

Pratinidhi Dravya

Concept of प्रतिनिधि द्रव्य

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Introduction

- ▶ प्रतिनिधि (substitute) :- means to use in place of something else, with the same function & properties.
- ▶ **Definition :-** प्रतिनिधि द्रव्य (substitute drugs) are those dravyas which can be used in place of अभाव द्रव्य, having similar properties.

Cntd...

- ▶ Shortage of Dravya



Pratinidhi Dravya



- ▶ Unavailability of dravya



Why this concept came ?

► Due to:-

1. Unavailability of raw drugs.
2. Due to personal benefits.
3. Shortage of raw drugs.
4. Extinction of same plant species. etc

मधु यत्र न विद्येत तत्र जीर्णो गुडो मतः । पुरातनगुडाभावे रौद्रे यामच्चतुष्टयम् ॥
संशुष्य नूतनं ग्राह्यं पुरातनगुडैषिणा । क्षीराभावे भवेन्मौद्गो रसो मासूर एव वा ॥ (वै.परि.प्र)

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Madhu	Purana guda
Purana Guda	Nava guda by keeping under hot sun for 4 yama
Kshira	Mudga/ Masura rasa

Cntd....

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
शर्करा	खण्ड शर्करा
शाली धान्य	शष्ठी शाली
द्राक्षा	गंभारी फल
दाडिम	वृक्षाम्ल
सौम्य सपिण्ड	सम्य सपिण्ड

Cntd...

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Tagara mula	Sihali mula (Bombax malabarica)
Sweta Sarshapa	peeta sarsapa
Cavya & Gajapippali	Pippalimula
Pippalimula	Cavya & Gajapippali
Varahi Kanda	Carmakaralu
Munjataka	Talamastaka

Cntd..

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Kesara	Haridra
Karkatasrngi	Mayambu
Dhanyaka	Satapushpa
Varahi kanda	Carmakaralu
Murva	Manjistha twak
Puskaramula	Kustha

Cntd....

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Kustumburu	Dhanyaka
Bhalataka (असह्य)	Rakta chandana
Yasthimadhu	Cavya
Cavya	Musali
Kutaja twak	Musali roots

Cntd..

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Rasana	Bandakam
Jiraka	Dhanyaka
Tumburu	Sali dhanya
Bhallataka	Rakta chitraka mula
Ativisha	Musta

Cntd....

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Ikshu	Nala
Sukta	Kanji
Chitraka mula	Danti mula/ Apamarga Ksahra
Dhanvayasa	Duralabha
Jatipuspa	Lavanga
Arka dugdha	Arka patra swarasa
Sweta chandana	Karpura

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Haratiki	Amalaki
Yastimadhu	Dhataki puspa
Kasturi	Gandha shati
Jeevaka	Guduchi
Rishabhaka	Vansha lochana
Riddhi	Bala mula
Vriddhi	Mahabala
Kakoli , Ksheera kakoli	Shatavari
Meda	Ashvagandha
Mahameda	Anantamula(Sariva)

रस औषधिय प्रतिनिधि द्रव्य

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Louha	Mandura
Mukta	Mukta Sukti
Samudra & Saindhava lavana	Vida lavana
Swarna	Swarna makshika
Swarna /Rajata	Loha
Hiraka(Vajra)	Varatika

Cntd....

अभाव द्रव्य (Unavailable drugs)	प्रतिनिधि द्रव्य (Substitute drugs)
Swarna makshika	Swarna gairika
Parada bhasma	Rasa sindura
Kanta loha bhasma	Teekshna loha bhasma
Go dugdha	Aja dugdha etc

Liberty to substitute the unavailable drugs

यत्र यद् द्रव्यमप्राप्तं भेषजे परपूर्वतः ।

ग्राह्यं तद्गुणसाम्यात् तु न तत्र क्वापि दूषणम् ॥

१३०॥

(वै.परि.प्र.)

- ▶ Liberty to substitute.
- ▶ Substituted drug should have similar properties.
- ▶ Should not affect the therapeutic properties of the formulations.

Unavailability of untold
substitute drug

अन्यापि यानीह रसायनादौ योगे च वस्तूनि च
कीर्तितानि ।

तेषामलाभेन च वृद्धवैद्य-प्रसिद्धितस्तानि
हरन्ति वैद्याः ॥

(Ref:- V.Pra. Pra- 131)

- Accd to the advice of vrddha vaidya.
(Experienced physicians or apta.)

Unavailability of substitute drugs:

अत्र प्रोक्तानि द्रव्याणि यानि तेषु च तेषु च ।
योज्यमेकतराभावेऽपरं वैद्येन जानता ॥ १३२ ॥
रसवीर्य विपाकाद्यैः समं द्रव्यं विचिन्त्य च ।
युञ्ज्यात्तद्विधमन्यच्च द्रव्याणां तु रसादिवित् ॥ १३३ ॥
(वै.परि.परि.)

- Another drug with similar therapeutic actions (Rasa ,Guna , Virya, Vipaka, Prabhava etc.) can be selected.

Pradhana & Apradhana dravya

योगे यदप्रधानं तस्य प्रतिनिधिर्मतः ।

यत्तु प्रधानं तस्यापि सदृशं नैव गृह्यते ॥

(वै. परि. प्र-

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- ▶ Pradhana Dravya - should not be substituted
- ▶ Apradhana Dravya- can be substituted.

Factors to be considered for selection of *Pratinidhi Dravya*

- ▶ Uncertain identity
- ▶ Regional substitutes
- ▶ Non-availability of the drug
- ▶ Seasonal availability of the part
- ▶ Shelf life of the drug
- ▶ Ambiguity due to synonym.
- ▶ Cost of the drug
- ▶ Preparation form of the drug
- ▶ Geographical distribution of the drug

Cntd...

- ▶ Conclusive aspects for regional substitution
- ▶ Indications and contra indications of the drug
- ▶ Usage of synthetic material

1.Uncertain identity

For example:

- ▶ Substitution for *Ashtavarga Dravyas*
 - ▶ *Jivaka, Rushabhaka - Vidarikanda. (Pueraria tuberosa)*
 - ▶ *Meda, Mahameda - Shatavari. (Asparagus racemosus)*
 - ▶ *Kakoli, Kshirakakoli - Ashwagandha. (Withania somnifera)*
 - ▶ *Ruddhi, Vridhi - Varahikanda. (Dioscorea bulbifera)*

2.Regional substitutes

Rasna

- ▶ *Pluchea lanceolata* - Asteraceae - Punjab and Gujarat
- ▶ *Alpinia galanga* - Zingiberaceae - South India
- ▶ *Vanda roxburghii* - Orchidaceae - Bengal

Shankhampuspi

- ▶ *Clitoria ternatea* - Papilionaceae - Kerala
- ▶ *Evolvulus alsinoides* - Convolvulaceae - North India
- ▶ *Canscora decussata* - Gentianaceae - In some other regions

3. Non-availability of the drug

- ▶ *Talisa patra* (*Abies webiana* Lindl - Pinaceae)-
leaf of the *Taxus baccata* Linn. - Taxaceae are used

4. Seasonal availability of the part

► Example :-

Rakta Punarnava (Boerhaavia diffusa)

= *Shweta Punarnava (Trianthema portulacastrum)*

5.Shelf life of the drugs

- ▶ *Purana Guda* (old jaggery)

- *Guda* (jaggery) should be taken by heating it in sun rays for 12 hrs.

6.Ambiguity due to synonym

► Example :-

Jivanti - *Guduchi, Abhaya, Meda, Kakoli, and Vrikshadani* .

7. Cost of the drug

- ▶ Rasna *moola* value in the market is near about 700 Rs per kg instead of that pharmacies are using leaf of *Rasna*.
- ▶ *Kumkuma* = *Kusumbha* .

8.Preparation form of the drug

- ▶ *Yogaratanakara* suggests that substitution can be done in the form preparation in case of unavailable prepared material and which can be used in emergency conditions.

For example:-

- ▶ *Guduchi Sattva =Guduchi Swarasa*

9. Geographical distribution of the drug

- ▶ Geographical variations of some plants like :- Example :- *Vatsanabha* (*Aconitum ferox*) are available in *Himalaya*, which are not found in Southern parts of India.

Example:- *Calotropis procera* - Asclepiadaceae is not available in Kerala, where *Calotropis gigantea* - Asclepiadaceae is commonly seen in south India.

10. Conclusive aspects for regional substitution

To avoid the controversy of the drugs, *Raj Nighantu* finds mid-way, as he mentioned varieties of *Rasna*:-

- ▶ Mula (*Pluchea lanceolata*),
- ▶ Patra (*Vinca rosea*) and
- ▶ Truna (*Vanda roxburghii*)

11. Indications and contra indications of the drug

► For example,

Vasa - Rakta-Pittahara , but due to its abortifacient activity its utility in pregnant women is limited.

Laksha and *Ashoka* can be substituted.

12. Usage of synthetic material

For example,

- ▶ Camphor (*Cinnamomum camphora* - Lauraceae) and
- ▶ *Vamsarochana* (*Bambusa arundinacea* - Gramine)

Advantages of pratinidhi dravyas

- ▶ Helps a physician to prepare medicine in time.
- ▶ Fullfills the demand of consumers .
- ▶ Helps when seasonal & geographical changes affect the drug availability.

Disadvantages of pratinidhi dravyas

- ▶ Commercial purpose some adopt the shortcuts by means of pratinidhi dravyas.
- ▶ Decrease the therapeutic properties of the formulation.

Conclusion

- ▶ Substitute drugs have a better scope in today's era where shortage of drugs happens when demand of drugs increases.
- ▶ Main dravya should not be substituted from the formulation.
- ▶ Pratinidhi dravya should be selected on the basis of their similar properties.
- ▶ According to Geographical & seasonal changes pratinidhi dravya also changes.
- ▶ So, Vaidya should always use his own yukti in the selection of pratinidhi dravya.

THANK YOU.....