



The ileostomy & internal pouch
Support Group

Pouch outcomes and complications

IA Pouch Information Day
November 5th 2016

Miss Laura Hancock BSc MD FRCS (Eng)
Consultant Colorectal Surgeon

Central Manchester University Hospitals 
NHS Foundation Trust


UHSM
Your Hospital



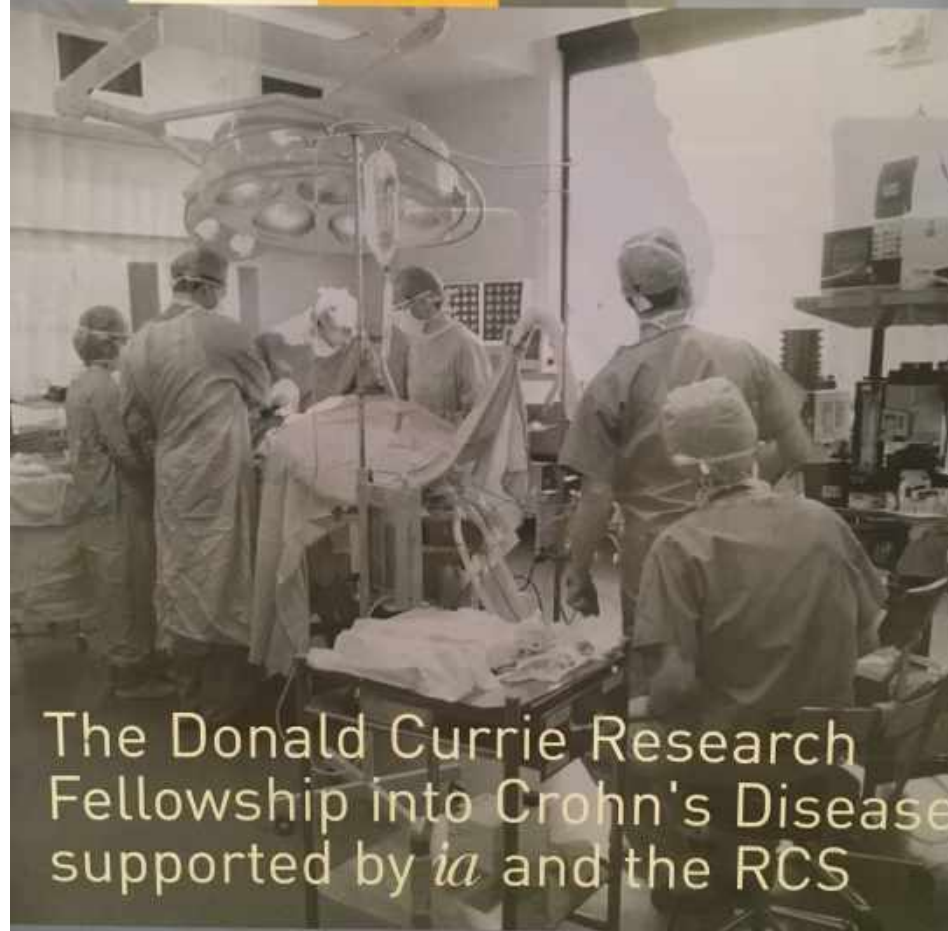
The Ileostomy and Internal
Pouch Support Group



COMMITTED TO
PROMOTING
& ADVANCING
THE HIGHEST
STANDARDS
OF SURGICAL
CARE FOR
PATIENTS

Closing date

Tuesday 30th March 200



The Donald Currie Research Fellowship into Crohn's Disease supported by *ia* and the RCS

For further details and an application form,
please contact

Research Department
The Royal College of Surgeons in England
25 Woburn Square, London WC1N 1AA, UK
Tel: 020 7628 8000

Through the generosity of the members and
friends of *ia* (The Ileostomy and Internal Pouch
Support Group), The Royal College of Surgeons
is delighted to invite applications to undertake
a one year research fellowship into any aspect
of Crohn's Disease.

and as an SHD who has passed the MRCS
papers and will sit the final part of the
MRCS(Eng) examination, you are eligible
to apply.

The Fellowship will cover salary, etc costs.

Genetics of IBD



UNIVERSITY OF
OXFORD



Ellen Currie and Dr Laura Hancock

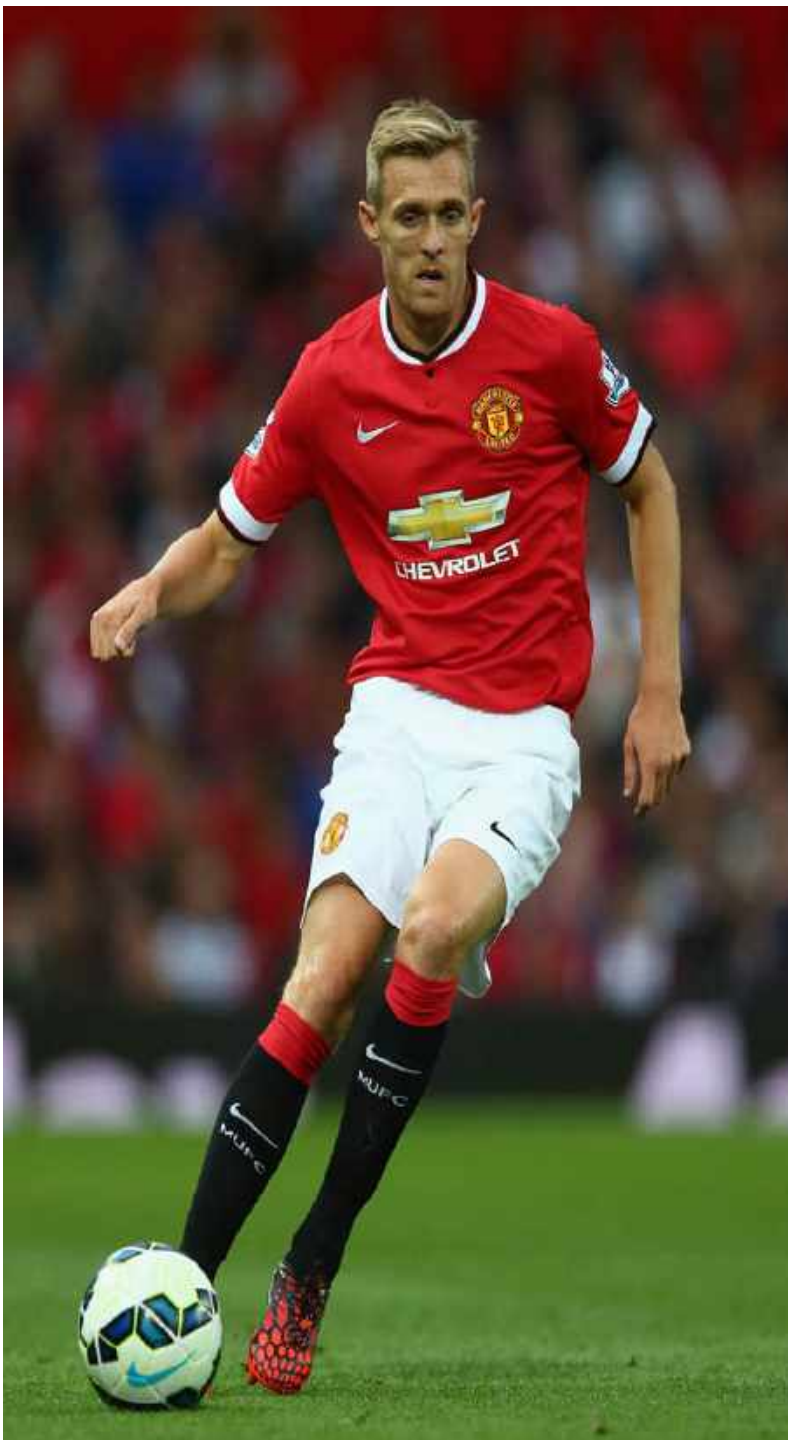
Outcomes and complications











ECCO Statement 4B (2014)

Completion proctectomy
with a pouch is standard
in patients with ulcerative
colitis

Pouch Outcomes

Function

Failure

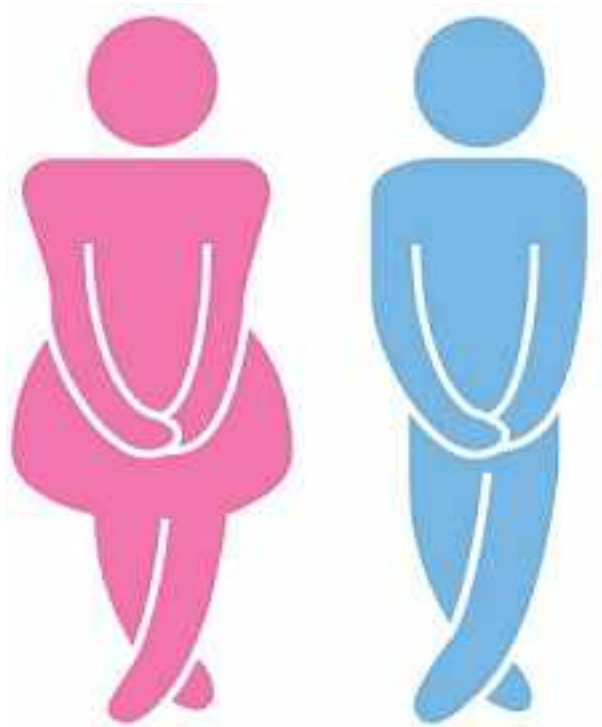
Fecundity

Normal pouch function

- Highly variable
- 5 - 8 times in 24 hours
- 5 x during day
- 1 x at night
- Ability to defer
- Loose stool (porridge consistency)

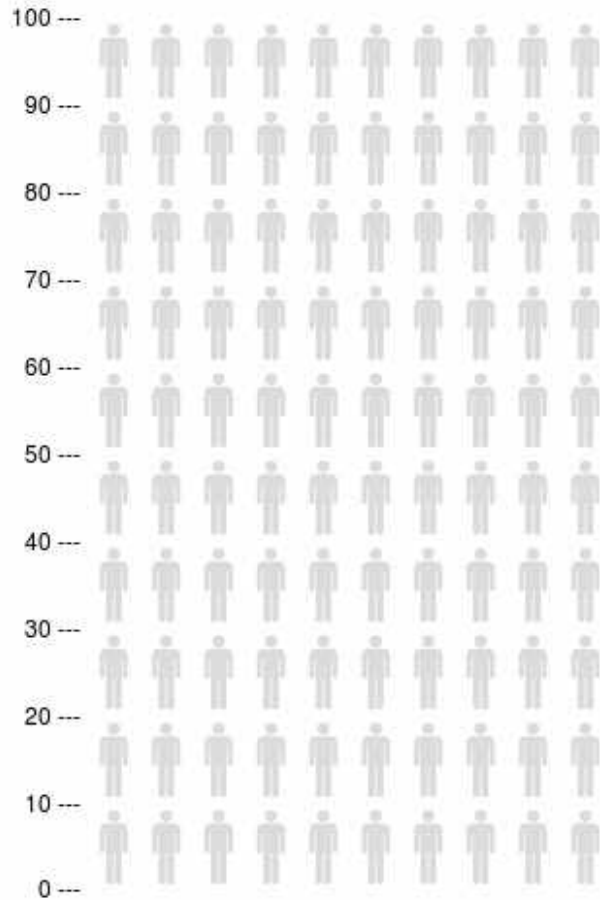


Function - Continence



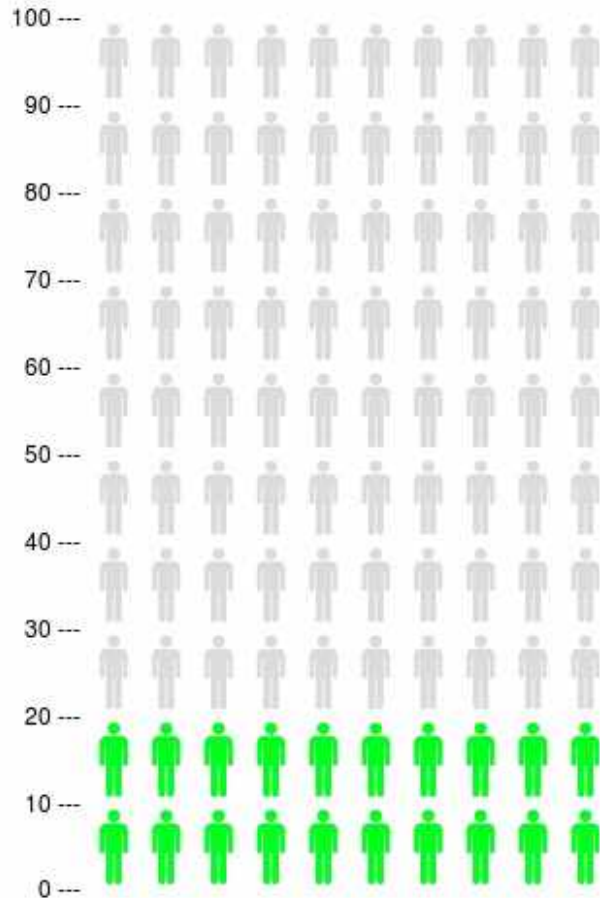
- Seepage
 - 10% during day
- Nocturnal seepage
 - 20% at 20 years
- Urgency
 - 10% 15 years

Pouch Outcomes



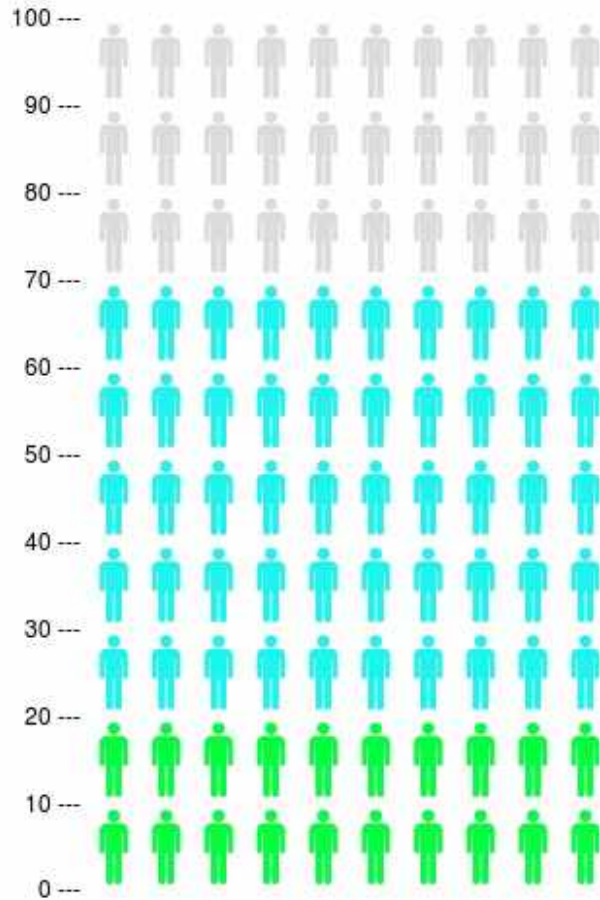
100 pouches

Pouch Outcomes



20% no problems

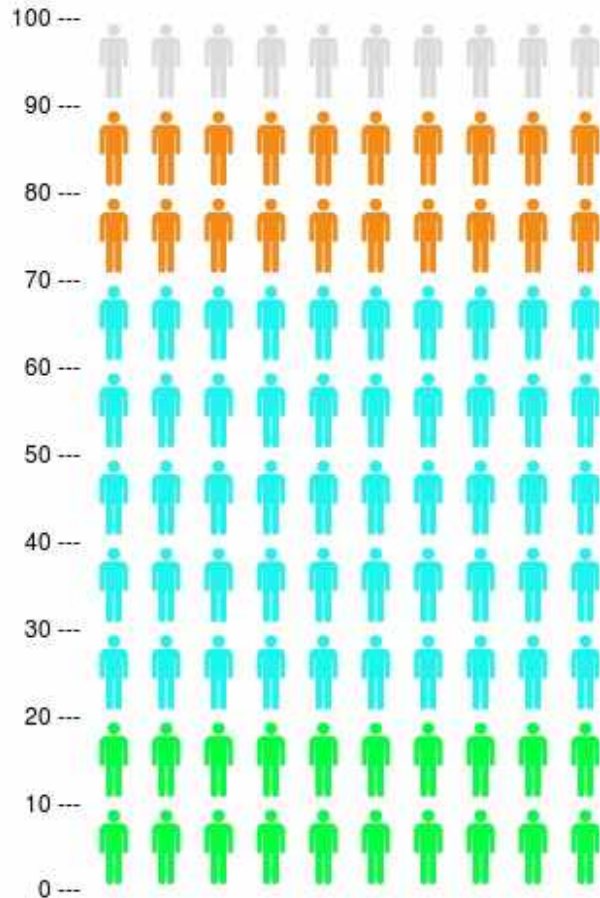
Pouch Outcomes



50% minor problems

20% no problems

Pouch Outcomes

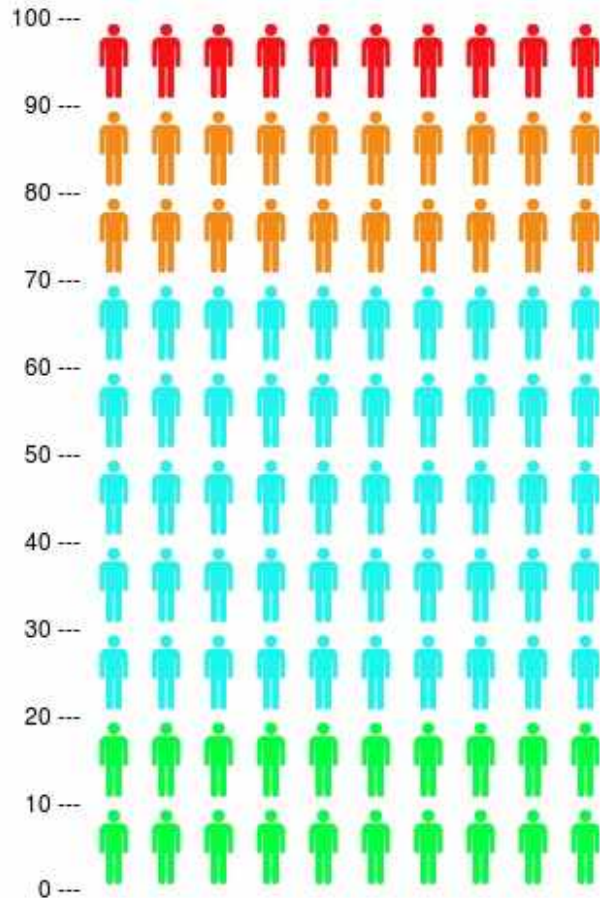


20% failing pouch

50% minor problems

20% no problems

Pouch Outcomes



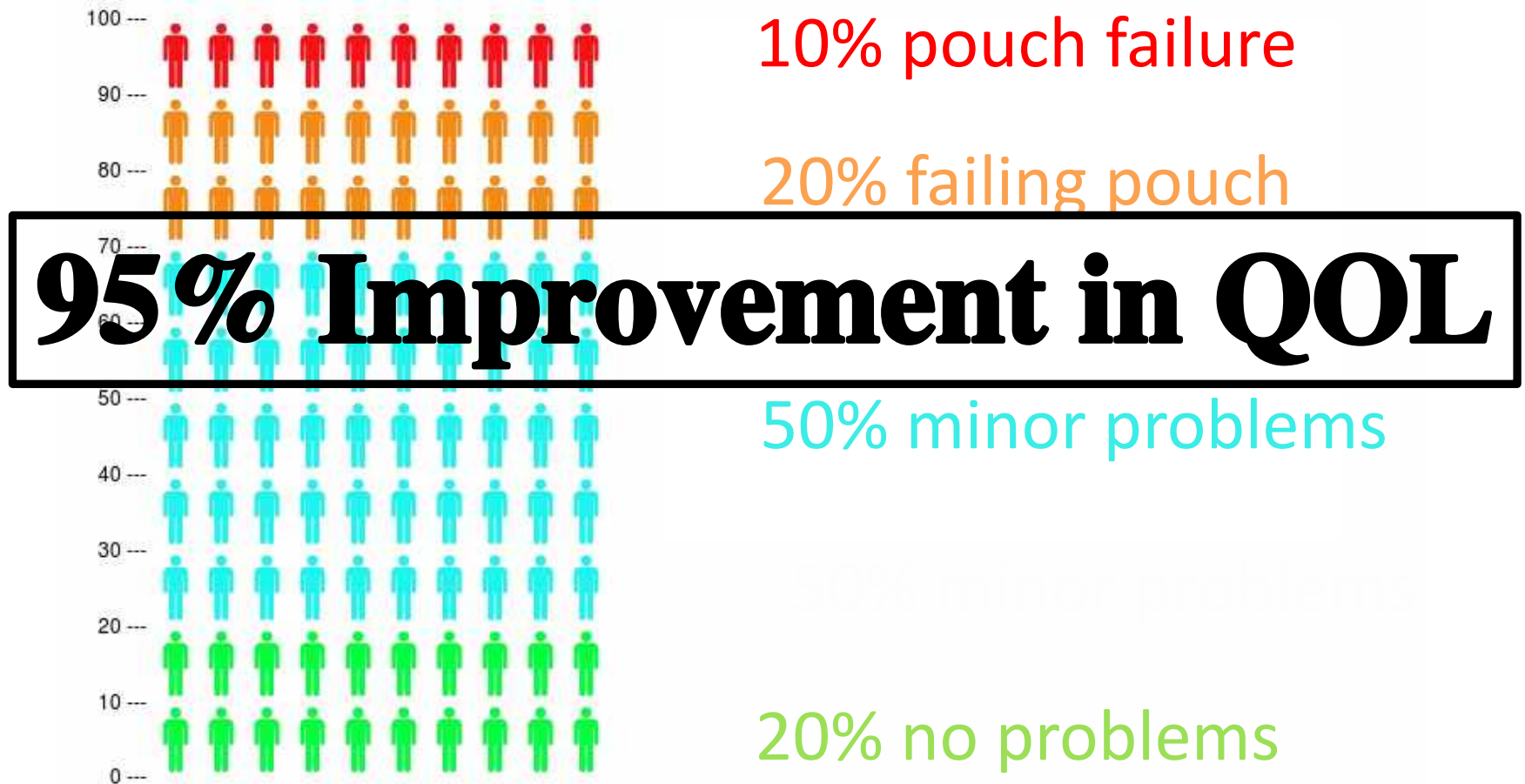
10% pouch failure

20% failing pouch

50% minor problems

20% no problems

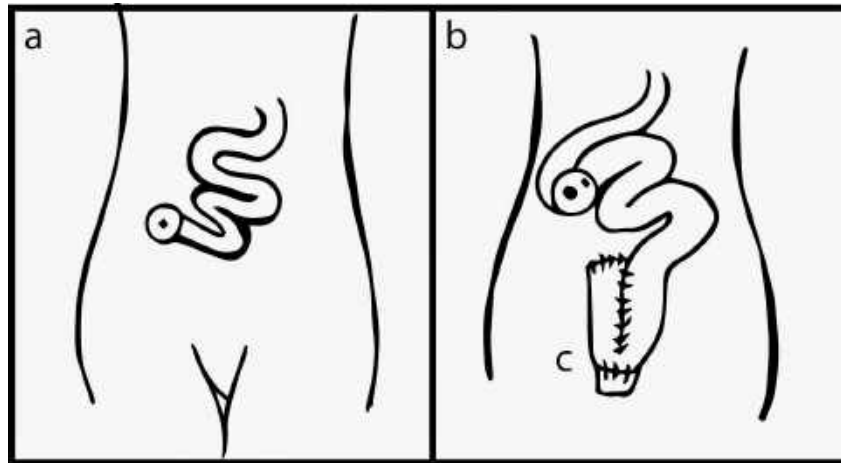
Pouch Outcomes



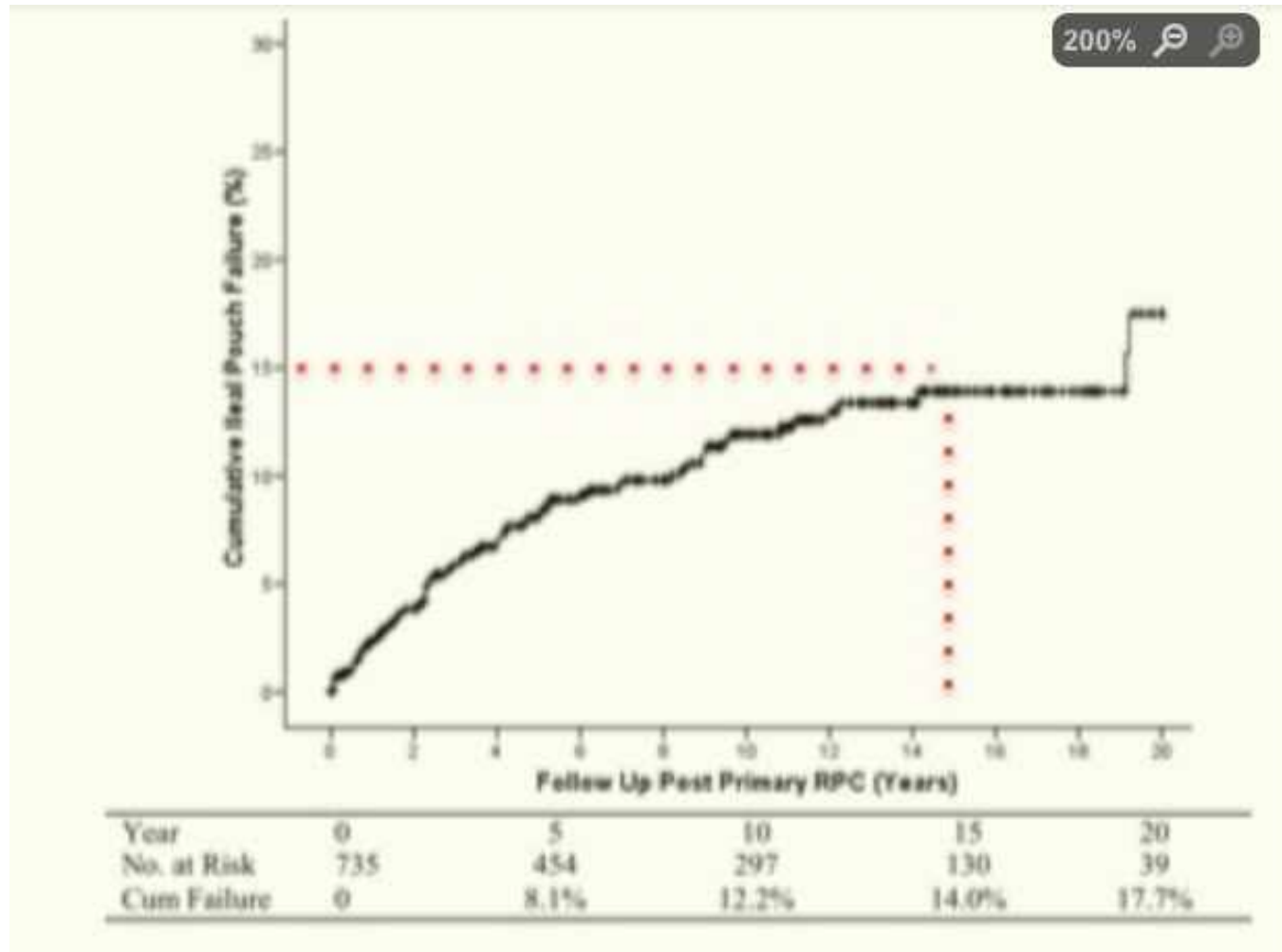
Pouches behaving badly

Pouch failure definition

Excision of the pouch or Indefinite defunctioning



Pouch failure



Causes of pouch failure

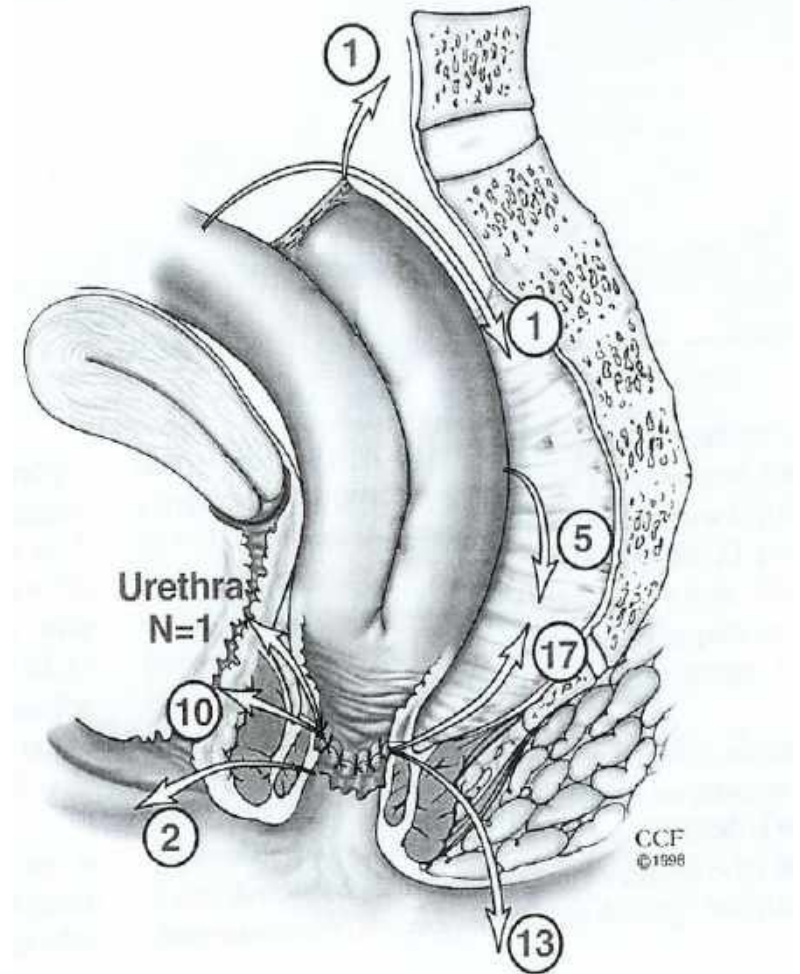
1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Causes of pouch failure

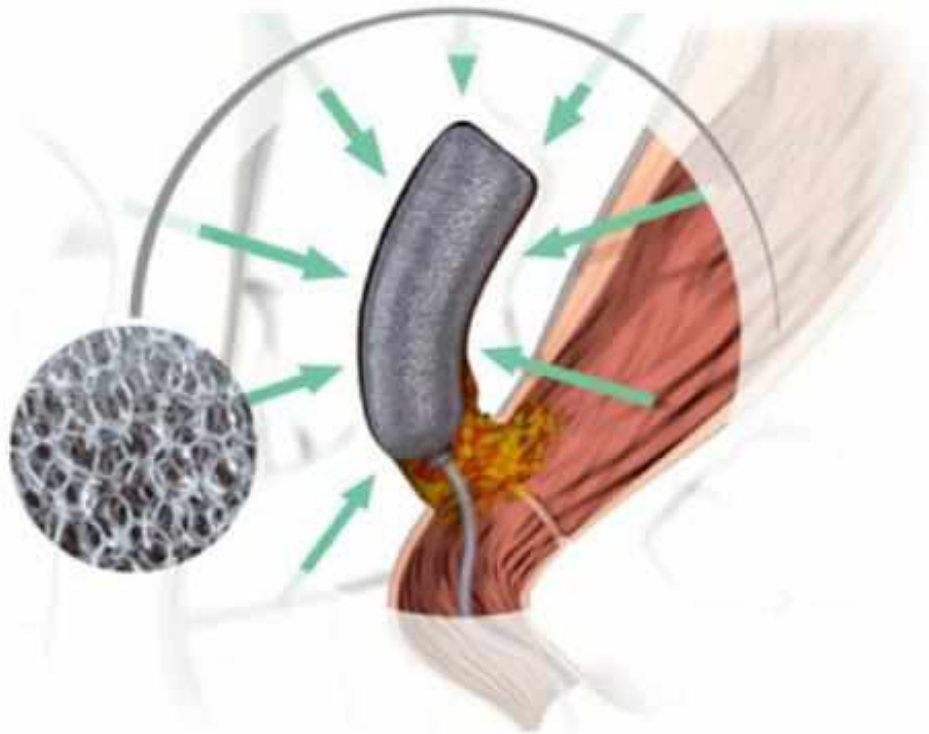
1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Sepsis

- Leakage at join 20%
 - 5 x long term failure
 - RFs – tension, poor blood supply, BMI >25, other diseases, steroids
- Fistulas 5-10%



Endosponge – vacuum assisted device



Causes of pouch failure

1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Structural problems

- Strictures – Hegar dilators
- Small bowel obstruction
- Small volume pouch
- Anal sphincter problems

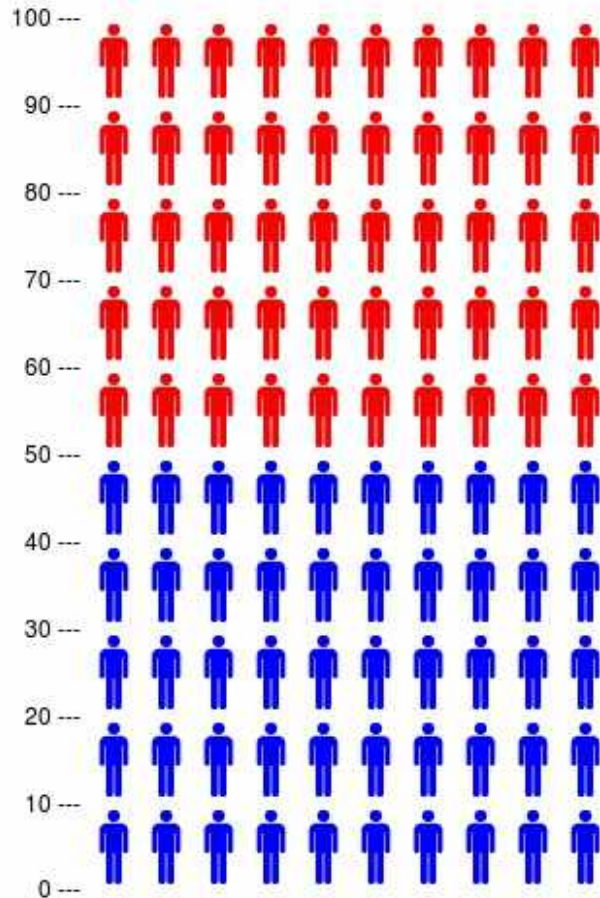
Causes of pouch failure

1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Inflammation

- Pouchitis
- Cuffitis
- Crohn's disease
- Infection

Pouchitis

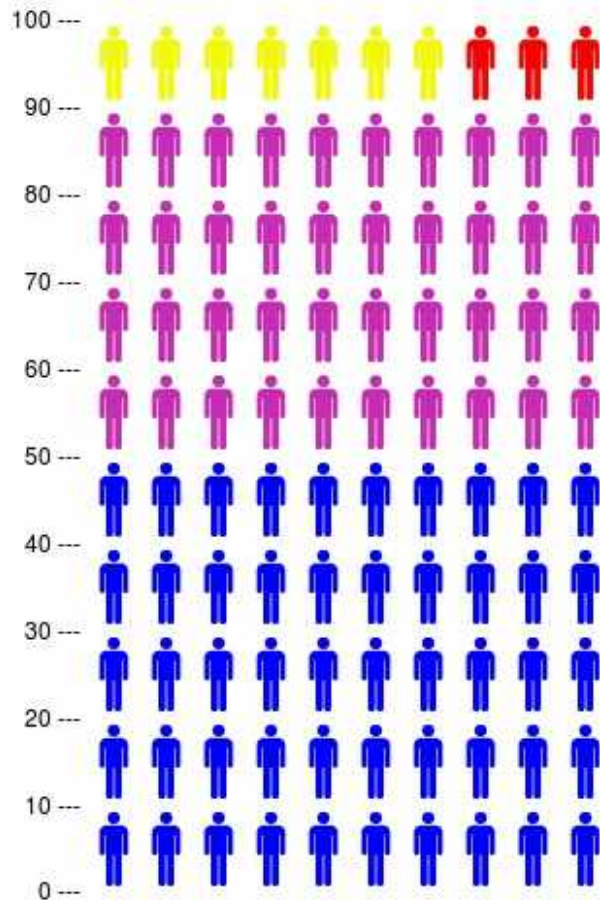


50% pouchitis

An inflammatory response to
changes within the pouch

Possibly triggered by changes in
intraluminal bacteria

Pouchitis



3% refractory pouchitis

7% recurrent inflammation

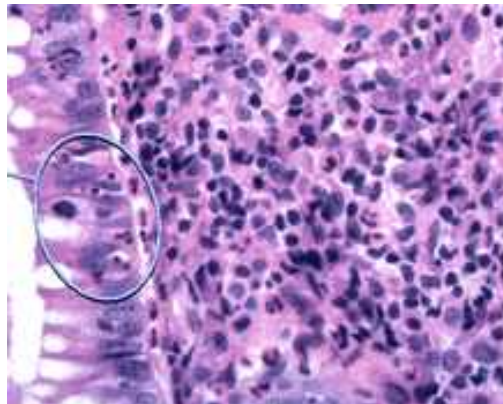
40% single episode

Symptoms

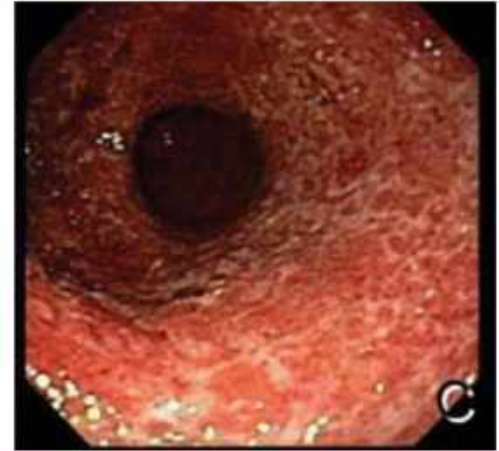
increased stool frequency
looseness
blood
urgency
incontinence
abdominal pain
fever
arthralgia

Pouchitis

Histology



Endoscopy



Mediocris: Dynamic Protonic Gastroenterology © 2013 BMJ Publishing Group Ltd All Rights Reserved

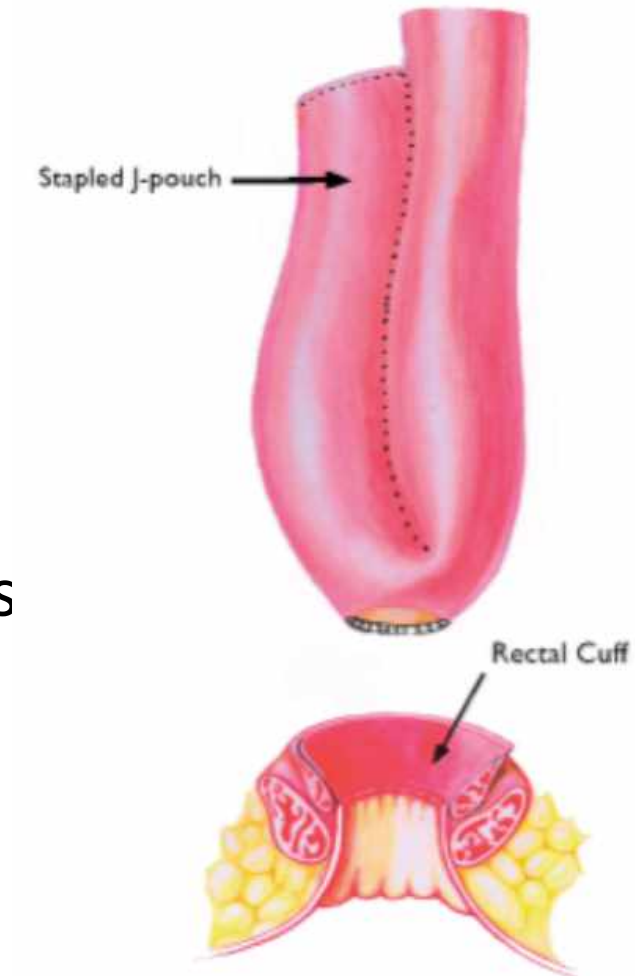
Treatment of pouchitis

- Cochrane review 2015
- Stop non-steroidal anti-inflammatory drugs
- Ciprofloxacin
- Metronidazole
- Rifaximin and lactobacillus no better than placebo



Cuffitis

- Symptoms (proctitis)
 - Burning, frequency
- Treatment
 - Mesalazine suppositories
 - Predsol suppositories
 - Revisional surgery



Causes of pouch failure

1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Risk of cancer

- Rare - <1% meta-analysis
- Risk factors – dysplasia or cancer in colon, PSC
- Annual pouch surveillance with RFs

Causes of pouch failure

1. Sepsis
2. Structural problems
3. Inflammation
4. Risk of cancer
5. Irritable pouch syndrome

Irritable pouch syndrome

- Symptoms in the absence of structural, endoscopic or histological pouch abnormalities
- 20% patients with pouch dysfunction
- Specialist nurse support, biofeedback, exclusion diets

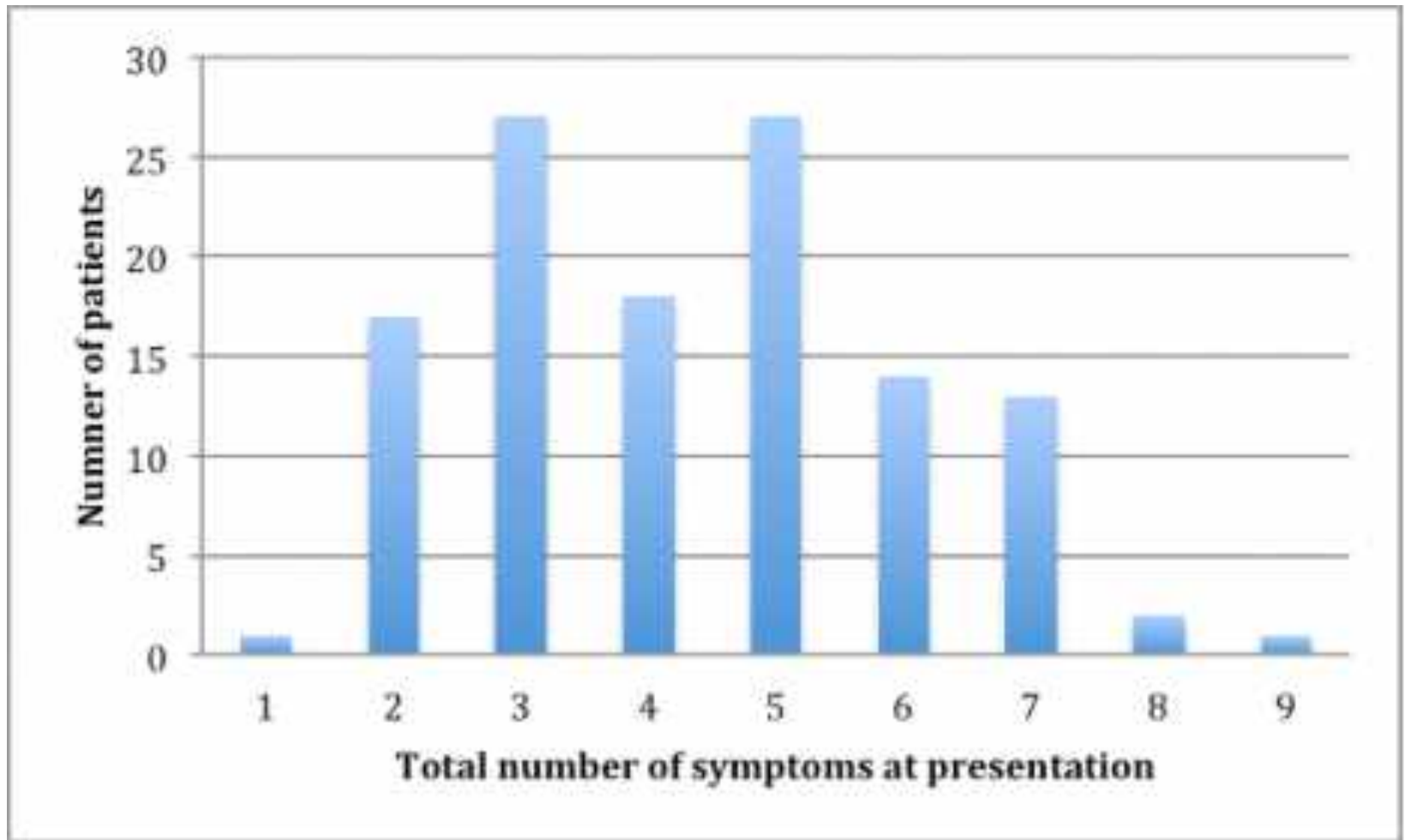
Symptoms of complications

- High pouch frequency and/or urgency
- Bleeding
- Abdominal pain
- Fever
- Lethargy
- Ineffective emptying of pouch
- Incontinence
- Symptoms of fistulae (wound breakdown, vaginal/peri-anal discharge, sepsis)

Symptoms

Symptom	N (%)
High frequency of defaecation	83 (69)
Abdominal pain	45 (37)
Incontinence	45 (37)
Perianal pain	44 (36)
Difficult evacuation	33 (27)
Bleeding from the anus	30 (25)
Urgency	24 (20)
Watery faeces	22 (18)
Mucous anal discharge	18 (15)
Faecal vaginal discharge	17 (14)
Purulent anal discharge	8 (7)
Vomiting	8 (7)
Enterocutaneous fistula	6 (5)
Purulent perianal discharge	5 (4)
Abdominal distension	5 (4)
Pouch prolapse	3 (3)
Weight loss	3 (3)
Pneumaturia/ faecaluria	2 (2)

Symptoms



My approach

- Find out if there is a problem that can be solved
- If so, solve it
- If not offer excision/diversion
- Manage expectations, identify needs
- Support

Pouch clinic

Table 2: Symptoms of pouch dysfunction	
Symptom	Differential diagnosis
High defecatory frequency	Pouchitis – primary or secondary to chronic pelvic sepsis Stricture Crohn's disease
Anal pain	Impaired continence and excoriation Sepsis Fistula Fissure
Incontinence	Sphincter insufficiency Structural abnormality with incomplete emptying
Difficult evacuation	Stricture Functional disorder

Investigations

- Abdominal examination
- Digital examination
- Bloods

Investigations

- **Inside the pouch** — EUA, Pouchoscopy, Pouchogram/MRI
- **Outside the pouch** — MRI/CT
- **Below the pouch** — Anal physiology/USS/proctogram
- **Above the pouch** — MRE/SB follow through, coeliac screen, SeCAT test

Table 3: Management of pouch dysfunction			
Investigation	Diagnosis	Non-surgical management	Surgical management
Assess inside the pouch			
EUA	Stricture	Dilate with Hegar dilators	Pouch advancement flap Re-do surgery
Pouchoscopy and biopsy	Pouchitis	Treat for pouchitis	
	Cuffitis	Treat as proctitis	Re-do surgery
Pouchogram (+/- MRI)	Ileal pouch rectostomy	Treat proctitis	Re-do with handsewn IPAA
	Long efferent limb		Revision with excision of redundant limb
	Small volume pouch		Revision with augmentation of pouch or re-do surgery
	Twisted pouch		Excision of pouch and re-do
	Small bowel obstruction		Re-do or revision surgery
Assess outside the pouch (pelvis)			
Pelvic MRI / CT	Pelvic collection	Drain sepsis	Defunctioning ileostomy
	Fistula	Seton	Mucosal advancement flap or interposition flap
Assess below the pouch (pelvic floor)			
Endo-anal ultrasound	Weak sphincter	Medical management	Consider ileostomy and pouch
Anal physiology		Biofeedback	excision
Defecating pouchogram			
Assess above the pouch (rest of the bowel)			
Small bowel follow-through	Crohn's disease	Medical management	Consider ileostomy and pouch
Magnetic resonance enterogram	Coliac disease		excision
Coeliac screen	Bile salt malabsorption		
Bile salt malabsorption			

Pouch Outcomes

Function

Failure

Fecundity

Fecundity

- The ability to produce offspring
- Global infertility rate 20%
- Open pouch surgery increases infertility 50%
- Laparoscopic pouch surgery better 30%



- C-section recommended

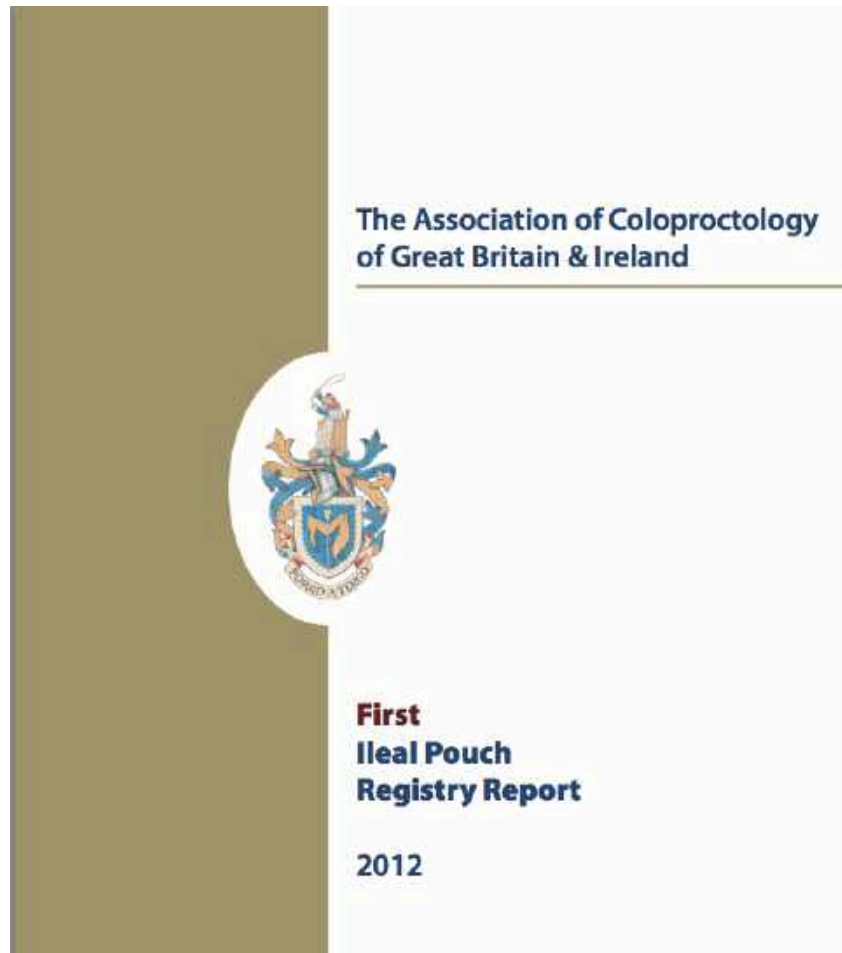
Sexual function

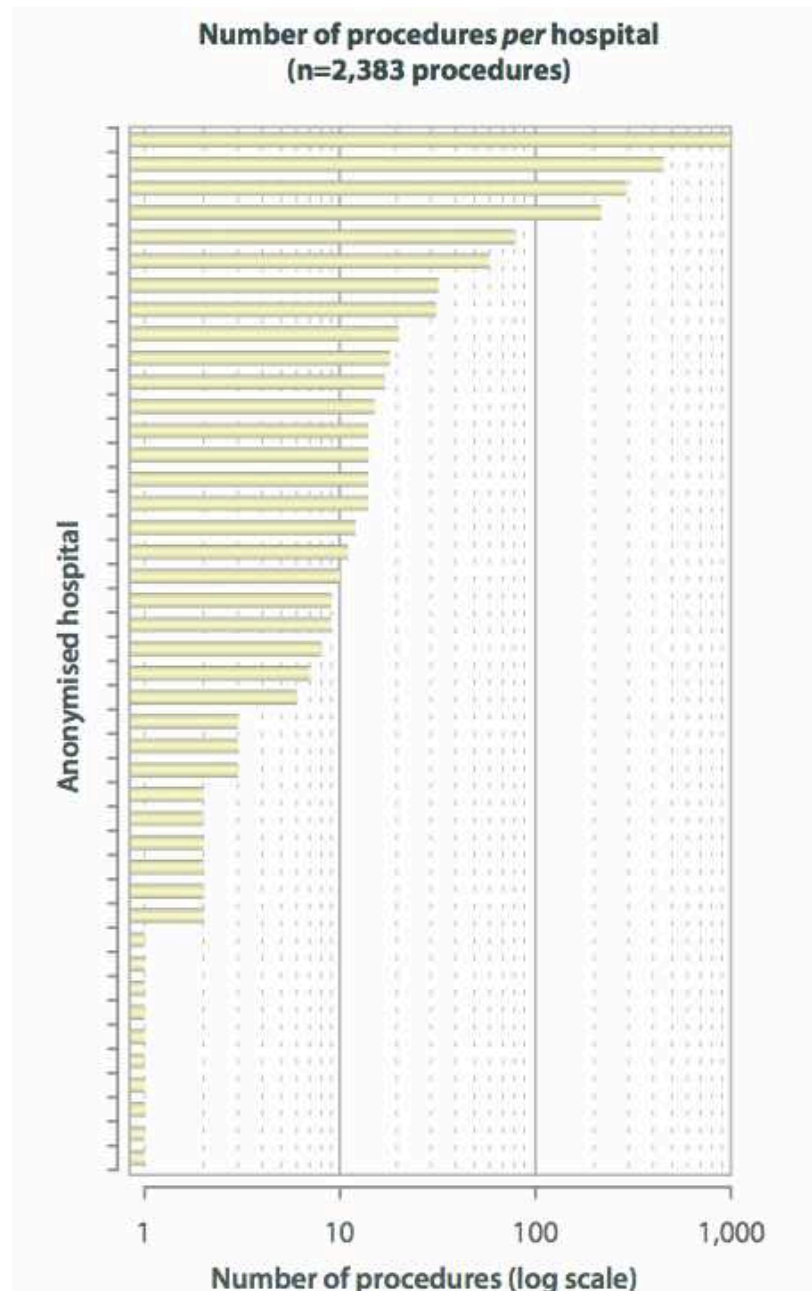
2.10.1.1. ECCO Statement 7A

Active UC is associated with poor sexual function. In general terms sexual function improves after IPAA. However proctectomy can risk impotence and loss of ejaculatory function in men and reduced fecundity and dyspareunia in women (EL2). Sexual function should be discussed when counseling patients about treatment options (EL5)

1 in 7 patients with a pouch have sexual dysfunction

Surgical volume and outcome

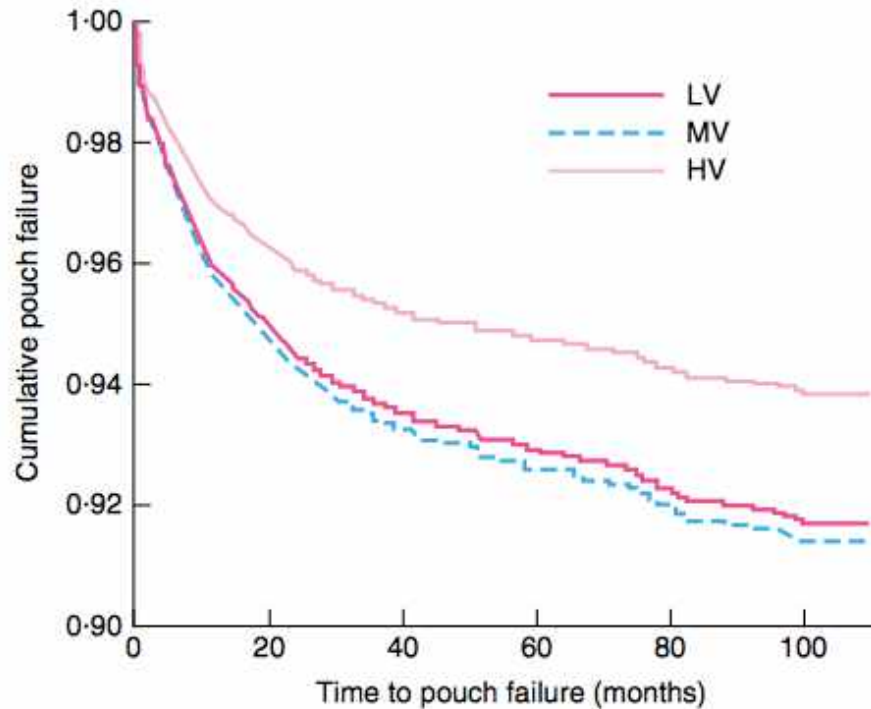




Disparity in experience

ACPGBI Pouch Registry 2012

Volume and pouch failure



- >60% performed at low or med volume centres (0.1-3.5/yr)

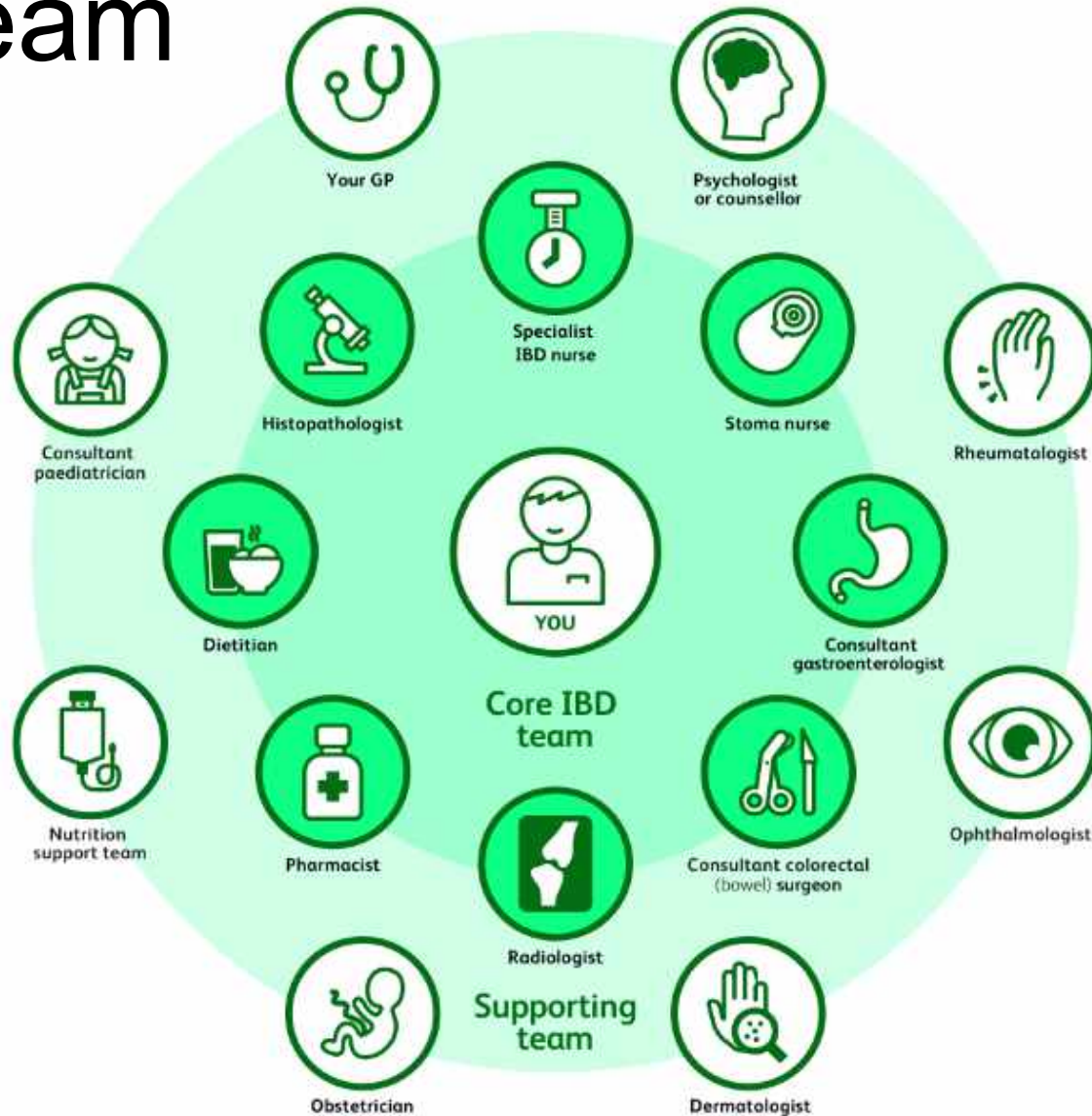
ECCO Guideline



European
Crohn's and Colitis
Organisation

- There is clear evidence that high volume surgeons in high volume units achieve lower pouch failure rate as well as better pouch salvage
- Patients should be referred to centres that perform **at least 10 pouches per year**

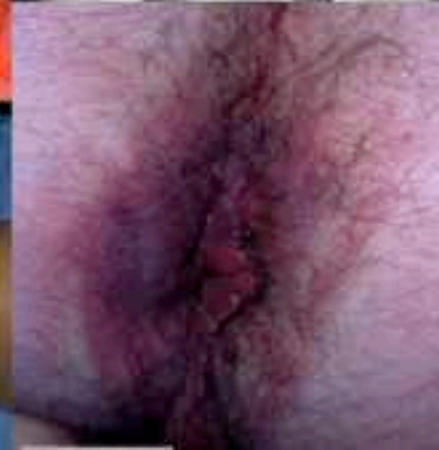
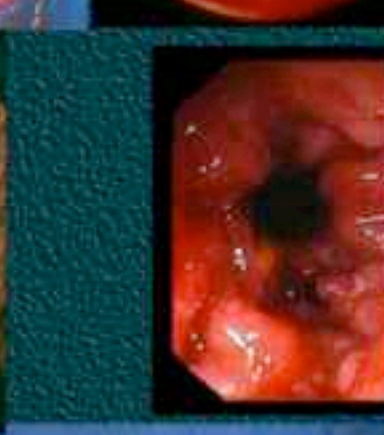
IBD Team



Patient first

- Patient experience
- Patient education
- Patient support

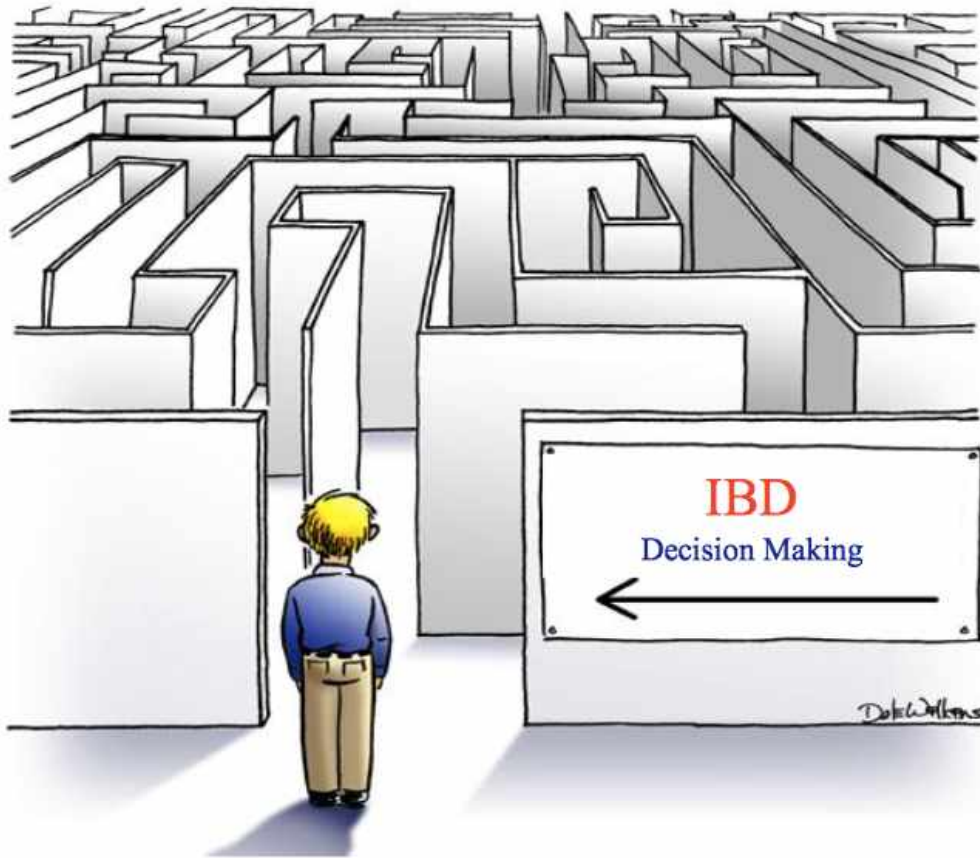




Summary

- In one generation we have seen..
- The creation of pouch surgery
- Technical refinement
- Advances in medical therapy
- The age of re-do surgery

Get it right first time!



- Right operation
- Right patient
- Right time



Thank you

