



Dayanand Education Society's

DAYANAND COLLEGE OF PHARMACY

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- 1) Ms. Satpute Kranti. L Faculty of Dayanand College of pharmacy, Latur completed her PhD research work “**Clinical study of polyherbal formulation**” at Manjara Charitable Trust's Late Babruwan Vitthalrao Kale (Manjara) Ayurved Medical College & Hospital, Latur.
- 2) Ms. Yelmate A.A Faculty of Dayanand College of Pharmacy, Latur completed her PhD research work “**Antibacterial and Skin irritancy study of novel polyherbal gel formulation**” at Manjara Charitable Trust's Late Babruwan Vitthalrao Kale (Manjara) Ayurved Medical College & Hospital, Latur.


IQAC Co-ordinator
IQAC Co-ordinator
Dayanand College Of Pharmacy
LATUR




Principal
Dayanand Education Society's
Dayanand College of Pharmacy
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मंजरा चॅरिटेबल ट्रस्ट संघर्षित

कै. अबुब्रान विठ्ठलराव काले



Manjara Charitable Trust's

Late Babruwan Vitthalrao Kale

आयुर्वेद वैद्यकीय महाविद्यालय व रुग्णालय, लातूर

Ayurved Medical College & Hospital, Latur

बस स्टॅण्ड पाठीमागे, गांधी मैदान, लातूर - ४१३ ५१२

Behind Bus Stand, Gandhi Maidan, Latur - 413 512

☎ : कॉलेज-२४४६७७, २४७६७७, फॅक्स : (०२३८२) २४४६७७

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रुग्णालय-(०२३८२) २४४८०२

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Ref. No. BVKAMCH/LA-81/2019

certificate

Date: 5/2/19

This is to certify that the research work of Ms Satpute K.L. on antiacne activity of polyherbal Cream & Facewash and skin irritation has been approved by our institutional ethical committee. This work has been successfully done.


H.O.D/Professor
AYURVEDIC MEDICAL COLLEGE
& HOSPITAL, Latur


PRINCIPAL
Late. Babruwan Vitthalrao Kale
Approved Medical College & Hospital, Latur

Clinical study: Clinical study access a new molecule to check its efficacy in the treatment of diseases. In order to conduct the clinical trial it is necessary to perform preclinical studies in terms of *in-vitro* antimicrobial and *in-vivo* anti-inflammatory study using carrageenan induced rat paw edema method of final optimized polyherbal formulation. Clinical studies answer whether this treatment is safe and effective for bacterial skin diseases.

The aim of this study was to evaluate the safety and efficacy of using a polyherbal formulation for the treatment of bacterial skin infections. This polyherbal formulation gel was found to be effective in the treatment of eczema and cellulitis.

Total 30 patients presenting with bacterial infections cellulitis and eczema from Manjra hospital were included in this trial. There were 16 no females and 14 No of males aged between 20-60 years who were prescribed with the prepared polyherbal gel formulation and advised to apply the medication topically twice in a day for three weeks regularly. They were advised to attend OPD for follow up every week and immediately if any allergic reaction observed. The patients were observed for symptomatic relief after every week. The skin lesions were assessed by observation for the different signs like papules, vesicles, redness, swelling, inflammation.

The final population was about 30 persons out of which 16 male and 14 female populations who have passed through skin irritation test. The mean age of patients selected for treatment 22.25 years respectively.

Results showed that there was a gradual decrease in the sign and symptoms of cellulitis and eczema from first week onwards. At the end of the trial patients with cellulitis and eczema showed significant decrease in the skin lesions. The results from this study were encouraging. Symptoms started reducing from the second week onwards and results were clearly visible at the end of third week. Most of the patients were revealed of the symptoms. The ingredients of the formulation probably have antimicrobial, anti-inflammatory and antioxidant properties. The combined action promoted rapid healing of the skin lesions in eczema and cellulitis. There were no adverse effects seen in any of the patients.

Chapter 4

Results of clinical study:

Sr.no	Before Treatment	After Treatment
1	 <p data-bbox="261 863 672 905">Cellulitis: Before treatment</p>	 <p data-bbox="883 863 1268 905">Cellulitis: After treatment</p>
2	 <p data-bbox="261 1671 456 1705">Eczema: Before</p>	 <p data-bbox="907 1633 1081 1667">Eczema: After</p>

Chapter 4

The majority subjects commonly reported no skin irritation on the skin and hence formulation was tolerable and did not show any adverse reaction or irritation to the skin of the patients. All the patient's (volunteers) were satisfied with the treatment of developed polyherbal formulations and no one subjects step out from the study.

The details of subject's (thirty patients) with their name and disease conditions are as follows.

Patients details about EASI Score: Table 4.90

Sr.No.	OPD No.	Name of Patients(volunteers)	Age	Sex	EASI Score Before	EASI Score 1 st follow up	EASI Score 2 st follow up	EASI Score 3 st follow up
1	14479	BMS	50	Female	3	2	1	1
2	14493	AMB	40	Female	2	2	2	0
3	14517	MRA	45	Female	2	2	1	1
4	14631	WSV	28	Female	3	3	2	0
5	14635	PNP	40	Female	3	3	2	1
6	14627	SSS	22	Male	2	3	2	1
7	14736	NAV	28	Female	3	3	3	2
8	14493	BSA	35	Male	2	3	2	1
9	14501	KSR	38	Male	2	2	2	1
10	14508	WBG	28	Female	3	3	3	2
11	14480	AMB	40	Female	3	3	2	2
12	14485	SSS	28	Male	1	1	1	0
13	14481	APB	32	Female	2	2	2	1
14	14633	WGV	34	Male	3	3	2	1
15	14626	MNA	33	Male	3	3	2	0
16	14629	KSV	24	Female	3	3	2	1

Chapter 4

17	14757	KSP	50	Female	3	3	2	2
18	14752	YSA	26	Male	2	2	1	0
19	14748	SSS	35	Male	2	2	1	1
20	14744	KAS	30	Male	2	2	1	0
21	14741	APB	30	Female	3	3	2	0
22	14913	CAV	50	Male	3	3	3	2
23	14909	MAN	39	Female	3	3	2	0
24	14903	KCS	22	Male	3	3	2	2
25	14893	KPG	22	Male	1	1	1	1
26	15073	MVB	35	Female	2	2	2	0
27	15070	NSP	31	Female	1	1	1	0
28	15067	CSR	40	Female	2	2	1	0
29	15064	BSS	23	Male	3	3	2	0
30	15060	MRP	32	Female	3	3	3	2

Table: 4.90 shows EASI score of patients before treatment and after various follow up

Table: 4.91EASI score of patients before treatment and after various follow up (Mean± SD)

Sr. no.	Name of Name of Patients(volunteers)	EASI score (Mean± SD)
1.	BMS	1.33±0.481
2.	AMB	1.33±1.154
3.	MRA	1.33±0.481
4.	WSV	1.66±1.527
5.	PNP	2.00±1.00
6.	SSS	2.00±1.00
7.	NAV	2.66±0.577
8.	BSA	2.00±1.00
9.	KSR	1.66±0.577
10.	WBG	2.66±0.577
11.	AMB	2.33±0.577

12.	SSS	0.66±0.577
13.	APB	1.66±0.577
14.	WGV	2.00±1.00
15.	MNA	1.66±1.527
16.	KSV	2.00±1.00
17.	KSP	2.33±0.577
18.	YSA	1.00±1.00
19.	SSS	1.33±0.577
20.	KAS	1.00±1.00
21.	APB	1.66±1.527
22.	CAV	2.66±0.577
23.	MAN	1.66±1.527
24.	KCS	2.33±0.577
25.	KPG	1.00±0.00
26.	MVB	1.33±1.154
27.	NSP	0.66±0.577
28.	CSR	1.00±1.00
29.	BSS	1.66±1.52
30.	MRP	2.66±0.577

Table 8.4 shows CASS score of patients before treatment and after various follow up (Mean± SD) p<0.000 Figure: 4.87: Clinical study of formulations.

Figure: 4.87: Clinical study of formulations.

मांजरा चॅरिटेबल ट्रस्ट संचलित

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A. O. & Hospital Superintendent,
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Ref. No. **BVMAMCH / Ltr./344 /2020**

Date : 01/10/2020

To.

Ms. Yelmate Archana Ashok,
Research scholar, Channabasweshwar
College of pharmacy, Latur.

Subject: - Regarding Completion Certificate of Research Work.

Ref: - Principal Channabasweshwar college Letter 19/08/2020

This is to certify that the research work of Ms. Yelmate Archana Ashok, research scholar, Channabasweshwar college of pharmacy, Latur. on **Antibacterial activity of and skin irritation effect of developed polyherbal formulation** has been approved by our institutional ethics committee. This work has been successfully done. Under the guidance of Dr. Narhare Maruti T. as working MOU is their between two Institute.

Thanking You.

PRINCIPAL
Late. Babruwan Vitthalrao Kale
Ayurved Medical College & Hospital, Latur.