On line appendix

1. MRI Scoring of Crohn's disease activity

Score	0	1	2	3
Mural	1–3 mm	>3–5 mm	>5–7 mm	>7 mm
thickness ^a				
Mural T2	Equivalent	Minor	Moderate	Marked
signal ^b	to normal	increase in	increase in	increase in
	bowel wall	signal-bowel	signal-bowel	signal-bowel
		wall appears	wall appears	wall contains
		dark grey on	light grey on	areas of
		fat saturated	fat saturated	white high
		images	images	signal
				approaching
				that of
				luminal
				content
Perimural T2	Equivalent	Increase in	Small fluid	Larger fluid
signal	to normal	mesenteric	rim (≤2 mm)	rim (>2 mm)
	mesentery	signal but no		
		fluid		
Enhancement ^c	Equivalent	Minor	Moderate	Marked
	to normal	enhancement	enhancement	enhancement
	bowel wall	 bowel wall 	 bowel wall 	- bowel wall
		signal greater	signal	signal
		than normal	increased but	approaches
		small bowel	somewhat	that of
		but	less than	nearby
		significantly	nearby	vascular
		less than	vascular	structures
		nearby	structures	
		vascular		
		structures		

^a Measured using electronic calipers.

- ^b Compared to normal small bowel.
- ^c Compared to nearest vessel.

3. Histological Acute Inflammatory Score (AIS) (based on Borley et al [21]

	1	
Mucosal ulceration	0 – None	
	1 – Apthous ulcer (<7 mm)	
	2 – Linear ulcer	
	3 - Confluent-large ulcer	
Oedema	0 – None	
	1 – Mild	
	2 –Moderate	
	3 – Severe	
Neutrophils	0 – No increase	
	1 – Mild increase	
	2 – Moderate increase	
	3 – Marked increase	
Depth of neutrophilic penetration	0 – None	
	1 –Mucosa	
	2 – Submucosa	
	3 – Muscularis	
	4 – Serosa/extramural fat	