (p > 0.05) between age, BMI, pulse rate, hip circumference, waist circumference, blood pressure, total and direct bilirubin.

5.2. Effect of Control and BoozLiv[™] add-on treatment on Total Bilirubin and Direct Bilirubin

Total and direct bilirubin levels were significantly decreased from the baseline to 3rd follow-up in patient receiving BoozLivTM add-on therapy when compared to standard therapy. (Figure 2)

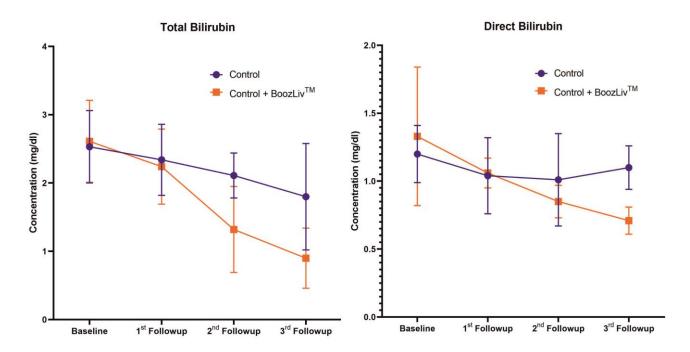


Figure 2. Comparative effect of Control and BoozLivTM add-on treatment on Total Bilirubin and Direct Bilirubin (Level of significance $P < 0.05^*$, $P < 0.01^{**}$, $P < 0.001^{***}$ and P > 0.05 considered as non-significant)

Key findings:

- ➤ BoozLivTM add-on therapy significantly reduces the elevated levels of total bilirubin, direct bilirubin, SGOT, SGPT, ALP, GGPT and albumin in alcohol associated liver disease patients
- ➤ MELD total score indicated that clinically relevant improvement in the liver function observed in BoozLivTM add-on therapy treatment
- ➤ Overall, BoozLivTM showed synergistic potential benefits in the management of liver dysfunction associated with alcoholic liver damage.
- ➤ BoozLivTM was found to be safe and was quite tolerable

5.3. Comparison of Control and BoozLiv[™] add-on treatment effect on SGOT and SGPT

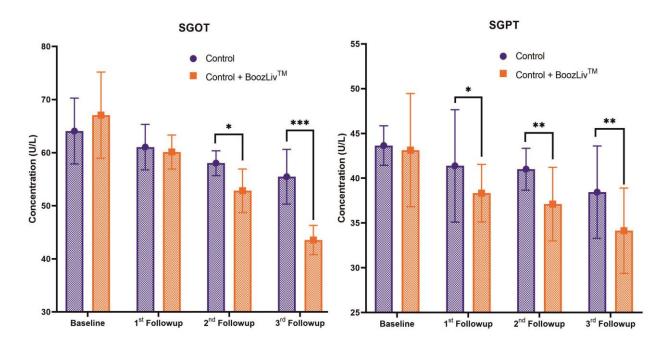


Figure 3. Effect of Control and BoozLivTM add-on therapy on SGOT and SGPT (Level of significance $P < 0.05^*$, $P < 0.01^{**}$, $P < 0.001^{***}$ and P > 0.05 considered as non-significant)

The results indicated that the BoozLivTM add-on therapy significantly reduced the elevated levels of SGPT and SGOT in patients with alcoholic liver disease when compared to standard therapy (Figure 3). BoozLivTM add-on therapy has reduced the SGPT levels from 43.14±6.32 U/L to 34.02±3.76 U/L and SGOT levels from 67.06±8.12 U/L to 43.55±2.76 U/L. (Figure 3)

5.4. Effect of Control and BoozLiv[™] add-on treatment on ALP and GGTP

ALP significantly reduced in 2nd follow-up and 3rd follow-ups in BoozLivTM group when compared to standard therapy group. GGTP shown significant difference in 3rd follow-up of BoozLivTM add-on therapy when compared to standard therapy. (Figure 4)

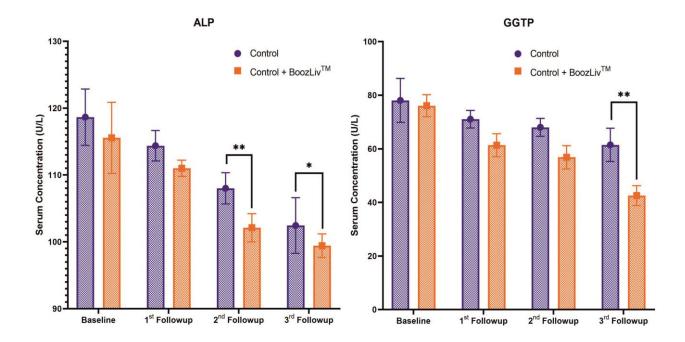


Figure 4. Comparative effect of Control and BoozLivTM add-on treatment on ALP and GGTP (Level of significance $P < 0.05^*$, $P < 0.01^{**}$, $P < 0.001^{***}$ and P > 0.05 considered as non-significant)

5.5. Influence of Control and BoozLiv[™] add-on treatment on Albumin, Globulin and Total Protein

After the 3rd follow-up, serum albumin concentration was significantly decreased in BoozLivTM add-on treatment when compared to standard treatment. No difference was found in the serum globulin and total protein after 3rd follow-up between the control and BoozLivTM add-on therapy group. (Figure 5)

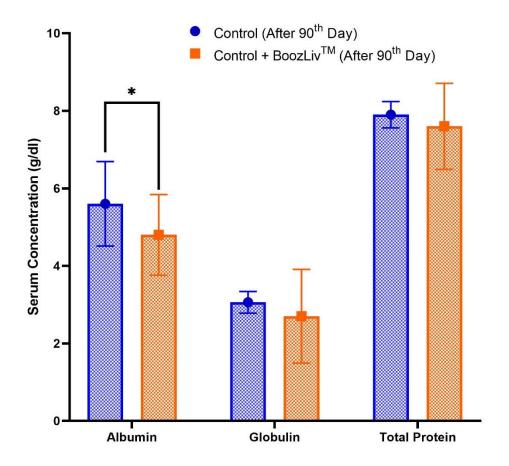


Figure 5. Effect of Control and BoozLivTM add-on treatment on Albumin, Globulin and Total Protein (Level of significance $P < 0.05^*$, $P < 0.01^{**}$, $P < 0.001^{***}$ and P > 0.05 considered as non-significant)

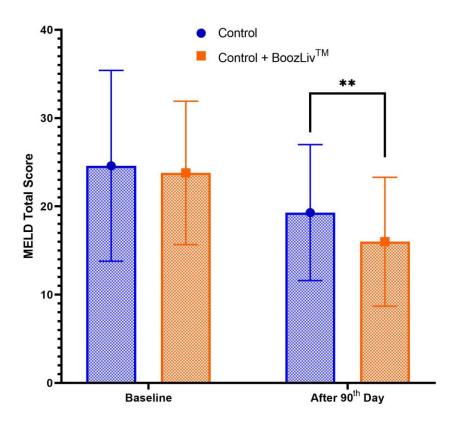
5.6. Impact of BoozLiv[™] treatment on MELD Score

Based on the results, a significant decrease (p < 0.01) in the MELD total Score was observed in the BoozLivTM add-on therapy when compared to standard treatment. This shows clinically relevant improvement in the liver function.

5.7. Safety analysis

BoozLivTM was found to be safe and was quite tolerable in most of the patients with alcoholic liver disease. The most common adverse events recorded in our study were nausea, vomiting and gastritis but no patient had withdrawn their consent from the study due to these events. All the recorded ADRs were

reported to the Pharmacovigilance centre, SRM Medical College Hospital and Research Centre periodically.



6. Conclusion

BoozLivTM add-on therapy at the dose of 10ml twice daily for 12 weeks showed remarkable improvement in the liver parameters such as total bilirubin, direct bilirubin, SGOT, SGPT, ALP, GGPT and albumin. Significant reduction in the MELD score was observed in the BoozLivTM add-on therapy when compared to standard treatment. It was relatively safe with a good tolerability profile and no SAEs attributed to BoozLivTM. However, long-term studies in a larger population should be conducted to confirm our findings in patients with mild–moderate alcoholic liver disease.

7. References

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8. Acknowledgement

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Annexure I



SRM MEDICAL COLLEGE HOSPITAL & RESEARCH CENTRE

SRM
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ETHICS CLEARANCE NUMBER: 8283 /IEC/2022

Proceeding of Institutional Ethics Committee

The Institutional Ethics Committee Discussed "Safety and efficacy of BooZLiv™ in patients with alcoholic liver disease: An open-label, randomized controlled trial" – by Mr.Balavigneshwaran, Pharm.D Student – Guided by Dr.T.M.Vijayakumar, Associate Professor & Head, Dept. of Pharmacy Practice, SRM College of Pharmacy, SRMIST on 25.03.2022 at 10.00 AM. The Ethics Committee approved the project and the progress will be reviewed periodically.

Copy to : Mr.Balavigneshwaran Member Secretary
Institutional Ethics Committee



Annexure II

Informed consent Form

Study Title:				*
Study number:				
Subject initials:	Age	:		
Subject Name:				
	reason, without my tigator and the ethics coin respect of the curre it, even if I withdraw fitty will not be revealed restrict the use of any drace in the current of the c	d have had to voluntary and medical care ommittee will not study and from the trial. d in any infor- lata or results	he opportunity to I that I am free to or legal rights b not need my perm any further resea I agree to this ac rmation released to that arise from thi	ask questions. I withdraw at any being affected. I hission to look at rich that may be coess. However I to third parties or
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Signatory name:		-		
Signature of the investiga	ator	Date	:	
Study investigator name:	<u> </u>			
Signature of the witness:				
Date:				
Name of the witness:	¥7			

Annexure III

நோயாளியின் ஒப்புதல் படிவம்

ஆராய்ச்சியின் எண்:

ஆராய்ச்சியின் பெயர் :						
ஆய்வுக்கு உட்படுவரின் பெயர்						
எனக்கு இந்தச் சோதனையின் அனைத்து விவரங்களும் என் மொழியில்						
விளக்கப்பட்டது. இந்த சோதனையை நன்கு புரிந்துகொண்டேன். ஆகவே இந்தச்						
சோதனைக்கு உட்பட என்னுடைய விருப்பத்தை உறுதிப்படுத்துகிறேன்.						
இந்தச்சோதனையில் என்னுடைய சொந்த விருப்பத்தில் பங்கேற்கிறேன். இதிலிருந்து எந்தக்						
காரணமும் கூறாமல் எப்போது வேண்டுமானாலும் விலகிக் கொள்ளலாம் என அறிவேன்.						
அறிவியல் நோக்கங்களுக்காக மட்டுமே இந்த ஆய்வின் தரவுகள் அல்லது முடிவுகள்						
பயன்படுவதை கட்டுப்படுத்தமாட்டேன் என உறுதி கூறுகிறேன். இதன் வாயிலாக இந்த						
சோதனையில் ஒர் அங்கமாக இருக்க என்னுடைய முழு ஒப்புதலையும் அளிக்கிறேன்.						
நேரயாளியின் கையொப்பம் / நடுநிலைச் சாட்சியின் கையொப்பம் கட்டை விரல் ரேகைப் பதிவு						
நாள்:						
கையொப்பதாரரின் பெயர் :						
ஆய்வாளரின் கையொப்பம் :						
ஆய்வாளரின் பெயர் :						
நடுநிலைச் சாட்சியின் பெயர் :						
 நோயாளி கல்வியறிவு பெறாதவராக இருக்கும் பட்சத்தில் நடுநிலைச் சாட்சியின் கையொப்பம் தேவைப்படுகிறது. நடுநிலை சாட்சி நோயாளியின் தகவல் படிவம் மற்றும் நோயாளியின் ஒப்புதல் படிவத்தை நோயாளிக்குப் புரியும் மொழியில் படித்துக் காட்ட வேண்டும். 						

Annexure IV



Version-1.2

SUSPECTED ADVERSE DRUG REACTION REPORTING FORM

For VOLUNTARY reporting of Adverse Drug Reactions by Healthcare Professionals

INDIAN PHARMACOPOEIA COMMISSION								F	OR AMC/N	ICC USE O	NLY						
(National Coordination Centre-Pharmacovigilance Programme of India) Ministry of Health & Family Welfare, Government of India							AMC Report No. :										
Sector-23, Raj Nagar, Ghaziabad-201002							_										
Report Type Initial Follow up											e Unique						
A. PATIENT INFORMATION									12. R	eleva	nt tests/	laboratory d	ata with dat	es			
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B. SUSPECTED ADVERSE REACTION 5. Date of reaction started (dd/mm/yyyy)															sfunction etc.)		
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constitute an admission that medical personnel or manufacturer or the product caused or contributed to the reaction.

Annexure V

CLINICAL TRIALS REGISTRY - INDIA

ICMR - National Institute of Medical Statistics



PDF of Trial CTRI Website URL - http://ctri.nic.in

Clinical Trial Details (PDF Generation Date :- Tue, 18 Apr 2023 10:43:12 GMT)

CTRI Number Last Modified On Post Graduate Thesis

Type of Trial Type of Study

Study Design **Public Title of Study**

Scientific Title of Study

Secondary IDs if Any

Details of Principal Investigator or overall **Trial Coordinator** (multi-center study)

CTRI/2022/08/044978 [Registered on: 26/08/2022] - Trial Registered Prospectively 25/08/2022 Yes Interventional Drug Randomized, Parallel Group, Active Controlled Trial Effect of BooZLiv in patients with alcoholic liver disease Safety and efficacy of BooZLiv in patients with alcoholic liver disease : An open-label, randomized

controlled trial Secondary ID Identifier NIL NIL

	Details of Principal Investigator
Name	Balavigneshwaran A
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Details Contact Person (Scientific Query)

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Name	Dr A Priyadharshini				
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	Fax								
	Email vijaypractice@yahoo.com								
Source of Monetary or Material Support			ource of Monetary	or Material Support					
	> MMC Pharmaceuticals	MMC Pharmaceuticals Ltd							
Primary Sponsor	Primary Sponsor Details								
	Name MMC Pharmaceuticals Ltd								
	Address		No.113, Visalakshi Chennai, Tamil Na	St, Devikarumariamman Nagar, Valasaravakkam, du 600087					
	Type of Sponsor		Pharmaceutical ind	lustry-Indian					
Details of Secondary	Name			Address					
Sponsor	NIL			NIL					
Countries of	List of Countries								
Recruitment	India								
	Name of Principal Investigator	Nam	ne of Site	Site Address	Phone/Fax/Email				
	DR Rajesh N A		M Medical College	Department of	9629006644				
		Hosp Cent	pital Research tre	Gastroenterology, Medical Gastroenterology,4th floor Kancheepuram	rajesha@srmist.edu.in				
		<u> </u>		TAMIL NADU					
Details of Ethics Committee	Name of Committee	Арр	roval Status	Date of Approval	Is Independent Ethics Committee?				
	SRM Medical college hospital and research center	Appı	roved	25/03/2022	No				
	Status			Date					
Status from DCGI	Not Applicable			No Date Specified					
Health Condition /	Health Type			Condition					
Problems Studied	Patients			Alcoholic liver disease, unspecified					
Intervention / Comparator Agent	Туре		Name	Details					
Inclusion Criteria			Inclusio	n Criteria					
	Age From		18.00 Year(s)						
	Age To		60.00 Year(s)						
	Gender		Both						
	Details	1.Adults aged over 18 years with the evidence of alcoholic liver disease (ALD) based on a thorough history, physical examinati and laboratory tests and all of the following: - 2.Chronic alc intake, Identified with AUDIT(Alcohol Use Disorder Inventory To Questionnaire - 3.Active alcohol use until 4 weeks prior to presentation - 4.ALT and AST elevated >1.5 times the upper of normal - 5.5 ratio of AST to ALT - 5.7 ratio of AST to ALT - 5.8 ratio alcoholic liver disease.							
Exclusion Criteria			Exclusio	n Criteria					
	Details 1. Severe alcoholic hepatitis with cirrhosis 2. Severe renal impairment 3. Participants with active viral hepatitis 4. Pregnant, attempting to conceive, or lactating women								



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Method of Generatin Random Sequence	g Computer generated randomization								
Method of Concealment	Sequentially numbered, sealed, opaque envelop	Sequentially numbered, sealed, opaque envelopes							
Blinding/Masking	Not Applicable	Not Applicable							
Primary Outcome	Outcome Timepoints								
	Liver function test Complete blood count Prothrombin time MELD Score	baseline to 30th day ,60th day and 90th day							
Secondary Outcome	Outcome	Timepoints							
	Adverse events SF-12 Questionnaire	After the completion of treatment							
Target Sample Size	Total Sample Size=60 Sample Size from India=60 Final Enrollment numbers achieved (Total)=Applicable only for Completed/Terminated trial Final Enrollment numbers achieved (India)=Applicable only for Completed/Terminated trial								
Phase of Trial	Phase 4								
Date of First Enrollment (India)	01/09/2022								
Date of First Enrollment (Global)	No Date Specified								
Estimated Duration of Trial	Years=0 Months=9 Days=0								
Recruitment Status (Trial (Global)									
Recruitment Status of Trial (India)	Not Yet Recruiting								
Publication Details	Not applicable								
Brief Summary	COLUCTON								
*BooZi	JvMM alterbal oral formulation can be given as a supplemental								
	therapy in patients with alcoholic liver disease.								
*The H	rense enemo or into une formulation has Anti-custain, replantsprosective and appetite stimulating properties; improves the fiver function and overall health	зовым от не ривето							
• PI	repensils anisum (Anise) used for the reduction of ansaurus and assists of hepatic origin, and also for the healtheast of chronic, enlarged, liver.								
• Ai	gife membabi (nivery) is propularly used as a cardiotrics, it is also considered to be useful in the teatment of liver disorders. If a considered is a considered to be useful as a stomachic, choicests and also be the control of naucea and vinithing.								
•Th	is formulation has also been reported to protect the liver against hepsitotalism such as alcohol, CCH and other heavy metals.								
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s.org-	term exclass alcohol exposure leads to alcoholic liver disease (ALD)-a global health problem without effective therapeutic approach.								
*ALD R	increasingly considered as a complex and multicoded pathological process, involving solidaries stress, inflammation and excessive total synthesis.								
*The u	se of allemative medicine such as herbal medicines, phytorublents, syuvedic products and nutraceuticals used widely by the majority of the patients for v	arious health challenges around the world.							
*An esi	itination if 80 % of the world population depends on herball products a first line therapy for the literas.								