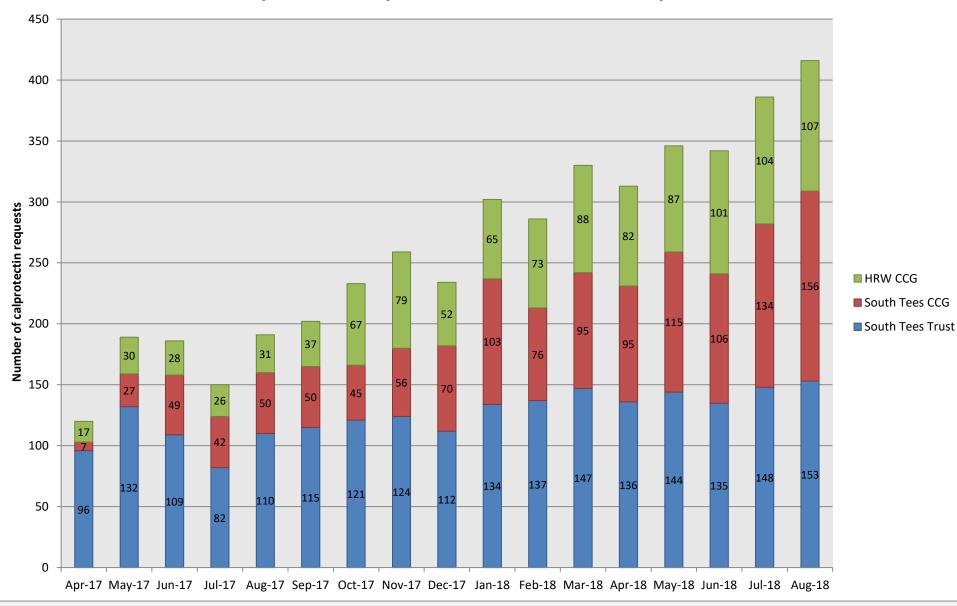
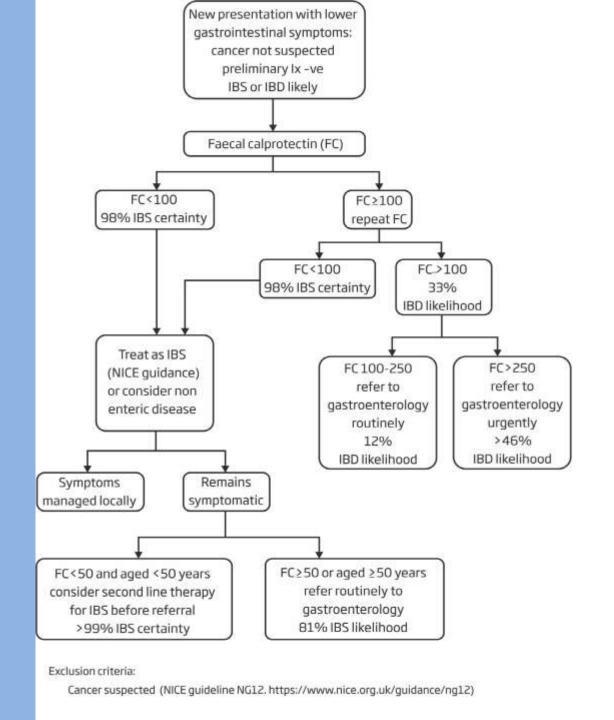
Faecal calprotectin The South Tees experience

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Calprotectin requests - Clinical Biochemistry, JCUH



HRW data analysis – June 18

- 101 tests on 94 patients
- Age range 16-85
- Median 45 (IQR 32-60) years
- 24 patients outwith recommended FC age range (22 >60 yrs, 2 <18 yrs)

Inclusion criteria:	 Adult 18-60 years New lower gastrointestinal symptoms
	 Normal or negative initial workup (FBC, U&E, Cr, TFT,CRP, Ca, coeliac screen) Stool culture / C. difficile screen as appropriate.

Practice locations

Aldbrough St John	1
Ayton Health Centre	5
Catterick Village H.C.	11
Central Dales Practice. Hawes	2
Friary Surgery	7
Glebe House Surgery	8
GMC Catterick Garrison	2
Harewood Medical Practice	7
Lambert Med. Cen.	14
Leyburn Medical Practice	3
Mayford House	8
Mowbray house	10
Reeth surgery	5
Scorton Surgery	2
Stokesley Health Centre	4
Thirsk H.C.	7
Topcliffe Surgery	5
Grand Total	101

Indications for FC testing- HRW June 18

Indication	Ν
Diarrhoea	28
Abdominal pain	20
Altered bowel habit	8
Bloating	2
Bloody stools	4
Known IBD	2
?IBS	1
Rectal bleeding	3
Weight loss	1
Unknown	25

Clinical outcomes-HRW June 18

- 25 patients with final FC >100; 69 <100
- 2 known IBD patients excluded from analysis
- 13 patients underwent colonoscopy- 11 with FC >100
- No false negatives to date
- <u>10 patients with FC>100 with no secondary care investigations</u>

Final FC	IBD/ Other enteric diagnosis	IBS	
>100* 9 <100 0		4	13
		69	69

*10 patients not investigated to date

- Sensitivity 1.00 (0.67-1.00
- Specificity 0.95 (0.91-0.95)
- PPV 0.69 (0.47- 0.69)
- NPV 1.00 (0.96- 1.00)

FC >100- HRW June 18

Age	Result	Diagnosis/ investigations
29	119	Probable coeliac
34	134	Normal colonoscopy
44	148	No 2 care investigations to date
29	189	No 2 care investigations to date
38	211	Normal colonoscopy
70	214	No 2 care investigations to date
53	232	No 2 care investigations to date
34	257	Normal colonoscopy
81	264	Gastroenterology review
78	271	Gastroenterology review
77	363	Angiodysplasia of caecum
60	393	No 2 care investigations to date
85	578	Rectal thickening a/w flexi
56	614	Known IBD
76	714	No 2 care investigations to date
27	808	Known IBD
70	852	Small colonic polyp
66	857	?IBD a/w VCE
60	1168	No 2 care investigations to date
63	1305	No 2 care investigations to date
25	1417	IBD
76	2829	Campylobacter
35	2948	No 2 care investigations to date
16	3438	No 2 care investigations to date
54	5273	Normal colonoscopy

South Tees- June 18

- 107 tests on 104 patients
- Age range 13- 86
- 19 patients > 60 yrs, 3 patients<18 yrs
- Median age 40 (IQR 27- 51)

Practice locations

378 Linthorpe Rd	11
502 Normanby Rd - Lone	3
Brotton Surgery	4
Cambridge Medical Group	2
Crossfell Health centre	4
Discovery Practice (18)	1
Huntcliff Surgery	8
Manor House Surgery	6
Park Surgery One Life	4
Parkway Surgery C Newham	1
Redcar Primary Care Hospital	2
The Saltscar Surgery	3
Westbourne Medical Centre	1
The Green House Surgery	2
Zetland Medical Practice	4
The Ravenscar Surgery	6
Bentley Medical Practice	3
Garth Surgery Guisborough	9
Staithes Surgery	3
Martonside Medical Centre	2
The Erimus Practice	1
S Grange Medical Centre	1
Newlands Medical Centre	2
Springwood Surgery	1
Hillside Practice Skelton	1
Village Medical Centre	2
Kings Medical Centre	1
Lagan Surgery	1
Grand Total	106

Indications for FC testing-South Tees June 18

Indication	Ν
Diarrhoea	53
Abdominal pain	18
Bloating	11
Altered bowel habit	1
Known IBD	2
Fatigue	2
Rectal bleeding	5
Constipation	2
Weight loss	2
Unknown	8

Clinical outcomes- South Tees June 18

- 13 patients with final FC >100; 91 patients <100
- 3 known patients with IBD excluded from further analysis
- 17 patients underwent colonoscopy- only 6 with raised FC
- 2 false negatives to date
 - Age 52 weight loss; FC 78; 5cm caecal lesion with HGD underwent rt hemicolectomy
 - Age 42 diarrhoea & bloating; FC 36; active proctitis to 20cm
- 1 patient with FC>100 with no secondary care investigations

Final FC	IBD/ Other enteric diagnosis	IBS	
>100*	5	4	9
<100	2	90	92

*1 patient not investigated to date; 3 known IBD excluded

- Sensitivity 0.71 (0.33-0.94)
- Specificity 0.95 (0.93- 0.98)
- PPV 0.56 (0.26- 0.73)
- NPV 0.98 (0.95- 0.99)

FC >100 South Tees June 18

Age	FC	Diagnosis/ investigations
49	262	No investigations to date
70	147	Normal colonoscopy
43	164	Surgical opinion awaited
21	182	Known IBD
63	209	Normal colonoscopy
58	213	Known IBD
32	535	Awaiting colonoscopy
36	656	Known IBD
39	688	Normal colonoscopy & CT
60	787	?lymphocytic colitis
83	960	Possible CBD stone/ ampullary tumour
57	4061	sigmoid polyp <10mm
28	4141	IBD

Overall FC accuracy June 18

Final FC	IBD/ Other enteric diagnosis	IBS	
>100*	14	8	22
<100	2	159	161

*11 patient not investigated to date; 5 known IBD excluded

- Sensitivity 0.88 (0.64- 0.98)
- Specificity 0.95 (0.93- 0.96)
- PPV 0.64 (0.47-0.71)
- NPV 0.99 (0.96- 0.99)

Summary/ Discussion points

- Increasing uptake of FC in HRW and South Tees CCGs
- Appears to have similar accuracy to York experience
- Considerable FC testing in patients outside recommended age range of 18-60
- Some high FCs perhaps not being Ix in timely manner