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# Srotogamitva and drug delivery system a conceptual study

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#### Abstract

SrotoGamitva refers to channelization or movement of substance through different channels of the body. Gamitva is a Sanskrit word made from Gama Dhatu which shows action of going on a particular site. Srotas serve as site of product delivery on to the local on of need. SrotoGamitva of Aahar dravya ensures movement of Aahar through Annavaha srotas (Digestive system) which signify normal Sharir kriya (physiology) of the body .Movement of Rasa Rakta through human body also signifies SrotoGamitva. For this movement Vata dosha is responsible. Vitiated vata dosh will cause excessive movement of sara and kitta (essential and nonessential)substances of body. Dravyaguna (Indian Pharmacology) we need to put light on single drug and its

panchabhautik constituent and binding capacity of a drug to desired Dhatus. Exact idea behind *Gamitva* need to solve scientific needs such as *Pharmokinetics* and pharmacodynamics, site of action. Present study is to conceptualize *SrotoGamitva* and mode of action of drug particular Dhatu.

**Keywords:** *SrotoGamitva*, *Dhatu*, mode of action of drug

INTRODUCTION SrotoGamitva refers to channelization or movement of substance through different channels of the body. Gamitva is a Sanskrit word made from Gama Dhatu which shows action of going on a particular site. Srotas serve as site of product delivery on to the local on of need. SrotoGamitva of Aahar dravya ensures movement of Aahar through Annavaha srotas (Digestive system) which signify normal

Sharir kriya (physiology) of the body .Movement of Rasa Rakta through human body also signifies SrotoGamitva. For this movement Vata dosha is responsible. Vitiated vata dosh will cause excessive movement of sara and kitta (essential and nonessential)substances of body. Dravyaguna (Indian Pharmacology) we need to put light on single drug and its panchabhautik constituent and binding capacity of a drug to desired Dhatus. Exact idea behind Gamitva need to solve scientific **Pharmokinetics** needs such as pharmacodynamics, site of action. Present study is to conceptualize SrotoGamitva and mode of action of drug particular Dhatu. Keywords: SrotoGamitva, Dhatu, mode of

SrotoGamitva is broad concept it can be considered in physiological aspects. Movement of essential substances in the body such as, Movement of kawal (bolus). Rasaraktabhisaran (blood circulation) normal functions of the body. SrotoGamitva In context of Dravyaguna refers to ability of drug or a substance to act upon a particular srotas, or dhatu Like each rasa has affinity to certain srotas Madhur (sweet) rasa acts on rasavaha and shukravaha srotas, Tikta Rasa cleanses Raktavaha and Medovaha srotas.

action of drug

This concept can be compared with binding of drug, whether the drug is protein binding or plasma binding (scrota's In Ancient texts quotes mode of action of drug with *rasa Virya* and *Vipaka and Prabhava* of a particular drug.<sup>1</sup>

## **Conceptual study**

## Health perspective and SrotoGamitva

SrotoGamitva emphasizes the efficient transportation of substances through the body channels Transportation of rasa Rakta and conversion of Aahar rasa into specific Dhatu is specific interrelation between Kedarkulya nyay and SrotoGamitva Similar and dissimilar property like Milk is similar to to Oja and hence called as Ojogami .Similarly Visha dravya are also ojogami but it destruct the Dhatu and upadhatu.<sup>2</sup>.

### Gamitva and organogenesis

In order to understand the concept of *Gamitva* the chapter relating to development of organ in a fetus given in the Sharir Sthana of Sushrut Samhita ,Would be helpful .It is important that whenever mention is made of any dhatu at same time the organ developing from particular dhatu as its *srotas* must be kept in perspective .For example in lung diseases we must consider Rakta dhatu because in gestation period lungs are formed from the Rakta dhatu .In similar way liver and spleen have close relation with Rakta dhatu

,In raktajanya diseases *Raktasruti* (Bloodletting) is one of the Principal remedies .Also those drugs which are Rakta gami prove useful .This prove from" *Plihamaye pippali*" Acharya Susruta explained the development of organs in *Susrut Sharirsthan*. When a Vaidya is treating a disease, Utpatti of that particular dhatu must kept in mind like. *In Vrikka* kidney Disease it is very important to think about *Rakta Dhatu* because the kidneys are formed from *Prasad bhag* of *rakta* and *meda*. "*Rakta meda prasadat vrukko*" (*Su sharir sthan Adhyay*)

#### Gamitva of drugs related to Panchakarma

Vaman and Virechan are two methods of shodhan where UrdhwaGamitva (upper side motion) and AdhoGamitva (Motion to lower side) of drug induce successful shodhan of Body. Ex (MadanphalaRandia spinosa) Jayapal

Modern drug delivery systems aims to ensure the precise, efficient, and controlled delivery of therapeutic agents to targeted sites within the body. Just as *srotas* in Ayurveda are the channels for carrying nutrients and waste. Drug delivery systems ensure proper distribution of drugs in the body. The efficiency of drug delivery depends on factors like absorption, distribution, metabolism, and excretion, To comprehend the principle of *SrotoGamitva* can guide the development of

targeted delivery systems that bag specific tissues, organs .In indigenous system of medicines understanding of Dhatu-specific delivery (targeting body tissues). Functioning of *Srotas* Nanotechnology and mode of action of Nano particles ensure targeted drug delivery to specific cells or tissues, which enhancing therapeutic efficiency of drug and minimizing the side effects. Controlled-Release Systems which mimic the regulated flow of substances through *srotas*, ensuring constant drug levels in the body.

#### Concept of Gamitva in Kushth Chikitsa

Dravyas used in *sidhma kushta* and *Padmakalak* act on *Avabhasini* layer that is first layer of the skin, these *dravyas* have *Gamitva* to first layer of skin<sup>4</sup> (Ex. *Kushtha, Tamalpatra Manashila*) .Similarly drugs used in *Tilakalak, vyanga* and *Nyacha* have *Gamitva* on second layer of skin (Example *Nagkeshar, Jatiphala*<sup>5</sup>) etc. *Dravyas* used in *Charmadal kushtha* act on third layer; Similarly *Kilas kushtha* is associated with Fourth layer Similarly some drugs act on *Shleepad* (Filariasis) Some drugs used in *kshar karma* act on innermost layer of the skin.

#### **Conclusion**

Ayurvedic preparations like *Arishtas*, *Bhasmas*, and *Kwathas* are formulated to optimize *SrotoGamitva*, ensuring

bioavailability and efficient absorption, similar to the goals of modern drug delivery systems. In conclusion, *SrotoGamitva* offers a conceptual framework that aligns with modern *pharmacokinetics* and drug delivery mechanisms, bridging traditional Ayurveda with contemporary science. Further study regarding *SrotoGamitva* and basic concepts needs to be done

#### References

 Kashinath pandey2018 Charak samhita Sutrasthan Choukhamba bharti Akadami Page no 515

- Ravidatta shastry 2018 Charak Samhita Chikitsa sthan Choukhamba Vidyabharti Prakashan, Page no 552
- Vd V M Gogate Ayurvedic2017
   Pharmacology and Therapeutic Uses of Medicinal plants Page no12
- Vd V M Gogate Ayurvedic2017
   Pharmacology and Therapeutic Uses
   of Medicinal plants Page no13
- Ravidatta shastry 2018 Charak
   Samhita Chikitsa sthan Choukhamba
   Vidyabharti Prakashan, Page no 197

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