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KSHAR KARMA IN THE MANAGEMENT OF **CERVICAL EROSION – A** PHARMACOLOGICAL REVIEW

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ABSTRCT

Cervical erosion/ectopy is a most common seen in women of reproductive age groups. Its prevalence ranges between 17-50% of all the gynecological conditions. This condition can be correlated with Garbhashayamukhagata vrana or Karnini yonivyapada. In modern system of medicine diathermy cauterization or cryosurgery are generally advised for treatment but these procedures have their own side effects and complications like excessive vaginal discharge, secondary infertility, bleeding per vagina, infections, stenosis etc. In Ayurveda found better alternative treatment for cervical erosion like Kshar karma, Agni karma, Avachurna as para-surgical procedures or Yoni pichu, Yoni varti, Yoni prakshalan as sthanik chikitsa. All of these Kshar karma is consider as satisfactory approach to treat cervical erosion because of its properties like *chedya*, *bhedya*, *lekhan*iya and *tridoshahara*.

Keywords: Cervical erosion, Kshar karma, Garbhashayamukhagata vrana

INTRODUCTION

Cervical erosion is condition in which the squamous epithelium of the cervix is replaced by Columnar epithelium which is continuous with that lining the endocervix¹. Cervical erosion/ectopy is a most common seen in women of reproductive age groups.

The prevalence of cervical erosion ranges between 17-50%. The condition is increases with parity and decreases with age 35 and above, Uncommon in post-menopausal women. This condition can be found in up 80% of sexually active adolescents also common in those who uses hormonal contraceptive pills².

Garbhashayamukhagata vrana- There is no classical reference for Garbhashayamukhagata vrana. But the basic references can used to define vrana at the Garbhashayamukha and can be correlated with cervical erosion.

Etiology 7 - 12

Cervical erosion	Garbhashayamukhagata vrana	
Congenital and developmental	1. Samanya nidana	
This condition persist only for a few	<u>Vrana</u> - Tridoshaprakopa, Agni, Kshar,	
days until the level of estrogen derived	Visha mithya prayoga etc.	
from the mother is falls down.		
	Yonivyapada- Mithya aahar-vihar,	
	Artava dushti, Bhrush maithuna sevan,	
	Use of apathya dravya.	
2. Acquired	2. Vishishta nidana	
<u>Hormonal</u> (Usually found in the	<u> </u>	
condition of high estrogen)	srotas and Garbhashayamukha- Brush	
-Adolescents	maithuna sevana, Karnini yonivyapada	
-Pregnancy	hetu (Akale vahamanaya), Increased	
-Women on oral contraception	frequency of vaginal delivery, accidental	
-During the years of menstruation	injuries during assisted delivery	
mainly in the ovulatory phase	(vacuum, forceps), D&C, Diagnostic	
	procedures etc.	
Infection		
Chronic Cervicitis	Yonivyapada-Pitta-kapha- sannipatiki	
	yonivyapada, Karnini and acharana	
4	(vipluta by vagbhata) yonivyapada.	

Symptoms & Signs 3, 4

Cervical erosion			Garbhashayamukhagata vrana	
Abnormal	Vaginal	discharge	Yoni strava associated with pichilatwa in	
(mucoid/mucopurulent/			kaphaj vrana and dourgandhya in pitaj	
irritant/offensive/bloodstained)			vrana	
Post coital bleeding			<mark>Yoni d</mark> aha	
Infertility			Vandhyatva // // // // // // // // // // // // //	
Vulvar pruritus			Yoni kandu	
Low back pain		All arms	Kati vedana	
Dyspareunia			Maithuna asahishnuta	
Frequent burning micturition			Mutrashayagata vikara	

Signs

On per speculum examination it is visible that bright red area surrounding and extending beyond the external os in the ectocervix, clearly demarcated outer edge, lesion with smooth surface/ having papillary folds and sometimes multiple oozing spot on rubbing with gauze piece³.

Types

- 1. Congenital
- 2. Acquired
 - Simple/flat type
 - Papillary type
 - Follicular type¹

Diagnosis

Cervical erosion is likely to be discovered during routine pelvic examination and Pap smear test⁵.

Treatment

Cervical ectropion requires no treatment unless the symptoms are affecting the patient's daily life. First-line treatment is discontinuing hormonal contraceptives like oral contraceptive pills, depot medroxyprogesterone acetate, and switching to non-hormonal contraception methods. If the symptoms persist, the following treatment can be offered:

Electrocautery also is known as thermal coagulation. The cautery probe is held for 30 seconds against the area of ectropion, while the area is treated with heat to destroy the abnormal cells.

Cryotherapy (freezing): The cautery probe is held for two minutes against ectropion while the area becomes frozen.

Laser therapy: In this procedure, the carbon dioxide laser beam is used to destroy the abnormal cervical epithelium seen on magnification by a colposcope.

Boric acid vaginal suppositories can be used to make the pH acidic.

In Ayurveda found better alternative treatment for cervical erosion like Kshar karma, Agni karma, Avachurna as para-surgical procedures or Yoni pichu, Yoni varti, Yoni prakshalan as sthanik chikitsa.

Kshar Karm: Application of Kshar on wound (Chemical cauterization) e.g. Apamarg Kshar, Arka Kshar

Agni Karma: Application of Dahan upakaran on wound (Cauterization) e.g. Pancha-dhatu shalaka

Avchoorna: Dusting a choorna (dry powder) on wound e.g. Haridra, Lodhra, Yashtimadhu

Yoni Prakshalan: Cleaning of wound with medicated preparations e.g. Panchwalkal kwath, Triphala kwath.

Yoni Pichu: Placing a Tampoon shoaked in medicated oil or liquid e.g. Jatyadi tail, Bala tail, Yashtimadhu ghrita

Yoni Varti: Placing a medicated suppository e.g. Kasisadi yonivarti, Argwadhadi yonivarti

Kshar Karma

According to Sushruta samhita,

"Vrana gatra vichurnane, vranayati iti vranaha" (su.chi 1/6)

The term vrana indicates a discontinuity in the healthy tissue of body. There are 14 types of *vrana* based on *dosha* predominance. Among them, the cervical erosion may be correlated as the *sannipatiki vrana*.

Among all *shastra* and *anushastra*, *Kshara* is the supreme because it is most effective and acts immediately.

"Shastra anushstrebhyah ksharah pradhantamah chedyabhedyalekhnyakaranaa tridoshagnatwah visheshkriyavacharnanha"

Kshar is a caustic, alkaline in nature obtained from the ashes of medical plants. It is a milder procedure compared to surgery and thermal cautery. Kshar has the properties like ushna virya, laghuteekshna guna, tridhoshgna, dahana, pachana, darana, vilayana, shodhana, ropana, shoshana, stambhana, krimighna, and lekhana karma. It's external application (Pratisaraneeya kshara) is enough to manage the vrana along with internal medicines ¹³.

In general, it's action can be correlated in this way,

- Cleansing the wound
- Antiseptic property
- Desquamation of sloughs

- Draining of pus
- New vascularization
- Granulation tissue formation
- Inpouring of proteins and fibrocytes for the formation of scars (fibrous tissue) to fill up the gap.

Examples: Snuhi kshar, Apamarg kshar, Udumbar kshar, Palash kshar, Tankan kshar can be used.

Advantages of Kshar karma

- Postoperative pain is mild in intensity
- No bleeding
- Minimum hospitalization-one day care
- No scope for recurrence
- Systemic diseases are also undergoing this procedure.
- No surgical complications like incontinence, stenosis and stricture.

On conclusion, *Garbhashayamukhagata* vrana *chikitsa* by *Kshar karma* facilitates enhanced drug effect for early and uncomplicated wound healing by this way,

Properties of Kshar	Action	Effect
Ushna virya	Kapha-vatahar	Pain/tenderness
4	Pachana	Reduce the inflammation in
		lesser time(paka)
Teekshna guna	Kaphavatahar	Yoni stravahara
Lekhana, Dahana	Dushita mamsaharan	Destruction of columnar
(Corrosive nature)	Remove the vitiated dosha	epithelium and thus promote
		the re-epithelialization of
		squamous epithelium
		Draining of pus
		Desquamation of sloughs
		Hence enhance the healing
		process
Kushtagna	Reduces the vitiated kapha	Yoni kandu nashak
Tikta rasa	and pita	
Laghu-Ruksha guna		
Krimighna	Destroy infectious agent	Anti-mirobial
Shodhana	Kapha-pitahara	Yoni stravahara
Shoshana		
Dosha vilayana	Dissolution of dushita dosha	Samprapti vighatana

CONCLUSION

In modern system of medicine diathermy cauterization or cryosurgery are generally advised for treatment but these procedures have their own side effects and complications like excessive vaginal discharge, secondary infertility, bleeding per vagina, infections, stenosis etc. In pharmacological aspect treatment of cervical erosion is "re-epithelization of squamous epithelium" for that in ayurveda, *Kshar* is strong alkaline nature is responsible for the corrosive action and re-epithelization of squamous epithelium easily.

REFERENCES

- 1. D.C Dutta's Textbook of Gynecology including contraception, New Central Book Agency (P) Ltd, 7th edition, August 2016, Benign Lesion of the Cervix, pp 217.
- 2. Aggrwal P, Amor Ab. Cervical Ectropion. Statpearls [Internet]. 2020 Jul 31.

- 3. D.C Dutta's Textbook of Gynecology including contraception, New Central Book Agency (P) Ltd, 7th edition, August 2016, Benign Lesion of the Cervix, pp 218.
- 4. Goldacre MJ, Loudon N, Watt B, et al. Epidemiology and clinical significance of cervical erosion in women attending a family planning clinic. Br Med J. 1978;1(6115):748-50
- 5. https://www.healthline.com/health/womenshealth/cervical-ectropion#treatment
- 6. Acharya Jadavaji Trikamaji, N M Acharya, editor. Sushruta Samhita of Sushruta with Nibandhsangraha Commentry of Dalhana Acharya, Chikitsa Sthana. 3d ed., Ch.1, Ver.3, Varanasi: Chaukhambha Surbharati Prakashan; 2014. pp.396
- 7. Acharya Jadavji Trikamji, editor. Charak Samhita of Agnivesha with Ayurveda Dipika commentary of Chakrapanidatta, Chikitsa Sthana, Ch. 30, Ver.7.8 Reprint edition. Varanasi:Chaukhambha Prakashan; 2011. pp.634
- 8. Acharya Jadavaji Trikamaji, N M Acharya, editor. Sushruta Samhita of Sushruta with Nibandhsangraha Commentry of Dalhana Acharva, Uttara Tantra. 3d ed., Ch.38, Ver.3-6, Varanasi: Chaukhambha Surbharati Prakashan; 2014. pp.668
- 9. Bhisagratna Pandit Shree Brahma Shankara Mishra, editor. Bhavaprakasha of Shree Bhavamishra edited with the Vidyotini Hindi Commentary, Vol. 2, Ch. 70,
- 10. Prof. Yadunandana Upadhyaya, editor. Madhava Nidana of Sri Madhavakara with The "Madhukosha" Sanskrit Commentary by Shree Vijayrakshita and Shree Kanthadatta with The Vidyotini Hindi Commentary and notes By Shree Sudarshana Shashtri, Uttarardha, Jarayuroga Nidana. Varanasi: Chaukhambha Surbharati Prakashan;2009 pp512.
- 11. Shivprasad Sharma, editor. Astanga Samgraha of Vriddha Vagbhatta with the Sasilekha Sanskrit commentary of Indu, Uttara Tantra. Ch. 38, Ver. 32, 1 ed., Varanasi:Chaukhambha Sanskrit Series office; 2006. pp.828
- 12. Murthy S.K.R. Ashtanga Hridaya (with English translation): Chaukhamba orientalia publications, Varanasi: 1999; vol I: Nidana sthana, chapter. 16/27.pp. 163
- 13. Kowsalya RG, Naik SAD, Jain A. Review on Kshar karma in streeroga. J Ayu Med Sci 2019;4(1):457-9.