



Comparative Study Of Different Susceptibilities Exhibited By Provers To A Single Potency Of Drug Administered During Drug Proving

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Abstract-

Background: Drug proving is the method to ascertain the curative power of drug in healthy human beings, in both sexes, in various ages, in different constitutions. In drug proving a drug is given to different provers in same quantity and quality for a period of time. During the process of drug proving the prover develop the symptoms which are appearing on the individual susceptibility of the prover.

Methods: Guidelines issued by the Central Council for Research in Homoeopathy New Delhi will be taken as a base for planning this study. Drug proving is done by Draysdale's Double blind method. - Drug proving is done on both the sex; Age group of 18 to 45 years, Prover should be educated up to 7th STD. 40 provers from different fields. **Results:-** All provers (100%) with high susceptibility responded to Calcarea flour 30 with production of symptoms, while only 33.33 % provers with low susceptibility produced symptoms, validating the role of susceptibility in response to dynamic Homoeopathic medicines. **Conclusion:** - After going through above all discussion we come to the final conclusions about the role of susceptibility and sensitivity of provers during the placebo and Calcarea Flour 30. The ability to respond to Calcarea Flour 30 is directly proportional to pre trial state of susceptibility. Response to placebo is having no variation as per pre trial state of susceptibility with provers from all 3 categories of susceptibility responding in equal percentage. Hence response to placebo is not governed by state of susceptibility. It may be more related to suggestibility of provers.

Key word: Susceptibility & sensitivity, provers, location, intensity of symptoms, placebo, doses, Duration of response,

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Introduction-

Susceptibility is the inherent capacity of all human beings to react stimuli. Every

individual has individual susceptibility.

Susceptibility differs according to age, sex and environment. Susceptibility is responsible for

particular form reactivity exhibited by the cell in response to various inputs received from the environment. Drug proving is the method to ascertain the curative power of drug in healthy human beings, in both sexes, in various ages, in different constitutions.

Every individual possesses its own susceptibility to react to the external influence. In environment someone's meat becomes someone's poison according to his susceptibility.

Susceptibility represents the internal immunity to react to external stimuli. Every individual has susceptibility of different level. When a stimulus is given to a person he will react according to the susceptibility of that individual.

Susceptibility is inborn in nature it is present in body since time of birth but it will develop according to which circumstances the person is born and brought up. Susceptibility varies in degree in different patients and at different times in same patient.

Objectives:-

1. To know the susceptibility of different provers based on their responses observed during drug proving.
2. To elicit symptoms from provers and recording of the symptomatology in a standard format.
3. To observe evolutionary symptomatology during drug proving from the perspective of
 - Repetition of doses required for initiation of symptoms

- Duration of action
 - Various tissues involved and
 - Common and characteristic symptoms
4. To observe the differences in the intensity, frequency and duration of responses of different provers to the same potency according to their susceptibility

Methodology

Sources of Data :-Guidelines issued by the Central Council for Research in Homoeopathy New Delhi will be taken as a base for planning this study.

Volunteers like college students, teaching, non-teaching staff and students of Dr. M. L. Dhawale Memorial Homoeopathic Institute, Palghar and other colleges in the vicinity.

1. Method of collection of data :-

- Drug proving is done by Draydsdale's Double blind method.
- We give proper understanding of the drug proving and its procedure to prover.
- We provide proper knowledge about Homoeopathy. What is Homoeopathy, its principle, its methodology, purpose of drug proving, importance of drug proving, restriction during drug proving and their doubts must be clear if any.
- Volunteers have to sign the consent form and should go through the rules and regulation of drug proving.
- Screening should be done of all provers and thorough examination

should be done before trial and after completion of drug proving.

- Day book have to be provide to every prover.

2. Study Design:-

Double blind trials:- experiments in which neither the proving conductor nor the provers know whether a specific medicine is tested or a placebo.

3. Administration of Drug :-

- Administration of coded drug.
- 4-6 globules of coded drug on dry tongue/ dissolved in a little quantity of water 4 times a day for a fortnight.
- Drug administration should be suspended as first change in health is noted,
- Drug administration should be suspended till the symptom disappears with a rest of 14 days.
- After rest drug administration continue as above.
- There should be a rest period of 14 days.
- Prover will be called every weekly and if between a prover find any difficulty they can contact to know sign and symptoms in L, S, M, C, to know its intensity, its extension, duration, frequency.
- Volunteers should be educated about to note down if any change they observed in their normal health.
- There should be proper contact with master prover about how proving is going on and its progress.

- Provers write the sign and symptom in their own language.
- During proving prover should not take raw onion or garlic and strong coffee.

4. Criteria To Assess Susceptibility:-

- According to AGE
- According to SEX.
- Constitution.
- Time taken by prover to produce 1st symptom after administration of dose.
- Duration of response
- Intensity and frequency of symptom.
- Location involved
- Common or characteristic Nature of symptoms.
- Evolutionary Sequence

Inclusion Criteria:-

- Drug proving is done on both the sexes.
- Age group of 18 to 45 years.
- Prover should be educated up to 7th STD.

Exclusion Criteria:-

- Proving should not be done on individual who is under treatment by any pathy.
- Proving should not be done in children, in mentally challenged person, in deaf and dumb person.
- Prover should not have any kind of alcoholic, tobacco or narcotic drug addiction.

Results:-

All provers (100%) with high susceptibility responded to Calcarea flour 30 with production of symptoms, while only 33.33 %

provers with low susceptibility produced symptoms, validating the role of susceptibility in response to dynamic Homoeopathic medicines.

Characteristic Observations-

In Calcarea flour 30 around 21 provers had developed symptoms out of which 3 provers had high susceptibility, 17 provers had

moderate susceptibility and 1 prover had low susceptibility in pre-trial assessment. In Placebo round 20 provers had developed symptoms out of which 2 provers had high susceptibility, 16 provers had moderate susceptibility and 1 prover had low susceptibility.

Correlation between Pretrial Assessment of Susceptibility And Response To Administration Of Placebo And Calc. Fl. 30

Pri-trial Susceptibility		Placebo	Percentage	Cal. Flo. 30	Percentage
High	3	2	66.6666667	3	100
Moderate	24	16	66.6666667	17	70.83333333
Low	3	2	66.6666667	1	33.33333333

Table no. 1 Correlation b/w Pretrial assessment

Graphical presentation:-

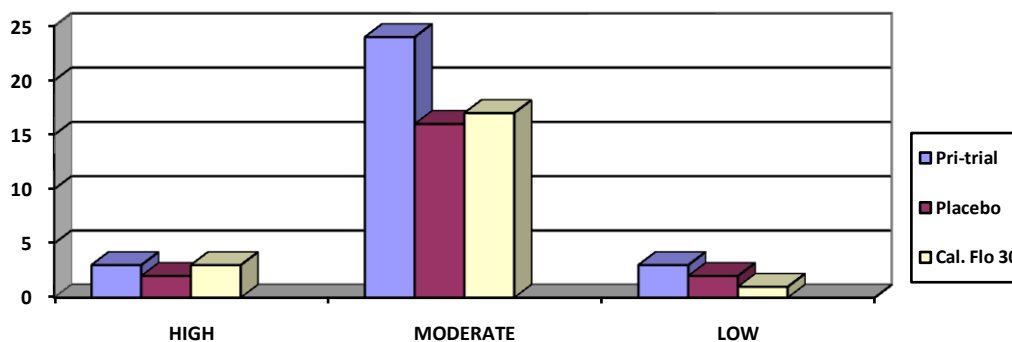


Fig. No. 1- Bar presentation of correlation b/w Pretrial assessment and response to administer placebo and Clac. fl 30

Sample Of Prover:-

Pre-Trial Symptom Classification of the Prover’s Case

Proving Code No.P-1

Age: 25 years Sex: male Education: M. D. Part 2 Occupation: Student

Physical Appearance: Lean, thin, short heighted, fair complexion

Headings	Symptoms
Pre-disposition – F/H	Grandfather - 80yrs. Expired due to old age. Grandmother -Hypertension, O.A Hip Joint Uncle-Depressive Psychosis & Chronic Eczema.

	Aunt- D.M. & HTN
	Father- 54yrs. Chronic Eczema Mother-46yrs. Nutritional Anaemia
	Sister- 21yrs. O.C.D. Cousin- 31yrs. Chronic Eczema
Pre-disposition – P/H	Secondary infected Eczema in 2007 for 1 yr. treated homoeopathically. Seborrhic dermatitis in last winter.
	Bilateral Mumps in 1996 treated homoeopathically.
Functional Phase	Chronic constipation.
Structural Phase	Chronic secondary infected eczema- reversible Seborrhic dermatitis
Physical Types	Perspiration - Moderate, on face+2, axilla+2
	Cr. – Ice-cream 3+, sweets3+, lemonade2+.
	Av. – Spicy2+, banana+.
	Stool – Brown, offensive, once/day, satisfactory
	Ambithermal – Chilly
Cause	
Aggravations in General	
Ameliorations in General	
Sensation and Complaints in General; Pathological General; Sleep	Sleep- 7-8hrs. On abdomen, sound & deep.
Sex	Masturbation- 1-2/wk.
Mental state: Emotional, Intellectual and Behavior; and Dreams	Anger Suppressed+3
	Sadness+2 when things or plan expected not fulfilled. Used to think for 1-2hrs. Can weep but rarely shows. Used to feel alone and doesn't like company. Modesty and helping desire to when sad. Talks slowly and behaves very nicely & silently. Used to last 1-2days. Never tells anyone.
	Love +2 Can't show anyone. Love animals in perspective of natures need & security will protect them if necessary.
	Hate - Avoids hating anyone. But hates a person who goes against the societies rules to the extreme and can't justify himself. Cut the relationship.
	Fear - if done a major mistake but it is very transient and disappears within a minute and then there is no fear. Can show false courage inspite of having fear

	inside.
	Anxiety+ Appearing on public, stage. Trembling, palpitation, perspiration, hesitation, dryness of mouth will last for 1-2hrs. Or if felt I will never show it to anyone and always show courage.
	Intellectual State:- Memory- sharp Thinking – Active, logical Confidence- shaky Perception- clear Decision – hasty
	Dreams – of previous house, school, friends, events+ -Horrible dreams like going in jungle, catching snakes+2 Prover’s interpretation- 1.Relatives , old relatives—I maintains relations as long as possible & used to visit all old places & wanted to not to break any relationship with anybody who is connected with me deeply. Interpretation- 2. I like adventures and risk likes catching snakes. I don’t fear at all in spite of not knowing much about the things.
Characteristic Particular	C/o1. Chronic constipation since 20 yrs. Stool- Large, soft, occ. Hard, brown colored, offensive. Freq. - 1/day or two days. Satisfactory. Stool urging after large accumulation with offensive flatus +2 & eructation +2. Mild pain in hypogastrium during stool ameliorates after stool. No other specific modalities.
	2._Seborrhic dermatitis since 2-3yrs. On abdomen & upper extremities. Increased peeling of skin epidermis & dandruff++. No itching/burning. <winter3+, >summer 3+.
	3._Graying of hair since 11yrs. Increasing slowly.
	O/E.: -Nose- DNS on Right side. Lymph nodes- one left cervical infra auricular L.N. palpable.

ROUND 1

Location	Sensation	Modalities	Conco	Day Of Appear	Doses	Date & Time Of Appear	Time & Date Of Disappear
Eyes, Rt.	Itching2+	Not amelioration By rubbing		6th day	22 doses	13/03/11, 5pm	18/03/11, 6pm
	Lachrymation+	< Light+					
	Burning 2+ without redness						
	constant rubbing 2+						
	dryness sensation+						
	photophobia2+, even cannot look						

	at bright light or computer.						
Eyes, Lt.	Itching2+	< 6am+		7th day	25 doses	14/03/11, 9am	18/03/11, 6pm
	Lachrymation+						
	Burning 2+						
	Constant rubbing 2+						
	Dryness sensation+						
	Photophobia2+, even cannot look At bright light or computer.						

Round 2:-

Medicine had not produced any symptoms in the prover.

Assessment of susceptibility:-

Criteria for assessment of susceptibility	Pre-trial assessment	Placebo	Calcarea flour 30
Susceptibility	Moderate	Moderate	Low
Pace of Disease	Moderate	Moderate	Nil
Location Involved	Skin, Rectum	Eyes	Nil
Intensity of Symptoms	Mild	Moderate	Nil
Duration of Response		2 days	Nil
Pathology	Reversible	Reversible	Nil
No. of Characteristic Particular Symptoms	++	Nil	Nil
No. of Physical General		Nil	Nil
Sensitivity	High	Moderate	Low
No. of Mental symptoms	Qualified mentals +++	Nil	Nil
Dreams	Specific Dreams++++	Nil	Nil
Sensitivity at Nerve	++	Mild	Nil
Pain and other sensation	Nil	Nil	Nil

- All provers (100%) with high susceptibility responded to Calcarea flour 30 with production of symptoms, while only 33.33 % provers with low susceptibility produced symptoms, validating the role of susceptibility in

CONCLUSION:-

After going through above all discussion we come to the final conclusions about the role of susceptibility and sensitivity of provers during the placebo and Calcarea Flour 30 rounds.

response to dynamic Homoeopathic medicines.

- The ability to respond to Calcarea Flour 30 is directly proportional to pretrial state of susceptibility.
- Response to placebo is having no variation as per pretrial state of susceptibility with provers from all 3 categories of susceptibility responding in equal percentage. Hence response to placebo is not governed by state of susceptibility. It may be more related to suggestibility of provers.
- Moderate susceptible provers in pre-trial assessment required more repetition of doses to develop symptoms in Placebo and Calcarea flour 30 rounds compared to provers with high susceptibility. But strangely provers with low susceptibility required fewer doses than the other two categories.
- No definite correlation can be established between state of susceptibility and duration of response.
- No definite correlation can be established between state of susceptibility and production of characteristic symptoms.
- No definite correlation can be established between state of susceptibility and intensity of symptoms.
- Provers with high and moderate sensitivity responded similarly to Placebo as well as to Calcarea Fluor 30 and the difference in percentage of response are not statistically significant.

- Provers with high sensitivity in pre-trial assessment required more repetition of doses to develop symptoms when dynamic medicinal substance is administered as compared to Placebo.
- Provers with moderate sensitivity in pre-trial assessment required less repetition of doses to develop symptoms when dynamic medicinal substance administered as compared to Placebo.
- High sensitive provers in pre-trial assessment had more duration of response to Placebo and Calcarea Flour 30 compared to provers with moderate sensitivity.

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