

# *The evolving role of Surgery in IBD*

## *An interactive case presentation*

The Gastroenterology Foundation of South Africa  
IBD Interest Group  
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Ms PP

- 56 year old female
- First Presentation: 1/10/2001
- Referred by GP - 4 day history of perianal abscess + fever
  
- Episodes of diarrhoea
- Describes stool bubbling through vagina
- No extra-intestinal manifestations of IBD
- Smoker (since 25 years old; 40 cigarettes a day)

## Relevant history:

- Diagnosed at Kings College Hospital with Crohn's disease in 1968 following a haemorrhoidectomy
- 1969 - Gastroscopy: "Coarse mucosal pattern in the 2<sup>nd</sup> part of the duodenum "
  - Barium Meal: "There were several abnormal segments of small bowel strictures and in the right side deep ulceration. The terminal ileum was abnormal and narrowed."
- 1971 - Johannesburg General Hospital - Terminal ileal resection
- only complaint being diarrhoea.
- CaCX, radiation
- Recurrent perianal abscess which was managed by her GP
- COPD
- Medication: On HRT
- Occupation - Project manager at FNB - Stress at work
- No children
- Family history - diabetes

# Impact of changes in management over time

## Surgery

- Terminal ileal resection

## Medical therapy

- Steroids
- Immunosuppressants – Azathioprine + Methotrexate
- **Biologics – Infliximab**
- Antibiotics

## Examination

- Pyrexial
- BP 120/80
- HR 75
- Abdomen – previous scars
- PV – nil apparent
- Perineum: abscess on the left which was closely related to the anus and evidence of a chronic fistulous tract

## Assessment

- perianal abscess & complex fistula – in the background of Crohn's

- 2/10/2001
  - Drainage of perianal abscess + placement of Seton
  - Sigmoidoscopy + Biopsy
- 3/10/2001
  - Referred to gastroenterologist
  - therapy for Crohn's– Asacol 400mg tds, Methotrexate ; Flagyl 400mg tds
  - SSRI/HRT
- 5/10/2001
  - Healing but still a lot of pain
  - Continue Crohn's treatment
  - Additional analgesia

# Evolution of drugs

## Medical therapy

- Mesalazine widely used in the past now generally considered little benefit
- Now:
  - Steroids
  - Azathioprine
  - Methotrexate
  - Biologics – Infliximab
  - Antibiotics

- 24/10/2001
  - Colonoscopy – active disease
    - Reached caecum
    - Ileocolonic stenosis at anastomosis
    - Rectum – multiple areas of inflammation
    - Rectal and anal stenosis
    - Inflamed polyp anteriorly
- 8/5/2002
  - EUA / Relook perineum
  - Washout + Closure of rectal defect with monocryl 2.0
  - Laparotomy + ileostomy
- 27/8/2002
  - Closure of ileostomy
- 13/9/2002
  - Laparotomy – small bowel stenotic stricture – resection + anastomosis



- 5/8/2013

- EUA

- Rectovaginal fistula - tract from posterior vaginal wall to rectum at 12 '0 clock

- Placement of Seton

- Biopsy of fistulous tract - **moderately differentiated adenocarcinoma** 2cm granulomatous lesion on left labia

- Biopsy Small cystic deposit of mucinous secreting adenocarcinoma

- **Neoadjuvant chemo + DXT**

- 21/8/2013

- Gastroscopy mild gastritis; Hpylori negative

- Sigmoidoscopy mucosal lesion at anorectal junction - Biopsy – no features of malignancy

- 21/8/2013

- MRI

- Ulcer with Fistula tract at anterior anorectal junction
    - No definitive malignant masses but malignant ulcer is possible

- CT chest/abdomen/pelvis

- Diffuse emphysematous changes
    - No evidence of mets

- 13/1/2014

- **Abdominoperineal resection + posterior vaginectomy (pT1N0M0)**
  - **Permanent end colostomy**
  - **IGAP flap**

# Q1. Risk of anal adenocarcinoma in perianal fistulas secondary to Crohn's disease?

What is the incidence ?

- A. 20/1000 patient years
- B. 200/1000 patient years
- C. 0.2/1000 patient years
- D. 2/1000 patient years

## Answer C

### ECCO guidelines 2016

In patients with CD, adenocarcinoma complicating perianal or enterocutaneous fistula tracts can occur but is rare.

1. Meta-analysis of 20 clinical trial 1965-2008 – incidence of cancer relating to CD associated fistula was 0.2/1000 patient years.
2. 17 year follow up study of 6058 CD patients -> only 4 developed fistula associated adenocarcinomas

# Fistula-related adenocarcinomas

- can arise in patients with long-standing perianal CD
- may be associated with adenomatous transformation
  
- factors associated with malignant transformation
  - Early onset disease
  - Disease duration > 10 years
  - Chronic colitis/high inflammatory activity
  - Persistent chronic fistulas and stenosis
  - More common in females, tend to be younger

**Q2. What is the proportion of squamous carcinoma to adenocarcinoma in malignant crohn's perianal fistula?**

- A. SCC
- B. Adenomatous

**Answer B**

- A. SCC 31%
- B. Adenomatous 59%

Rectum 59%

## Q3. Frequency and modality of surveillance?

- Regular surveillance recommended for CD patients with chronic persisting perianal fistula to detect ano-rectal carcinomas
  - Routine biopsy of any suspicious lesion
  - Biopsy under anaesthesia
  - Curettage of fistula tract when needed

**Red flags**

**Long duration**

**Change in symptoms – new onset pain\*\*\***

# Treatment of Simple perianal fistulae

## Uncomplicated low anal fistula

- simple fistulotomy
- perianal abscess – incision + drainage

## Symptomatic simple perianal fistulae

- seton placement
- +antibiotics (metronidazole and/or ciprofloxacin)
- Recurrent/ refractory (not responding to antibiotics)
  - thiopurines or **anti-TNFs** can be used as second line therapy

# Treatment of Complex perianal fistulae

## Surgical treatment of sepsis

- incision + drainage of abscess
- seton placement
  - Timing of removal depends on subsequent therapy

## Medical treatment

- **first line therapy - infliximab** (adequate source control sepsis surgically)
- ciprofloxacin +anti-TNF improves short term outcomes
- anti-TNF treatment + thiopurines – to enhance the effect of anti-TNF



# Continuing therapy for perianal Crohn's disease

Combination of drainage and medical therapy = maintenance therapy

- Thiopurines
- Infliximab
- seton drainage

## **Medical treatment failure**

- considered for a diverting ostomy
- proctectomy

# Anti TNF therapy – Carcinogenic risk

- Lymphoma
- Leukaemia
- Carcinoid tumor
- Ca Colon
- Breast Lung
- Melanoma
- Non Melanotic skin cancers (BCC SCC)

TNF inhibitors: are they carcinogenic? Raval et al. Drug Healthc Patient Saf. 2010; 2: 241-247.

# References

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