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"AYURVEDIC MANAGEMENT OF CUMULATIVE TOXICITY (DUSHI VISHA)": A REVIEW

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Abstract

Dushi Visha is cumulative poisons which retains and accumulate within the tissues of human beings due to exposure seems prolonged period persistently. It may be originated from inanimate, animate or artificial source of poisons. The clinical manifestation, Complication & Management of Dushi Visha has been found in various Samhitas, but matter is scattered. This study has been taken a serious effort to present a management of cumulative Toxicity with special reference to Dushi Visha with scientific justification.

Keywords: Dushi Visha; Cumulative Poison; Ayurvedic Management; Review.

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1. Introduction

Dushi visha is one of type of chronic toxicity due to accumulation of either Inanimate or animate or artificial poisons which exposed since prolonged period continuously due to less potency and capsulations within lipophilic tissue it remains in the living body for prolonged periods and produced chronic serious /non serious complications when suitable factor influenced. In current era there are so many poisonous materials has been available which have such a nature of accumulations within the body are prolonged periods. Metals and metallic compounds, Pesticides and some food additives have found a nature of accumulations within the living body when it exposed since prolonged period persistent. Over one billion human has been exposed to elevated levels of toxic metals and metalloids in the environment. This is Review Article in which etiological factors of *Dushivisha* and management of *Dushivisha* has been evaluated, elaborated and discuss in detail as per current era.

2. Aim and Object

- 1) To discuss, evaluate & elaboration of Cumulative Toxicity in Human with special references to *DushiVisha*.
- 2) To discuss, evaluate & elaboration of Ayurvedic Management for Cumulative Toxicity

3. Material and Method

This article is based on personal experiences & textual review. Material related to Cumulative Pesticides with special references of *DushiVisha* was collected. All the *Brihatrayi*, *Laghutrayi* and available commentaries of those has reviewed. Modern Texts & various websites to collect information on the relevant topics were referred.

4. Conceptual Study

Definition: Acharya Sushruta has stated that a part of Sthavar (Inanimate), Jangam (Animate) or Kritrim (Artificial) poison, which accumulated and cannot be excreted from body completely due to its chronic and cumulative nature or becomes less potent after digestion or counter action of antidotes & stays in the body for a prolong period and vitiating the body slowly is called Dushi Visha.¹

Table 1: Influencing Factor for Bioaccumulation of DushiVisha

Sr. No.	Feature	Sushrut ²	Ashtang Hradaya ³	Bhav-Prakash ⁴	Vang-sen ⁵
1	Chronic Poison (Jirna Visha)	✓	✓	√	✓
2	Ineffective by antidote (<i>Aush-odhirbhihat</i>)	√	√	√	√
3	Dries by Internal Heat (<i>Agni</i>)	✓	✓	✓	√
4	Dries by Vata Dosha	✓	✓	✓	✓
5	Dries by Sun Light (Atapa)	✓	✓	✓	√
6	Nature of Poison (Swabhav)	✓	✓	✓	√

Table 2: Aggregative Factor of *DushiVisha*

Sr. No.	Feature	Sushrut ⁶	Ashtang Sangrah ⁷	Ashtang Hradaya ⁸	Yog- Ratnakar ⁹	Bhav- Prakash ¹⁰	Vang- sen ¹¹
1	Region (Desha)	✓	√	√	√	√	√
2	Indigestion (Ajeerna)	√	√	√	√	√	√
3	Cold & Cloudy	√	√	√	√	√	√

	Weather						
	(Kala)						
4	Day Sleep	✓	✓	✓	✓	✓	✓
	(Diva-Swapna)						
5	Unsuitable	✓	✓	✓	✓	✓	✓
	Food (Ahita						
	Prashana)						

Table 3: General Clinical Features of *DushiVisha* as per Various Acharya

Sr.	Feature	Sushrut	Charak	Astang- Sangrah	Ashtang Hradaya	Yograt- nakar	Bhavprakash	Vangsen
1	Inebriant after Food (Annamada)	√	-	-	-	<i>Nunui</i> ✓	✓	✓
2	Indigestion (Vipaka)	√	1.	-	-	√	✓	√
3	Loss of Taste (Arochak)	✓	-	-	-	✓	√	✓
4	Patches & Rashes on Skin (Mandal-Kotha)	√	√	√	√	√	✓	√
5	Delusion (Moha)	✓	-	-	-			
6	Wasting of Tissue (Dhatukshaya)	√	-	-	-	√	√	✓
7	Edema of Feet & Hand (Pada-Karasya Shoph)	√	-	-	-	√	√	√
8	Ascites (Dusyodar)	✓	-	√	✓			
9	Vomiting (<i>Chhardi</i>)	✓	-	√	✓	✓	✓	✓
10	Lose Motion (Atisar)	✓	-	√	✓	✓	✓	✓
11	Discoloration of Body (Vaivarya)	✓	-	√	✓			

Complication of *DushiVisha*¹²

Fever , Burning, Hiccup, Flatulence, Edema, Diarrhea, Unconsiousness, Heart Disease, Insanity & Tremor these are the complication of DushiVisha.

Table 4: Management of Cumulative Pesticides w.s.r.to *DushiVisha*

Sr	Procedure &	Sushrit	Charak	Ashtang	Ashtang	Yograt	Bhavpra	Vang-
	Drugs			Sangrah	Hrudaya	nakar	kash	sen
1	Sudation	✓	-	✓	✓	✓	✓	✓
	(Swedan)							
2	Induced Emesis	✓	-	✓	✓	✓	✓	✓
	(Vaman)							
3	Induced	✓	-	✓	✓	✓	✓	✓
	Purgation							
	(Virechan)							
4	(Ikshvaku Kalp)	-	✓	ı	-	-	-	-
5	Mild Purgative	-	-	\checkmark	-	-	-	-
	(Kashyopokta							
	Virechak)							
6	(Sudha Kalp)	-	✓		-	-	-	-
7	DushiVishari	✓	-	✓	✓	✓	✓	✓
	Agad							
8	Blood Letting	_	✓	-	-	-	-	-
	(Sira Karma)							

All the *Acharya* except *Charak* mentioned the Sudation followed by Induced Emesis or Induced Purgation or both able to excrete the *DushiVisha* from human body by means of purification and then administration of *DushiVishari Agad* after conciliating step (*Samsarjan Krama*). Acharya *Charak* has suggested Bloodletting & Medicine prepared from milky juice of Euphorbia, while *Acharya Vagbhat* has suggested Mild Purgative which is already mentioned in *Kashyap Samhita* in addition.

5. Discussion and Conclusion

Cumulative pesticides which persistently accumulate in human being and exist for several years produced long term hazards nearly similar to *Dushivisha*. Most of the clinical manifestation & complication of the cumulative toxicity of pesticides are mimic with *DushiVisha* like Nausea, Vomiting, Diarrhea, loss of Appetite, Exhaustion, Dizziness, Headache, Muscle Weakness, Muscle Cramp, Tremor, Seizure, rashes & patches on Skin, dermatitis, Insanity and Impotency. Cancer is the most danger & probable major complication of cumulative toxicity of pesticides though it is not mentioned as manifestation or complication of *DushiVisha* by any of *Acharya* in *Ayurveda*. *Dushivishari Agad* having herb & mineral has antitoxic effect. It also helps to balance the body essence as *Acharya* mentioned that for complete health, body essence may be balance. As the *Kashyopokta Virechak Kalpa* having mild purgative property in therapeutic doses, it helps to excrete metabolic toxicant from body. Cumulative toxicity should be managed by method of Bio Purification (Induced Emesis & Purgation) along with herbal & herbominaral products, which has already mentioned in *Ayurveda*.

References

- [1] Sushrit, Sushrit Samhita, Kalpsthan 2/33 Hindi Commentary by Kaviraj Ambikadatta Shastri, Sanskrit Sansthan Publication Varanashi, Reprinted in 2007, Page 26.
- [2] Appendix B Pharmacokinetics and Metabolism of Pesticides published in Intentional Human Dosing Studies for EPA Regulatory Purposes: Scientific and Ethical Issues (2004) downloaded on 12/02/2013 & Available on http://www.nap.edu/openbook.php?record_id=10927&page=168
- [3] Robert Krieger 'Hand Book of Pesticides' Volume-I page 567.
- [4] Sushrit, Sushrit Samhita, Kalpsthan 2/25-26 Hindi Commentary by Kaviraj Ambikadatta Shastri, Sanskrit Sansthan Publication Varanashi, Reprinted in 2007, Page 25
- [5] Vangsen Samhita (Chikitsasar Sangraha), Visharoga Adhikar 47 Hindi Commentary by Dr.Ramkumar Ray, 1st edition, Prachya Publication Varanashi, in 1983, Page 714.
- [6] Sushrit, Sushrit Samhita, Kalpsthan 2/33 English Commentary by Prof.K.R. Srikanth Murthy, Chaukhambha Orientalia Publication Varanashi, Reprinted in 2008, Page 424.
- [7] Vagbhat, Ashtang Sangraha Uttarsthan 40/44 English Commentary by Prof.K.R. Srikanth Murthy, Chaukhambha Orientalia Publication Varanashi, 1st edition in 1997, Page 358.
- [8] Vagbhat, Astang Hrudaya, Uttarsthan 35/37 English Commentary by Prof.K.R. Srikanth Murthy, Krishnadas Academy Publication Varanashi, 1st edition in 1995, Page 334
- [9] Yogratnakar Uttarardha Vishanidan DushiVisha Nivriti 1, Hindi Commentary by Lakshmipati Shashtri, Chaukhambha Sanskrit Sansthan Publication Varanashi, Reprinted in 2005, Page 463
- [10] Bhavmishra, Bhavprakash Uttarardha, Visha Adhikar 67/45 Hindi Commentary by Shrihari Prasad Pandeyen, Chaukhambha Sanskrit Sansthan Publication Varanashi, 5th Edition in 2005, Page 744.
- [11] Vangsen Samhita (Chikitsasar Sangraha), Visharoga Adhikar 54 Hindi Commentary by Dr.Ramkumar Ray, 1st edition, Prachya Publication Varanashi, in 1983, Page 715.
- [12] Sushrit, Sushrit Samhita, Kalpsthan 2/31 Hindi Commentary by Kaviraj Ambikadatta Shastri, Sanskrit Sansthan Publication Varanashi, Reprinted in 2007, Page 26.

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