Case Report

Problems in Tropical Proctology

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Abstract
Anorectal pathology is a growing problem in the developing (tropical) world. Five proctology cases and other anorectal pathologies that highlight the problems of diagnosis and management in a developing tropical country (Cameroon) in West Africa are discussed. Proctological procedures can be safe and effective therapeutic modalities. However, the problems of proctology practice in the developing world include: patients’ ignorance and fear of anorectal procedures rendering fecal incontinence; insufficient health education accentuating late diagnosis and management of anorectal disease; a poor referral system; the lack of trained colorectal surgeons and pathologists; and the greater need for understanding sexually transmitted diseases such as HIV/AIDS in the practice of proctology.

Keywords: Haemorrhoids; Cloacal injury; Rectal prolapse; Anal tuberculosis; HIV ulcer; HIV-associated malignancies

Case Presentation

Problem 1
The lack of trained colorectal surgeons, pathologists and resources

Case: Chronic massive prolapsed haemorrhoids managed by ablation and correction in a poor resourced area.

We report a case of a 75-year-old man with symptomatic chronic circumferentially prolapsed haemorrhoids and associated obstructive defaecation (Figure 1a). He had several failed attempts at surgical repair by general medical practitioners. The specialist’s knowledge that failed haemorrhoidectomy may be due to an associated rectal mucosal prolapse led to the successful approach of ablation and

Active Anti-Retroviral Therapy (HAART) the other non-AIDS related anorectal disorders requiring treatment predominate. The two factors most associated with poor wound healing are AIDS and a poor performance status (ASA or Korsakoff score) [3-5]. Two-thirds of AIDS patients needing surgical treatment for anorectal disease were rendered symptom-free. So treatment is well-worth doing as the survival is close to patients with AIDS who did not have anorectal disease [5,6]. This paper ascertained the short-comings and problems of proctology practice in a typical sub-saharan country (Cameroon) located at the West African coast (the Gulf of Guinea) through 5 case presentations.

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correction of the associated rectal mucosal prolapse with a modified Delorme's procedure akin to a stapled anopexy (Figure 1b).

**Problem 2**

**Myths and late presentations**

**Case:** Neglected incarcerated large rectal prolapse managed by Delorme's procedure

We report a case of a 64-year-old man with an incarcerated (irreducible) large rectal prolapse for which the treatment of choice might traditionally have been an Altimeter’s procedure (perineal excision of the prolapsed, coloanal anastomosis and repair of the pelvic floor) is reported (Figure 2a). A technically-difficult Delorme’s procedure (rectal mucosal excision and placation of the prolapsed muscle wall) was performed in this situation, with an excellent immediate outcome. Delorme’s procedure is safe and effective even in large incarcerated rectal prolapse. At 6 months, there was no recurrence of the rectal prolapse and continence much improved (Figure 2b).

**Problem 3**

**Obstetric anal sphincter (cloacal) injury**

**Case:** Secondary repair of severe chronic fourth-degree perineal tear due to obstetric trauma.

We report a case of a 32-year-old woman with anal incontinence as a result of severe chronic fourth-degree perineal tear secondary to birthing with complete disruption of the perineum. Secondary repair consisted of an anterior sphincter repair and levatorplasty rendered excellent immediate clinical result. The great majority of cloacal defects due to obstetric injury do not require tissue replacement, as there has been no tissue loss- it is merely in the wrong place (Figure 3a). These defects involve the introitus, anal canal, rectovaginal septum and anal sphincters. Repair is achieved simply by returning all displaced tissues to their normal anatomical position; this is facilitated by careful and accurate apposition of the main landmarks: the posterior fouchette, dentate line and anal verge. Repair of the sphincters would restore anatomical and cosmetic normality with usually very satisfactory cosmetic and functional outcome (Figure 3b).

**Problem 4**

**Not all anal lesions are malignant**

**Case:** Ano-rectal tuberculoma simulating cancer in the Acquired Immune Deficiency Syndrome (AIDS).

We report a case of ano-rectal tumour clinically diagnosed as cancer in a 36-year-old male AIDS patient. Pathological analysis of the biopsy specimen revealed tuberculosis (Figure 4). The tumour regressed enormously and the general condition of the patient improved during the follow up with anti-tuberculous and anti-retroviral therapy.
Obstetric (cloacal) injury is the commonest cause of anal incontinence in the developing world [11]. As prevention is not always possible, immediate recognition and adequate primary treatment is of importance. The outcome of anterior sphincter repair following obstetric trauma is good but long-term follow-up is required because of the underlying complexity of obstetric injury [12].

Anorectal pathology is one of the most common indications for surgery in HIV-positive patients especially as they have not been impacted by highly active anti-retroviral therapy [13]. However, not all tumour-like lesions that occur in immune depressed patients are neoplasia, and not all anal ulcers are anal fissure. This is illustrated in cases 4 and 5 respectively. Case 4 - ano-rectal tuberculoma simulating cancer in the acquired immune deficiency syndrome illustrates a rare localization of a common disease and highlights the importance of pathological analysis of specimens in diagnosis and management of patients even when clinical presentation may appear obvious 9. Case 5 demonstrates an HIV-associated ulcer which must be distinguished from an idiopathic anal fissure in HIV-positive patients and from other sexually transmitted diseases that cause anogenital ulcers as the treatments differ [10]. In resourced areas biopsies would identify treatable aetiologies of these ulcers, including Herpes Simplex Virus (HSV), cytomegalovirus, Treponema pallidum, mycobacterium, cryptococcus, Haemophilus ducreyi, Chlamydia trachomatis and cancer. As condyloma acuminatum and HSV infections are common secondary causes of pruritus ani in HIV/AIDS, biopsy of aperianal skin ulcer may identify the aetiology [14]. Surgical treatment of the HIV ulcer consists of debridement, unroofing cavities to eliminate trapping and intralesional steroid injection (80–160 mg methylprednisolone acetate in 1 ml of 0.25% bupivacaine) for the idiopathic HIV-associated ulcer. Repeat steroid injection is performed on patients with idiopathic HIV-associated ulcer who develop recurrent pain. HIV-associated ulcers are most commonly associated with patients with clinical AIDS and lower CD4 counts and it appears that since the introduction of HAART it is a less common clinical problem [1,3]. Symptomatic relief is the goal of treatment as HIV ulcer healing is not common [13].

Haemorrhoidectomy is indicated for AIDS patients who fail conservative treatment such as rubber band ligation, infrared coagulation, or sclerotherapy. Symptomatic improvement of the underlying anorectal pathology such as haemorrhoids, perianal sepsis, and ulcers may make delayed wound healing an acceptable complication in AIDS [15,16]. Sphincter preservation is of the utmost importance during all anal operations because male homosexuals have a tendency towards incontinence and the diarrhoea associated with opportunistic colonic infections is often severe. Setons are required for most fistulae and for the disintegrating perineum syndrome [1,4,17]. For idiopathic anal fissures, lateral internal anal sphincterotomy is appropriate for patients who fail conservative measures (warm soaks, stool softeners, topical diltiazem ointments, butulinum toxin injection), but do not have chronic diarrhoea or pre-existing incontinence. Alternatively a cutaneous advancement flap is preferred in those with a contraindication to sphincterotomy [1,17].

Other common problems not illustrated include anal warts in AIDS patients which tend to be aggressive, dysplastic and harder to eradicate. As with other viral infections, it is impossible to eradicate the causative human papilloma virus (HPV 6,11,16,18) infection by
surgical excision. For this reason surgical excision of condylomas is effectively performed more for relief of symptoms and cosmesis [18,19]. The premalignant anal carcinoma in-situ lesion may be rapidly progressive in immunocompromised patients (transplant recipients and HIV patients). Even so, it is a rare condition perhaps because the rate of progression is slower than the natural history of the HIV disease and there is a need for caution when considering treatment [20,21]. Radiotherapy may be helpful for symptomatic cases otherwise the patient is kept under observation. Chemoradiation is the treatment of choice for most invasive anal (squamous cell) cancers and a salvage Abdomino-perineal Resection (APR) can be useful if the CD4 count is > 200 [22]. Otherwise the perineal wound will not heal [23,24]. It should be noted that the AIDS-associated malignancies such as squamous cell carcinoma may be mistaken for a small benign ulcer, Kaposi’s sarcoma may resemble an ulcerated haemorrhoid and non-Hodgkin’s lymphoma may be mistaken for a small benign ulcer, Kaposi’s sarcoma may resemble an ulcerated haemorrhoid and non-Hodgkin’s lymphoma may resemble a perianal abscess [22,25,26]. The diagnosis of the latter can be made by a needle biopsy via the perineum and not inside the anal canal as the patient will develop a fistula in the lymphomatous tissue [26]. The pathophysiological consequences of advanced disease (e.g. immunosuppressant, malnutrition, infections and neoplasms) could dictate the scaling down of the magnitude of surgery to an acceptable and safe level [27].

References