

To Study The Different Clinical Condition Of Drugs Of Solanaceae Family**Dr. Harshada Gorhe****Abstract**

The Solanaceae is a large varied family of trees, shrubs & herbs including 90 genera & more than 2000 species. Solanaceae is known for possessing a diverse range of alkaloids. Therapeutically these are most powerful known anticholinergic in existence, meaning they inhibit neurological signals transmitted by the endogenous neurotransmitter, acetylcholine. Medicinally important species of solanaceae family belongs to following genera namely: solanum, capsicum, hyoscyamus, atropa, datura, nicotiana & miscellaneous. These species are extensively used for medicinal purpose throughout the country. The Solanaceae family is characteristically ethno botanical, that is extensively used by humans. It is important source of food, spice & medicine. However Solanaceae species rich in alkaloids whose toxicity to humans & animals ranges from mildly irritating to fatal in small quantities. **Methods:** Simple randomized sampling with 30 cases in which patients were enrolled till the target was achieved. The patients were selected on the inclusion and exclusion criteria. Patients were considered on the basis of clinical presentation. All cases were taken as per the case record format prepared for the study. Prescription of each case was based on the symptom similarity of medicine of Solanaceae family. Outcome was assessed as a recovered, improved & not improved. **Results:** All 30 cases were studied after administration of homoeopathic remedy from Solanaceae family out of this, 28 cases improve and 2 cases were not improved. **Conclusion:** In this study it is found that homoeopathic remedy Belladonna of Solanaceae family covers the most clinical condition than other remedies of Solanaceae family.

Keywords:

Solanaceae family, Clinical condition, Homoeopathy

Introduction:

The name "Solanaceae" derives from genus solanum "The Nightshade plant". The etymology of the Latin word is unclear. The name could originate from the Latin verb Solare, meaning to "to soothe", presumably referring to the soothing pharmacological properties of psychoactive species of the family. The most economically important genus of the family is 'solanum' which contains potato, tomato, & eggplant. The another important genus is capsicum, produces both chili peppers & bell peppers.

Nicotiana contains among other species, like tobacco. Some other important members of Solanaceae include sources of psychoactive alkaloids like Datura, Atropa belladonna, & these species are widely known for their medicinal uses, their psychotropic effects or being poisonous. The Tobacco used as model organisms in the investigation of fundamental biological question at the cellular, Molecular

& genetic level. Solanine, Scopolamine, Atropine, Nicotine & Hyoscyamine these are the Alkaloids of Solanaceae family.

Despite the extreme toxicity of the tropanes, they are important drugs when administered in appropriate dosage. They can reverse the cholinergic poisoning which caused by overexposure to Pesticides & chemical warfare. Scopolamine, a commonly used ophthalmological agent, dilates the Pupils & thus facilitates the examination of internal eye. They can also be used as antiemetic's in People prone to motion sickness or receiving chemotherapy.

Thus, if we study the Solanaceae family as a whole, we will have a sound knowledge of Characteristics of these remedies which will give us a theme to understand each remedy very easily.

Material and Method

- **Type of study design:-** A case series study
- **Study Setting:-** The cases will be collected from
 1. College OPD
 2. Peripheral OPD
 3. Private OPD
 4. Guide's OPD & Hospitals
- **Study Population:-** The patient with present sign & symptoms of drugs of Solanaceae family.
- **Sample size:-** 30
- **Sampling Technique:-** Simple random technique
- **Method Of Selection Of Study Subjects**

Inclusion Criteria:-

- The sample collected from both sexes.
- The cases with similar clinical condition like that of Solanaceae family.

Exclusion Criteria:-

- Severe pathological cases who depend on a conservative line of treatment.
- **Withdrawal criteria:-**
 - If patient is irregular for the follow ups.
- **Operational Definition-** When then patient has narrated specific sign and symptoms of belonging to solanaceae family will be taken.
- **Method of selection of comparison/ control group:** - Not applicable.
- **Matching criteria:** - Not applicable.
- **Study instruments/ data collection tools:-**
 - History taking
 - Case recording format
 - Homoeopathic Materia Medica
- **Methods of measurements:-**

- No scale is used in this study.
- Result of the study is based on presenting complaints during the follow up.

➤ **Method for data collection:-**

- Informed consent of the patient will be taken.
- A questionnaire will be used to record the name, age, sex, detailed history of complaints, Locality, family history, drug history, occupational history & associated symptoms.
- The each patient will go under detailed general, physical, systemic examination.
- The diagnosis will be made on clinical grounds & relevant investigations will be done Wherever necessary.

➤ **Data management & analysis procedure:-**

- Patient will be selected on the basis of inclusion & exclusion criteria, clinical presentation & history.
 - The potency selection & repetition 8.
- **Recovered:-**Total relief of all signs & symptoms after administration of remedy from Solanaceae family till the end of the study.
- **Improved:-**Partial relief of sign & symptoms after administration of remedy from Solanaceae family till the end of the study.
- **Not Improved:-**No relief of sign & symptoms after administration of remedy from Solanaceae family till the end of the study.

➤ **Plan for Statistical Analysis:-**

The result will be verified by the use of standard test as per the need of study.

➤ **Data analysis plans & method:-**

The related theoretical & laboratory data from different sources will be collected & analyzed to research standards according to the type of data using different methods of analysis.

➤ **Ethical Issues:-** The ethical clearance had been obtained from the institution.

Observation And Results

CHARTS/FIGURES/DIAGRAMS

TABLE NO 1. GENDER WISE DISTRIBUTION IN CASE STUDY

SR.NO	GENDER	NO OF CASES	PERCENTAGES
1.	FEMALE	12	60%
2.	MALE	18	40%

PIE CHART

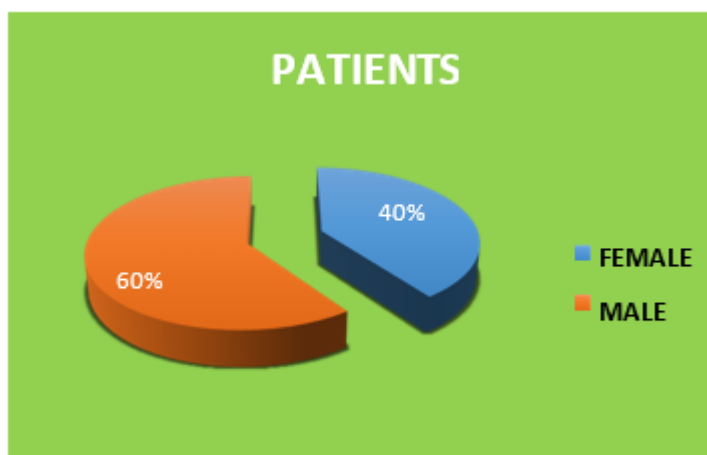


FIG 1: GENDER WISE DISTRIBUTION

In 30 Number Of Cases 12 Are Female Patient & 18 Are Male Patient

TABLE NO 2. RELIGION WISE DISTRIBUTION IN CASE STUDY

SR. NO	RELIGION	NO OF CASES	PERCENTAGES
1.	HINDU	27	90%
2.	MUSLIM	3	100%

PIE CHART

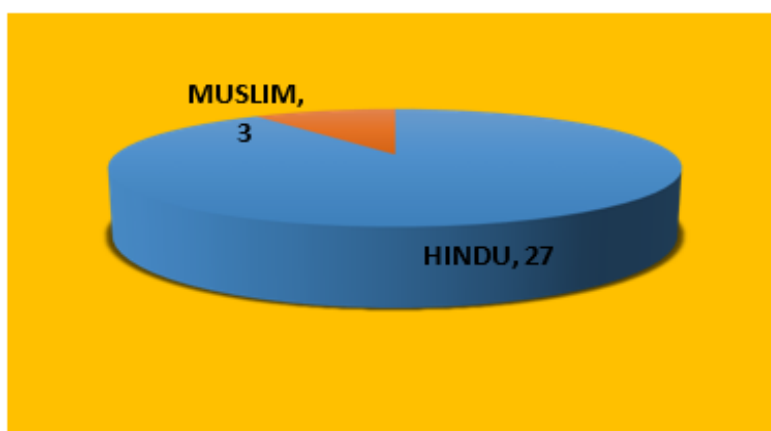


FIG 2: RELIGION WISE DISTRIBUTION

In 30 number of cases 27 are Hindu patients & 3 are Muslim Patient

TABLE NO 3. AGE DISTRIBUTION IN CASE STUDY

SR. NO	AGE GROUP	NO PATIENT
1.	10-20	5
2.	21-30	10
3.	30++	15

BAR DIAGRAM

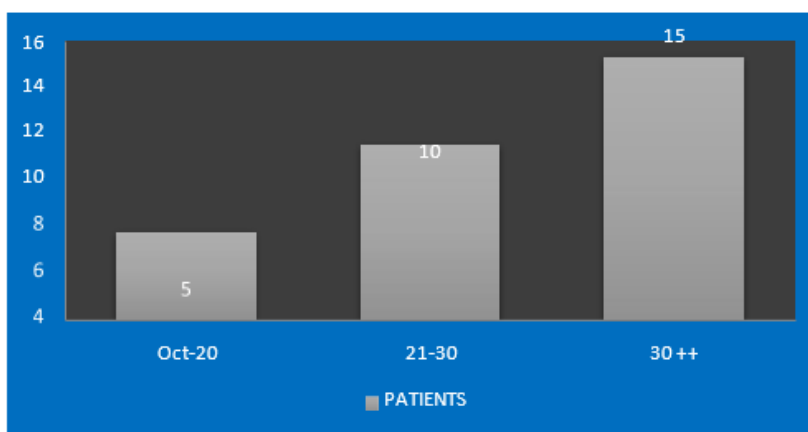


FIG 3. AGE DISTRIBUTION IN CASE STUDY

In 30 number of cases 5 patients come under the 10-20 age group 10 patients come under the age 21-30group & remaining 15 patients come under the above 30 age group.

TABLE NO.4 RESULT IN CASE STUDY AFTER HOMOEOPATHIC PRESCRIPTION

SR. NO	POTENCY USED	NO OF CASES	PERCENTAGES
1.	RECOVERED	0	0%
2.	IMPROVED	28	93%
3.	NOT IMPROVED	2	7%

PIE CHART



Discussion:

Total 30 patients were observed for the study. The outcome of the study is discussed below: Out of 30 cases, 18 were male and 12 were female. Out of 30 cases, 5 cases were from 10-20 years of age group, 10 cases were from 21-30 years of age group, 15 cases were above 30 years of age group. Out of 30 cases, 28 cases improved after medicine prescribed from the Solanaceae family.

Conclusion:

The following valid conclusion can be drawn from this study:

As far as religion is concern 90% of patients were Hindu & remaining 10% of patients Were Muslim. The maximum incidence of patients suffering from different clinical Condition is in the age group of above 30 years. After homoeopathic prescription from Solanaceae family 28 cases were improved & 2 cases not improved. Out of 30 cases 18 Cases received Belladonna from Solanaceae family & rest of other cases receive other Remedies from Solanaceae family. From this it is conclude that Belladonna is the remedy Which covers most clinical condition than other remedies of Solanaceae family.

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