

# Utility of Homoeopathic Medicines in Cases of “Cutaneous Suppuration (Boils & Abscess)” from Knerr’s Repertory

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## ABSTRACT

**BACKGROUND** – In today’s world bacterial infections are increasing so fast all over the world. One of the results of these bacterial infections is Boils, Abscesses and Suppurative tendencies. The present study shows the efficacy of Homoeopathic medicines in Cutaneous Suppuration to prevent surgical interventions.

**AIM & OBJECTIVE** - The Objective was to ascertain the role of Homoeopathic medicines in cutaneous suppuration (Abscess & Boils) with the help of Knerr’s repertory edited by P. Sivaraman. With research question will the Homoeopathic medicines useful in cutaneous suppuration specially in cases of Boils and Abscess?

**MATERIAL & METHOD** – Random sampling method was done with fulfilment of inclusion and exclusion criteria. Data collection was done with the Personal Interview Method According to guidelines given in Organon of medicine. Knerr’s Repertory was chosen for Repertorization on HOMPAT Zomeo V.3.0 with specially Prepared Case Performa and Scoring systems were selected as tools for data collection. Potency Selection, Repetition and Follow ups were decided according to need of particular case of Suppuration.

**STATISTICAL ANALYSIS** - Paired t- test was done in Microsoft Excel using Pre- Treatment and Post-Treatment Score from Specially Prepared Scoring System.

**RESULT** – In the study most cases were seen of male sex and mostly medium potency (200) was used.

**CONCLUSION** – This study has concluded that Homoeopathic medicines are useful in treating suppuration with indicated medicines without any surgical interventions.

**KEYWORDS:** *Suppuration, Homoeopathy, Abscess, Boils, Repertory*

## INTRODUCTION AND REVIEW

**Suppuration** is a process in which tissue and inflammatory exudates are liquified by the action of pyogenic organisms, and it is a common result of microbial inflammation. According to **Merriam-Webster Dictionary**; “suppuration is the formation of or conversion into, or process of discharging pus.” Suppuration can be seen in the form of abscesses, boils, folliculitis, pimples and furuncles.

India has hot climate and, is developing country. Here middle and lower socio-economical people are more in number than higher class population. There are also less hygienic conditions of people having various

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infectious conditions like furuncles, abscesses, etc. In modern science its treatment is to give various antibiotics of higher generations. Haphazard use of antibiotics leads to multi drug resistance. In addition, antibiotics may harm the normal flora of the intestinal bacteria which are necessary for the gut.

Homoeopathy is one of the branches of medical science where people are treated with gentle way. Homoeopathy has capacity to treat the suppurative cases in their earlier phase with the help of medicines and advance cases of suppuration are also treatable under the domain of homoeopathy.

There are many pathological conditions which are not limited to the only one part but can affect the different tissues of our body, and in homeopathic literature they are categorized under pathological generals. Suppuration is one of the pathological conditions which is not limited to particular tissue only but can affect the different parts of body.

Pathological generals were first used by Dr. C.M. BOGER. Boger emphasized certain tendencies of the tissues and propensity to certain types of abnormal changes as an important feature aiding in the selection of similar remedy.

## MATERIALS AND METHODS

### STUDY SETTING: -

PROJECT SITES: - 1) Smt. S. I. Patel (Ipcowala) Homoeopathic Hospital – Shree Dr. V. H. Dave Homoeopathic medical college, Anand, Gujarat. 2) Borsad Rural O.P.D 3) Sarsa Rural O.P.D  
 STUDY DURATION: - 6 Months  
 STUDY DESIGN: - Analytical & Prospective Interventional study  
 SELECTION OF SAMPLE: - Sampling method: - Random sampling. Sample size: - 50

**RESULT** - Following data were observed during study.

### Observation 1:

Out of total 50 (100%) cases, Maximum no. of cases from 11 to 20 years of age group followed by 31 to 40 years of age group. This is seen in table no. 1.

**Table no. 1**

AGE GROUP	NO. OF CASES	PERCENTAGE
0 to 10	05	10%
11 to 20	13	26%
21 to 30	08	16%
31 to 40	11	22%
41 to 50	05	10%
51 to 60	03	06%
61 to 70	04	08%
71 to 80	01	02%
TOTAL	50	100%

### Observation 2:

In the study, 24 (48%) were Female Patients and 26 (52%) were male. This is seen in table no. 2

**Table no. 2**

SEX	NO. PATIENT	PERCENTAGE
Female	24	48%
Male	26	52%
Total	50	100%

### Observation 3:

In this study out of 50 (100%) cases, 6 (12%) Patients with were Abscess, 23 (46%) patients were with Boil, 15 (30%) Patients with pustular eruption, 3 (6%) with Suppurative Discharge, 3 (6%) with Suppurative tendency were diagnosed. This is seen in table no. 3.

**Table no. 3**

DIAGNOSIS	NO. OF PATIENTS	PERCENTAGE
Abscess	6	12%
Boil	23	46%
Pustular eruption	15	30%
Suppurative discharge	3	6%
Suppurative tendency	3	6%
Total	100	100%

**Observation 4:**

As Shown in table, different remedies were Prescribed during study to treat suppurations. The Maximum no. of cases were treated with Arnica Montana (6 cases) Hepar sulph. (6 cases) followed by Opium (4 Cases) and Lachesis (4 cases) were observed.

**Table no. 4**

Medicine	No. of cases	Medicine	No. of cases
Angustura vera	3	Lachesis	1
Apis Mellifica	3	Mercurius solubilis	3
Arnica Montana	4	Muriatic Acid	1
Belladonna	6	Nitric Acid	2
Calcarea carbonicum	1	Nux vomica	1
Crocus sativus	6	Opium	1
Hepar sulphuricum	2	Pulsatilla nigricans	2
Hyoscyamus niger	2	Rhus Toxicodendron	1
Iodium	4	Secale cornuatum	1
Kalium bichromicum	1	Silicea terra	1
Kalium iodatum	2	Sulphur	1
Tarentula cubensis	1		

**Observation 5:**

In below table with data presentation, 30<sup>th</sup> potency was given in 15 cases, 200<sup>th</sup> potency in 32 cases and 3 cases with 1M potency. In this study, out of 50 cases, the highest results (3 cases) were obtained in 1M potency with all cases cured when potency indicated. Followed by 30<sup>th</sup> potency with 8 cured cases and 6 cases showed significant improvement. While, under the 200<sup>th</sup> potency 13 cured cases and 19 showed significant improvement. Only 1 case with Moderate Improvement under 30<sup>th</sup> potency.

**Table no. 5**

Potency	Cure	Significant improvement	Moderate improvement	Total
30	8	6	1	15
200	13	19	0	32
1m	3	0	0	3
Total	24	25	1	50

- **Statistical Analysis:** pre post treatment score was analysed with using paired t- test.
- The study “**TO STUDY THE UTILITY OF RUBRIC “SUPPURATION” FROM CHAPTER “GENERALITIES” OF KNERR’S REPERTORY (AUGMENTED & REVISED EDITION) EDITED BY P. SIVARAMAN IN CASES OF ABSCESS AND FURUNCLES**” deals with following aspects:
  - **Research Question:**  
Will the rubric “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman useful in cases of abscess and boils?
  - **Research hypothesis:**
    - *Null hypothesis* - There will be no usefulness of rubrics related to “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils.
    - *Alternative hypothesis* - There will be usefulness of rubrics related to “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils.

Here as above the Research Hypothesis could be mentioned in following

Null hypothesis: -  $H_0$

Alternative hypothesis: -  $H_1$

- **Null hypothesis:**

Here we have to test first null hypothesis in the study,

Null hypothesis: -  $H_0$

Where,  $H_0$  means  $d = \mu_1 - \mu_2 = 0$ ,

D= difference

$\mu_1$ = Pre – treatment score

$\mu_2$  = post-treatment score

Above formula suggests that there is no difference between the Pre- treatment Score and Post-treatment Score.

So, here null hypothesis is accepted.

➤ **Alternative Hypothesis:**

Where,  $H_1$  means  $d = \mu_1 - \mu_2 \neq 0$

Here there may be 2 possibilities are there,

1)  $d = \mu_1 > \mu_2$  ( $\mu_1$  greater than  $\mu_2$ )

2)  $d = \mu_1 < \mu_2$  ( $\mu_1$  lesser than  $\mu_2$ )

Here, D = difference

$\mu_1$ = Pre – treatment score

$\mu_2$  = post-treatment score

• Above formula suggests that there is difference between the Pre- treatment Score and Post-treatment Score.

• The Pre-treatment and Post treatment scores of the study i.e., “**TO STUDY THE UTILITY OF RUBRIC “SUPPURATION” FROM CHAPTER “GENERALITIES” OF KNERR’S REPERTORY (AUGMENTED & REVISED EDITION) EDITED BY P. SIVARAMAN IN CASES OF ABSCESS AND FURUNCLES**” are mentioned in the following table:

Case no. (According to master-chart)	Pre-treatment Score ( $\mu_1$ )	Post-treatment Score ( $\mu_2$ )	D= ( $\mu_1 - \mu_2$ ) Or X= ( $\mu_1 - \mu_2$ )	(X- $\bar{X}$ )	(X- $\bar{X}$ ) <sup>2</sup>
1.	8	2	6	-0.3	0.09
2.	11	6	5	-1.3	1.69
3.	7	1	6	-0.3	0.09
4.	6	2	4	-2.3	5.29
5.	10	3	7	0.7	0.49
6.	10	2	8	1.7	2.89
7.	9	2	7	0.7	0.49
8.	11	3	8	1.7	2.89
9.	10	2	8	1.7	2.89
10.	6	2	4	-2.3	5.29
11.	9	0	9	2.7	7.29
12.	9	3	6	-0.3	0.09
13.	7	3	4	-2.3	5.29
14.	6	3	3	-3.3	10.89
15.	6	3	3	-3.3	10.89
16.	10	4	6	-0.3	0.09
17.	10	2	8	1.7	2.89
18.	9	3	6	-0.3	0.09
19.	11	2	9	2.7	7.29
20.	8	3	5	-1.3	1.69
21.	12	4	8	1.7	2.89
22.	6	2	4	-2.3	5.29
23.	9	0	9	2.7	7.29
24.	6	2	4	-2.3	5.29

25.	11	2	9	2.7	7.29
26.	9	2	7	0.7	0.49
27.	7	2	5	-1.3	1.69
28.	8	2	6	-0.3	0.09
29.	10	4	6	-0.3	0.09
30.	8	2	6	-0.3	0.09
31.	10	2	8	1.7	2.89
32.	10	5	5	-1.3	1.69
33.	11	3	8	1.7	2.89
34.	10	2	8	1.7	2.89
35.	8	0	8	1.7	2.89
36.	7	0	7	0.7	0.49
37.	6	2	4	-2.3	5.29
38.	5	2	3	-3.3	10.89
39.	11	2	9	2.7	7.29
40.	7	2	5	-1.3	1.69
41.	8	4	4	-2.3	5.29
42.	7	2	5	-1.3	1.69
43.	6	2	4	-2.3	5.29
44.	6	1	5	-1.3	1.69
45.	9	2	7	0.7	0.49
46.	9	2	7	0.7	0.49
47.	13	2	11	4.7	22.09
48.	11	2	9	2.7	7.29
49.	5	2	3	-3.3	10.89
50.	9	0	9	2.7	7.29
Total	427	112	$\sum D$ or $\sum X$ =315		$\sum (X-\bar{X})^2$ =200.5

Here, Statistical Significance of the study was carried out in 2 Methods.

1. Statistical t-Test: Paired Two Sample for Means - Manually using following formula

$$A. t = \bar{X}/S_D/\sqrt{n}$$

Where,  $\bar{X}$ = the mean Difference

$S_D$ = Standard deviation

n= Sample Size

2. Statistical t-Test: Paired Two Sample for Means- using Microsoft Excel

### 1. STATISTICAL T-TEST: PAIRED TWO SAMPLE FOR MEANS - MANUALLY USING FORMULA

2. **Null and Alternative Hypothesis:** Null and Alternative Hypothesis as mentioned above. Here, before test we are accepting Null hypothesis i.e. There will be no usefulness of rubrics related to "SUPPURATION" from chapter "GENERALITIES" of Knerr's repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils.

### B. Standard error of the mean of difference

1. n= 50

2. ( $\mu_1$ ) =Pre-treatment Score

3. ( $\mu_2$ ) =Post treatment Score

4.  $\bar{X}$  or D= Mean Difference

5.  $\sum X$ = Total Mean Difference

➤ The mean Difference

$$\bar{X} = \sum X/n$$

$$=315/50$$

$$=6.3$$

$$\sum (X-\bar{X})^2 =200.5$$

➤ The estimate of population standard deviation is given by

$$\begin{aligned} S_D &= \sqrt{\sum(X-\bar{X})^2 / n-1} \\ &= \sqrt{200.5/50-1} \\ &= \sqrt{200.5/49} \\ &= \sqrt{4.083673} \\ &= 2.022827 \end{aligned}$$

➤ The estimate of standard error of mean =  $SD/\sqrt{n}$

$$\begin{aligned} &= 2.022827/\sqrt{49} \\ &= 2.022827/7 \\ &= 0.28897 \end{aligned}$$

### C. Critical Ratio

$$\begin{aligned} t &= \bar{X}/S_D/\sqrt{n} \\ &= 6.3/0.28897 \\ &= 21.80157 \end{aligned}$$

### D. Comparison with table value:

This critical ratio, t follows a distribution with n-1(49) degrees of freedom. As a rule, for t –distribution with degree of freedom not in the table, use the table row corresponding to the next lowest number (i.e., 48 for 49 degrees of freedom). 5% level is 2.011 and 1% level are 2.682 for 48(49 for study) degrees of freedom. Since the calculated value 21.80157 is greater than the tabled value at 5% and 1% level, **hence the null hypothesis is rejected.**

### 3. STATISTICAL T-TEST: PAIRED TWO SAMPLE FOR MEANS - USING MICROSOFT EXCEL

**A. Null and Alternate Hypothesis:** Null and Alternative Hypothesis as mentioned above.

➤ Here, **before test we are accepting Null hypothesis** i.e. There will be no usefulness of rubrics related to “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils.

**B. When theoretically tested,** criteria for acceptance and rejection of hypothesis were applied to Null and Alternative Hypothesis then Null Hypothesis is rejected as there was a difference between Pre and Post Treatment score. ( $H_0$  means  $d = \mu_1 - \mu_2 = 0$  is rejected and  $H_1$  means  $d = \mu_1 - \mu_2 \neq 0$  is accepted.)

**C. Now this Hypothesis testing was done with statistical technique p value followed by t-test (t-Test: Paired Two Sample for Means) in Microsoft Excel.**

➤ As study show, 2 Value as Pre and Post treatment score then on the basis of statistical principles, Paired- t test is suitable for calculation using Symptoms Scores(Pre and Post).

➤ Before applying Student t test, p value/Probability testing is essential for acceptance and rejection of null hypothesis.(p value was  $\leq 0.05$  selected as base value for interpretation of test)

### SUMMARY OUTPUT

<i>Regression Statistics</i>					
Multiple R	0.30164				
R Square	0.09099				
Adjusted R Square	0.07205				
Standard Error	0.86511				
Observations	50				
<i>ANOVA</i>					
	<i>Df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	3.59584871	3.59584871	4.804587775	<b>0.033266899</b>
Residual	48	35.92415129	0.748419819		
Total	49	39.52			
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	
Intercept	1.19839	0.543886367	2.203381639	0.032399571	
Pre-treatment Score	0.13539	0.061765402	2.191936991	<b>0.033266899</b>	
<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>		
0.10483242	2.29195	0.10483242	2.291946048		
0.01119821	0.25957	0.011198208	0.259573533		

- There is a Significant Positive relationship between the Pre and Post Treatment Score,  $r(48) = 0.30$ ,  $p = 0.033266$  ( $r$ -Multiple R, 48 is degree of freedom in regression method.)
- Here in this test,  $p$  value is 0.033266 which is smaller than 0.05 and this result suggest the strong probability to reject null hypothesis. This result supports the result of theoretical testing.
- *Null hypothesis* - There will be no usefulness of rubrics related to “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils. **(REJECTED)**
- *Alternative hypothesis* - There will be usefulness of rubrics related to “SUPPURATION” from chapter “GENERALITIES” of Knerr’s repertory (Augmented & Revised edition) edited by P. Sivaraman in cases of abscess and boils. **(ACCEPTED)**
- So, here Null hypothesis is rejected and Alternative hypothesis is selected to apply further statistical calculations.
- So, with acceptance of Alternative Hypothesis we can apply Student t test for further analysis.

t-Test: Paired Two Sample for Means		
	Pre-treatment	Post-treatment
Mean	8.54	2.24
Variance	3.967755102	1.410612245
Observations	50	50
Pearson Correlation	0.271902922	
Hypothesized Mean Difference	0	
Df	49	
t Stat	22.02248907	
P(T<=t) one-tail	2.28498E-27	
t Critical one-tail	1.676550893	
P(T<=t) two-tail	4.56996E-27	
t Critical two-tail	2.009575199	

- Here, Means of Pre- and Post- treatment scores are respectively 8.58 and 2.36. So, mean difference between this variable(Pre and Post Treatment Score is as follows,
- Mean difference of Pre-Score - Mean Difference of Post Score i.e.,  $8.54 - 2.24 = 6.3$  (Mean Difference)

**D. Here, value of Mean Difference and t stat value using Manual Formula and Microsoft Excel is similar and nearly similar respectively.**

Application Method of t-test	Mean Difference between Variable(Pre and Post Treatment score)
Manually using Formula	6.3
Microsoft excel	6.3

Application Method of t-test	t- stat value
Manually using Formula	21.80
Microsoft excel	22.02

- E. Apart from Mean Variable, Calculation of Microsoft Excel shows values of the  $p$  (Pearson Correlation) as well as  $t$  –one tail and  $t$ -two tail also.

t Stat	22.02248907
P(T<=t) one-tail	2.28498E-27
t Critical one-tail	1.676550893
P(T<=t) two-tail	4.56996E-27
t Critical two-tail	2.009575199

- F. In above table the value of  $t$  stat is greater than the values of one tail and two tail values. This significant difference shows the effectiveness of Homoeopathic Medicines.

**G. So, it can be considered as a Verified as well as Extended result of Manual method.**

## Inference:

- Value of Mean Difference in Pre and Post treatment Score shows that the decreased in Post treatment value due to action of Homoeopathic medicines. Result of p value and t test also support the alternative Hypothesis. These all data suggest, Effectiveness of Suppuration rubric from Knerr's repertory in treatment of suppurative tendencies as well as Abscess and boils.

## DISCUSSION

- In this study Random sampling with 50 sample sizes were taken and analysed.
- In this Study 50 cases were included with randomized sampling and Prescription of each case, eliminating rubrics related to Suppurative characteristic were taken in highest value to verify that corresponding rubrics. Observations and results of collected data were in following way.
- Most of the cases were seen in the age group 11-20 that suggest the hormonal changes and life style pattern during this era and male sex having slightly more Predominance than female sex.
- Most of cases are cured in this study, 1M potency was more effective in curing the cases while 200<sup>th</sup> and 30<sup>th</sup> were more cases with improved state. This suggests that with high potency and high susceptibility there will be more possibility to abort inflammation at initial level before it could develop in to the Suppurative phase.
- During the study, frequently prescribed medicines were Arnica Montana and Hepar sulphuricum on the result of medicine prescribed, this study was also verifying the following keynotes of medicines from Allen's keynotes and characteristics with Comparison.

## CONCLUSION

This study helps to verify the Effectiveness of Homoeopathy in treating Suppuration Cases with functional changes as well as Secondary changes like Indurations and Scar. This study also helps to verify the general characteristics of medicine when prescribed on the basis of concept of Hahnemannian totality.

## FURTHER RECOMMENDATION:

This is study of only 50 sample sizes on randomize collection. So, more the sample size with clinical trial and RCT (randomized control study) will be helpful to get more specify results.

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