香港理遺學會

THE HONG KONG CONTINENCE SOCIETY



主編:阮鳳姿

編輯:李偉娟 陳秀娟

顧問:梁萬福醫生 范強醫生

【箱者的話】

の民馬泰

市面一片陰霧,義育,減原消息揭釋不絕,然而這一切亦應或一即應進學會放 員對各電量乘服務的施效非承賴,為下材填設升音準股進服務水平設備目標 我們為大家安排一途申提礎而來有關應該服務的訓除調程。譬如九月後牽解的 個年文會及學術會與。通有與香幣化廠會批准值推開的分分學復應請准及 工作榜。通有。、(併發前各異本期的發程查的介證)。

上行场,是有一、(中旬南分與不明海頭取下的下項)。 专關金融與到於東盖特與合屬院外科特的格墨土為大家學館全部外科手辦在 大便或禁治療主的供數。因於與一位已將等達口治療物專科例維持的施提生為 大家分享國內及影提理的規數,內地的醫療養殖等大便調本建成不不斷提高 水平、香幣與內達合與傳導科例原於非程極速出現。而這位內域或古海療助 產度是於這個中落合辦的課程,今期會就得到專係相秘權(專科提士)為大家幹 指集事一個地位與解釋任務的理查。

E.

FAECAL INCONTINENCE IN ADULTS: A SURGICAL PERSPECTIVE

LAM, Telt Yuen David FHKAM (Surgery) FRCS (Edin) FCSHK MBChB (CUHK) KWOK, Samuel Po Yin FHKAM (Surgery) FRACS FRCS (Edin) FCSHK MBChB (CUHK) Division of Colonectal Sargrey, United Cristian Hospital Department of surgery Hong Kong, CHINA

INTRODUCTION

Faecal incontinence is a social taboo that patients find it difficult to tell even their doctors. As a result this is often a neglected problem. It is especially common among elderly people. By itself, it is not a disease. It is as much a symptom as abdominal pain, or per rectal bleeding. The first step towards treatment is awareness. The most appropriate treatment depends on the underlying disease. In many occasions, surgery helps.

CAUSES FOR FAECAL INCONTINENCE

The commonest cause for faecal incontinence in the young adult female is birth injury. Although third degree tears happen in less than 1% of all childbirth, lesser degrees of injury is obvious in 0.5-2.5%. It has been estimated that up to a third of all childbirth is associated with an unrecognized, minor sphincter injury, which might become manifest years later. People living in old age homes are frequently incontinent because of dementia or limited mobility. Spinal cord injury or diseases such as transverse myelitis make the patient unaware of faecal soiling. Damage to the sacral nerve roots or the Pudental nerve weakens voluntary contraction of the external sphincters. A fistula -in-ano is an abnormal communication between the perianal skin and the anorectum. If the internal opening lies in the rectum, faecal soiling occurs. Faecal incontinence can also occur with a normal sphincter. This happens when it is overwhelmed by excessive diarrhoea. The condition can

only be worse if the rectum becomes stiffer or shrinks after irradiation or surgical resection. Rectal prolapse keeps the sphincter open and soiling of mucus and facces is very common. A sphincter at fault is only one suspect among a multitude of possibilities.

STRUCTURAL DISRUPTION OF THE ANAL SPHINCTER

The anal sphincter can be damaged during the course of childbirth, impalement injury or surgical trauma. Childbirth injury usually tears apart the sphincter in the front. When a patient accidentally falls on to an erect pole, the damage can easily involve the anal sphincter, the anal canal, the rectum and even through and through into the vagina. After a fistulatomy or lateral sphincterotomy, the break naturally lies where the surgeon laid his scalpel.

With a structural defect in the sphincter, surgical repair is often successful. In childbirth injury, the tear is from the front. The external sphincter is always damaged first. The internal sphincter is often preserved. Anterior overlapping sphincter repair is the established treatment method. The success rate is generally above 70% (Table 1). In terms of the timing of repair, delayed repair has a higher success rate than immediate repair. In spite of an impressive early success, anterior overlapping sphincter repair seems to deteriorate with time (Table 2). The Pudendal nerves are prone to stretch injury during childbirth. If the Pudendal nerves are also damaged, the





functional result after sphincter repair is less successful.

Sphincter repair after non-obstetric injury appears to be less successful. In the rare occasion of internal sphincter degeneration, any form of repair has been met with poor results.

NEUROPATHIC & IDIOPATHIC FAECAL INCONTINENCE

Pudenal neuropathy is a common cause of neuropathic faecal incontinence. The Pudendal nerves are prone to stretch injury on two occasions: during childbirth and on repeated, prolonged straining during defecation. In the latter case, there is usually an excessive perineal descent and the patient has evacuation difficulty and chronic constipation.

A rare cause of faecal incontinence is internal sphincter degeneration. These patients experience passive faecal incontinence. Urge incontinence is generally absent. The internal anal sphincter is seen to be thin and hyperechoic on endo-anal ultrasound.

Although tightening the sphincter and lengthening the anal canal improves function for some patients, the overall results of sphincter repair have been disappointing (Table 4). Sacral nerve stimulation is a promising innovation for this group of patients. Electrodes are implanted into the sacral foramina to constantly stimulate the sacral nerve roots. Matzel et al. notices an increase in closing pressure of the anal canal with prolonged stimulation. Vaizey et al noticed enhanced maximal squeeze pressure but not the resting pressure. The rectum became less sensitive to filling although compliance was unchanged. Electro-stimulation appeared to alter rectal and anal smooth muscle activities and facilitated external sphincter contraction. Several authors reported high success rate with this technique (Table 5).

"END STAGE" FAECAL INCONTINENCE

When the sphinciers are damaged beyond salvage, the traditional treatment is colostomy. It is still the kindest way out for some. Two other methods that have become available are the muscle transpositions and the artificial bowel sphincter, together known as neo-sphincters.

Neo-sphincters have become more and more a common procedure in the colorectal surgical arena in recent years and already a large number of patients have benefited.

Several US and European surgeons recently released their consensus statement regarding neo-sphincters. They stated that neo-sphincter is a valid option in end-stage faecal incontinence. For selected patients, electrically stimulated skeletal muscle transposition is appropriate after abdomino-perineal resection for rectal cancers (Dis Colon Rectum, 2000).

Muscle Transposition

The gluteus and the gracilis muscles have both been successfully transposed around the rectal tube. The simple wrapping itself reinforces resting anal tone. A further refinement is stimulated graciloplasty. A pulse generator is implanted subcutaneously and an electrode is threaded to the muscle. Continuous stimulation of the fast-twitch gracilis muscle keeps it contracted. Electrostimulation can be turned or and off by a remote control or magnet as desired. The method has recently fallen out of favour worldwide since Medtronics, the manufacturer of the pulse generator has decided to withdraw the product from the market.

Artificial Bowel Sphincter

The artificial bowel sphincter is an inflatable cuff implanted around the rectal tube. To allow defaccation, the patient pumps water out of the cuff to deflate it. Water flows down the pressure gradient to re-inflate tit. Use the cuff automatically after an interval. The idea is simple and neat. Complication rate was high. For those who were successful, significantly improved continence scores and elevated resting sphincter pressures were recorded.

MALONE ANTEGRADE CONTINENCE ENEMA

Chronic constipation and overflow faecal incontinence occur after spinal injury or central nervous system diseases. By flushing the colon clear of its contents daily, it is possible to keep these patients clean and dry most of the time. Water or physiological saline is flushed



through a surgically created appendicostomy. The method, known as Malone Antegrade Continence Enema (MACE) has been particularly successful with children (Table 7). Good long-term (6 years) results have been demonstrated. The method is not free of morbidity; and these include stoma stenosis and small bowel volvulus with obstruction [39]. The use of MACE in adults remains to be proven.

BIOFEEDBACK

Biofeedback has been extensively studied. Biofeedback carries no risk, is non-invasive and is painless. However it is labour-intensive. When no obvious cause is identifiable, or if the sphincter is week without structural or obvious neurological damage, a course of biofeedback is worth trying. The patient who has obvious sphincter defect will also benefit from pelvic floor exercise. Sometimes, surgery can be avoided. After surgical sphincter repair, the patient has to relearn the repaired muscle. The surgeon thus works hand in hand with the biofeedback therapist to provide the patient with a comprehensive sphincter retraining program. Diarrhoea and overflow faecal incontinence has been shown to improve with biofeedback.

IS THERE A ROLE FOR COLOSTOMY?

The aim of treatment of faecal incontinence is to improve the quality of life, self-image and prevention or treatment of complications. Patients whose quality of life is severely restricted due to old age, dementia, etc. are best treated less aggressively. In this context, a diverting colostomy is sometimes the best and kindest treatment. A colostomy diverts faecal stream away from the perineum. Persistent perianal solling and skin exceriation are thus prevented. The risk of infected bedsores will be minimized. If there is a recto-vaginal fistula, leakage is prevented.

CONCLUSION

Faecal incontinence is a miserable symptom. A good percentage of those afflicted can potentially improve with treatment. Surgery is particularly successful when structural damage is present. Neuropathic and idiopathic faecal incontinence benefits most from sacral nerve stimulation. The artificial bowel sphincter is the last resort for the irreparable sphincter before proceeding to colostomy. In the debilitated few, colostomy is still the kindest treatment.

Table 1: Results of Overlapping Sphincteroplasty

Author		Good Results
Hool et al, CCF (Ohio) 1999	51	80%
Gilliland et al, CCF (Floridal 1998	77	55% at 24 mth
Young et al, Sydney, Australia 1998	24	86% at 18 mth
Engel et al, St. Mark's Hospital 1994	55	79% at 15 mth
Khanduja et al, Ohio 1994	11	64% at 16 mth
Gibbs etl al, Augusta 1993	33	73%

Table 2: Success Rate Deteriorates with Time

Author	N available for assessment	Success Rate
Karoui et al.	86 at 3 months	82%
France 2000	74 at 40 months	51%
Malouf et al, St. Mark's	55 at 15 months	76%
Hospital 2000	46 at 5 years lat least	50%

Table 3: Internal Sphincter Damage, Results of Direct Repair

Author	N	Restuls
Leroi et al, St. Mark's Hospital 1997	5	3 improved, 0 fully continent
Abou Zied et al, Egypt 2000	8	5 improved, 2 fully continent

Table 4: Sphincteroplasty for Idiopathic Faecal Incuntinence

Author		Successful	Methods of Repair
Diaz-Gomez et al	11	8	Posterior Repair (2) Double Repair (9)
Orrorn et al	16	10	Anterior Repair
	17	10	Posterior Repair
Setti Carraro P et al	34	28	Posterior Repair

Table 5: Results of Sacral Nerve Stimulation

Author		Successful Cases	FollowUp Duration
Malout et al.	5	5	16 Months
Vaizey et al	2	2	9 Months
Osterberg et al	24	11	3 Months
	13	9	12 Months
Vaizey et al	9	8	>1 Week
Matzel et al	3	3	6 Months

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Table 6: Muscle Transposition for End State Faecal Incontinence

Author	Type		Success(%)	
Devesu et al, 1997	Adynamic Gluteoplasty	17	9 (53)	
Meehan et al, 1997	Adynamic Gluteoplasty	7	5 (71)	
Christiansen et al, 1995	Adynamic Gluteoplasty	7	3 (43)	
Farid et al. 2000	Dynamic Gluteoplasty	9	7 (78)	
Mavrantonis et al, 1999	Dynamic Gluteoplasty	27	13 (48)	
Sielezneff et al., 1999	Dynamic Gluteoplasty	16	13 (81)	
Violi et al, 1999	Dynamic Gluteoplasty	8	4 (50)	
Adang et al, (Abs)	Dynamic Gluteoplasty	13	6 (46)	
Versluis et al., 1995	Dynamic Gluteoplasty	38	24 (63)	

Table 7: Results of Malone antegrade Continence Enema

Author		Success(%)
Griffiths et al, 1995	21	15 (71)
Van Savage et al, 2000	16	16 (1000
Schell et al, 1997	23	20 (86)
Koyle et al. 1995	22	16 (73)





▼ 國內的行星流動
力學检查室

從1986年以來國 內相繼有雜誌報 道採用中國傳統

的針灸參與治療尿失禁,均有不同的效果。

大小便失禁病人的皮膚護理:在治療大小便失禁病人 的同時現在更加注重病人的皮膚護理,除了及時清洗 候拌皮膚乾燥外,會陰部及胃部皮膚使用無痛保護膜 以隔離實便和尿液對皮膚的刺激,如有外陰部及胃部 皮膚潮紅及輕藍皮濃晦。則使用騰廣粉來治療,均可 取得具好效果。對排因反便擦洗及磨擦引起的較?嚴重 即得異則根類皮損情況按傷口處理。同時指導病人使 用合瘤的尿糖。

目前有關失禁的專科獎理主要局限於一些大益的綜合 性醫院和專科醫院,大小便失禁的病人在庭選疾病的 危置期後通常轉至康後醫學科(Department of Rehabilitation Medical)維行康復治療,物理治療師終 參與大小便失禁的治極如採用肛門陰藥生物反歸治療 股電前務等,康復科進士對一經數是近動能力有應 報的病人推行日常生活自理經力劃接如床精轉移 人。改善了病人的生活自理能力,從而大大降低了 期等性失禁的發生;而在一些較小規模的醫院中失禁 的專科維理的果問展,有待推一步普及。

國內矢禁護理的現狀

初爱玲姑娘(中山大學附屬第三響院薩理部)

随著大陸內地生活水平的不斷提高,人們越來越注重 自己的生活質量,大小便失禁病人的就修率越來越高。 同時,隨著醫療護理水平的不斷提高,對大小便失禁 病人的護理也據入了有專科特色的專科護理,特別是 插口治療師的出現,使失禁病人的生活狀況得到了極 大的改善。

目前在大便失業獎達方面:參斷大便失禁的手段和方 法越來越完善。目前所採用的方法主要有:直轄指錄、 抹實施影檢查(輕解肛直角及會陰下降程度)、肛腸測距 和航電區檢查(戰解括的風功能狀況及結腸活動性)、顯 水浬注試驗和氣囊條存試驗(瞭解直腸條存功能)。纏延 上所採取的主要隨理推施有指導病人肛門括的肌較煉、 排便側塊。有報道自製氣囊肛管應用於大便失變、使 用棉條基塞肛、肛測按摩及電針灸的護理方法,收到 一定的效果。

在尿失蒙睫環方面: 种志清醒和感覺正常的尿失聚的 病人常規行際流動力學檢查。腹理上根據失孽的種類 不同採取相應的方法,主要有盆底肌損嫌、膀胱訓練 同時配合藥物治療,必要時結合手樹治療。指導補強 性失禁的病人如胸腰段脊髓損傷病人行自我清潔情除 專尿法,同時始病人制定飲水計劃。昏迷合併尿失勢 的男病人使用陰量養接尿引流袋,女病人使用尿墊。



Lee Wai Kuen Nurse Specialist (Stoma Care) OMH

Enterostomal Therapy Nursing is the specialty care for the patients with stoma, wound and incontinence problems. Before year 2000, there was only one Enterostomal therapist in Shanghai.

Millions of patients in China could not receive proper nursing care. In order to develop this specialty in China and benefit for the patients, we decided to set up a program to train the local nurses.

Since there was no ET in China to help us in coordination, we had arranged i nurse from Shanghai and 3 nurses from Guangzhou to

Hong Kong to study a proper ET program. After their study, they went back and help us to liaise with Department of Nursing, Sun Yat-sen University and Tumour Hospital of the same university to organize a proper ETNEP in Guangzhou. The course opened in 2001.

This was a big project; we had arranged over 20 speakers, including doctors, enterostomal therapists, continence nurse

specialists, occupational therapist, and podiatrist to go for teaching and 15 mentors participated in clinical practicum. All of them were volunteers. They spent their own time to share and teach the nurses there. In these 2 years time, we had totally trained 23 new ETs in China. It was really a very special experience. The practice was guite different between Hong Kong and China. For example,

the nurses in China did not need to do the wound dressing. They were done by the doctors. Their patients would not have incontinence problems for they all on Foley catheters and napkins. There was no patient need bladder training or toilet training.

Hong Kong Continence Society Limited Council Member 2001-2002

Dr. John Fenn (President) Dr. Leung Man Fuk (Vice President) Dr. Pei Kee Wai Conrad (Hon. Secretary) Dr. Tam Cheuk Kwan (Hon. Treasurer) Dr. Cheon Willy Cecillia

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We hope this program will alert the medical and nursing staff that they need to face the incontinence problems for their patients. In addition, it will enhance the nursing profession in PR China and finally benefit the patients.

1. Certification Course on Continence Care for Registered Nurse

11 - 23 November 2002 Organizing Agent: United Christian Hospital

2. Educational Talk and Training Workshop on Continence

Organizing Agent: HK Continence Society & Community Rehabilitation Network

Educational Talk provided by Dr. Leung Man Fuk, Chief of Service (Med. & Geri.), UCH

Date: 5 October 2002

Educational Talk provided by Dr. John Fenn, Consultant Surgeon, QEH

Date: 19 October 2002

Entiting Workshap provided by Ms. Chan Sau Ruen, Name Specialist (Continence Care), UCH and Ms. Grace Yven, Occupational Therapist, Rattonice and Tang Skiu Kin Hospitals

2 November 2002

Training Workshop provided by Ms. Ratherine Sta. Nurse Specialist (Continence Care), PMH and Ms. Maisic Wong, Physiotherapist

16 November 2002

3. 長老小便失禁埋命

To be confirmed

Speaker: Ms. Ip Kam Tirr, Nurse Specialist (Geriatric Nursing), KWH Organizing Agent: 遊談仙能大堵老人服務中心及者後埋遺學會

4. International Children's Continence Society & Asian Pacific Association of Paediatric Urologists Joint Meeting (Hong Kong)

Dates 10 - 13 December 2002

