

Role of Prolonged Vaginal Packing for Decubitus Ulcer in Utero-Vaginal Prolapse.

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Abstract

Background: Utero-vaginal prolapse is a common condition in aged women and often they come to hospital with decubitus ulcer. Prolonged vaginal packing not only will heal the decubitus ulcer but also it may help in returning the normal rugosity of the vaginal skin.

Aims: To assess the role of prolonged moist vaginal packing in Decubitus ulcer over utero-vaginal prolapse.

Methods & material: This prospective study conducted at the gynecology OPD of Jawaharlal Nehru Medical College, Hospital, Bhagalpur. Hundred (100) patients of utero-vaginal prolapse with decubitus ulcer were studied. After initial staging (POP-Q staging), daily moist (5% povidone-iodine solution soaked gauze) vaginal packing at home was advised. After 2 weeks, re-examination done for decubitus ulcer healing. Packing continued till operation (interval 1 month). Preoperative staging and modification of operation were noted.

Results: Initial staging was stage 3 - 30%, stage 4 - 70%. Pre-operative scoring revealed stage 3 became stage 2 in 60% cases and stage 4 became stage 3 in 50% cases. This improvement helped us to avoid excessive excision of vaginal mucosa.

Conclusion: Prolonged pre-operative moist gauze vaginal packing may improve the outcome of the disease.

Keywords: Uterovaginal-prolapse, Decubitus ulcer, Vaginal Packing

Introduction

Utero-vaginal prolapse is a common complaint of elderly women in gynecology^[1] and there is roughly a doubling in the risk of prolapse with every completed decade of life^[2,3]. Often these patients report late with decubitus ulcer. This is an ulcer due to the venous congestion – a frequent associated finding of long standing prolapse. The treatment of decubitus ulcer is repositioning of the vagina by packing and improves the staging of Decubitus ulcer.

Materials & Methods

One hundred patients of utero-vaginal prolapse with decubitus ulcer were studied. Staging was done by POP-Q (Pelvic organ prolapse quantification) system. They were treated by 5% povidone-iodine solution soaked vaginal packing which was replaced every day with new one and also anytime if it had fallen out. Except few admitted cases, most of the patients were treated on OPD (outpatient department) basis. Informed consent was obtained from all patients. Patients were taught the technique of povidone-iodine soaked vaginal gauze packing and they followed the advice at home. They replaced the pack every day with new one and also any other time whenever it came out. Re-examination was

done after 2 weeks. Most of the decubitus ulcers got healed by that time, but they could not be operated at that time. Operation dates usually could be given after 1 months. They were asked to continue the povidone-iodine soaked vaginal gauze packing. Before the operation, staging of the prolapse was assessed again.

Observations

Patients were aged in between 50 – 70 years, highest no. in (56-60) years group 50%, followed by (61-65) years group 28%. Para 2 & 3 constituted the majority (83%). Regarding duration of prolapse, highest number was observed in 10-15 years group (40%), next it was 5-10 years group (32%). (Table 1)

Table 1: Age, Parity & Duration of Prolapse

Age (years)	No.	Duration of prolapse	No.
< 50	10	< 5 years	20
50-55	10	5 -10 years	32
56-60	50	10 -15 years	40
61-65	28	> 15 years	8
66-70	2		100
Total	100		

Degree of prolapse was assessed by POP-Q system. In first visit, before starting of vaginal packing, stage 3 was 40%, stage 4 was 60%. Reassessment before operation (gap is between 1 months) revealed the improvement as - stage 3 → stage 2 (60%), stage 4 → stage 3 (50%). (Table 2)

Table 2: Degree of Prolapse

BEFORE VAGINAL PACKING		After vaginal packing		
Stage 3	30	Stage 2	18	60% (21 out of 39)
		No change i.e. remain in stage 3	12	40% (18 out of 30)

		Total	30	
		Stage 3	35	50% (35 out of 70)
		No change i.e. remain in stage 4	35	50% (35 out of 70)
		Total	70	

Patients were asked to strain to increase intra-abdominal pressure and the degree of prolapse was assessed before operation in the ward – improvement noted. But whenever the cervix was grasped by vassellum and pulled out during operation, then the improvement in degree of prolapse was not so noticed, though the POP-Q classification does not change because of this maneuver. On follow up, no patient had dyspareunia. Only one patient had recurrent cystocele.

Discussion

Decubitus ulcer results due to venous congestion. Venous congestion causes edema of the local tissue which may cause decrease in tissue strength. Prolong packing relieves venous congestion, resulting in healing of decubitus ulcer^[4] and disappearance of local tissue oedema. All these may increase the strength of the vaginal tissue. A patient with decubitus ulcers who received prolonged wound care with povidone iodine soaked gauze developed hypernatremia, hyperchloremia, metabolic acidosis and renal failure^[5]. In present study we didn't encounter such like problem may be because decubitus ulcer was healed by the initial 2 weeks of vaginal packing, so there was no raw area for increase absorption of Iodine.

The improvement in degree of prolapse apparently does not seem to be a significant finding. But it helped us in managing these patients in following way – less excision of vaginal mucosa; In the article of “management of iatrogenic vaginal stenosis” authors opines that - some

surgeons elect to routinely perform anterior and posterior colporrhaphies together, regardless of the fact that only the anterior or the posterior compartment is lacking support. One must be cautioned against attempting to improve support where no such improvement is needed. Such practice increases the risk of excising too much mucosa or over-aggressively plicating the vaginal subepithelium and ultimately leading to vaginal stenosis^[6]. The goal of surgery is relief of prolapse symptoms and overcorrection must be avoided^[7]. Anterior colporrhaphy, the most commonly performed prolapse repair, may narrow the vagina from a too wide excision of vaginal mucosa. Posterior colpoepineorrhaphy has been the major cause of vaginal stenosis after prolapse repair. In anticipation of continuing postmenopausal atrophy, undue tightening of the vagina should be avoided^[8]. The rate of de novo dyspareunia was 16% after anterior colporrhaphy^[9]. Hence by doing less excision of vaginal mucosa these discomforts of the patient could have been avoided.

Next thing of concern to us was recurrence of pelvic organ prolapse.

In a resource poor country like India where many poor patients have to wait long time due to the busy operative schedule of the govt. hospitals, instead of wasting this unnecessary time, this simple procedure can bring back their vaginal texture and help the surgeon to do less excision of vaginal mucosa. This can reduce the postoperative morbidity and improve quality of life.

Conclusion

Vaginal packing is an age old method for the treatment for decubitus ulcer in utero-vaginal prolapse. Usually packing is done till the healing of the ulcer and decubitus ulcer normally get healed by 10-14 days. The new finding in this study is that, prolonged packing can change the scenario. Hence we conclude that, prolonged pre-

operative moist gauze vaginal packing (in this study 5% povidone-iodine soaked gauze) after reduction of the utero-vaginal prolapse may improve the postoperative outcome of the disease.

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