

Supplementary Materials

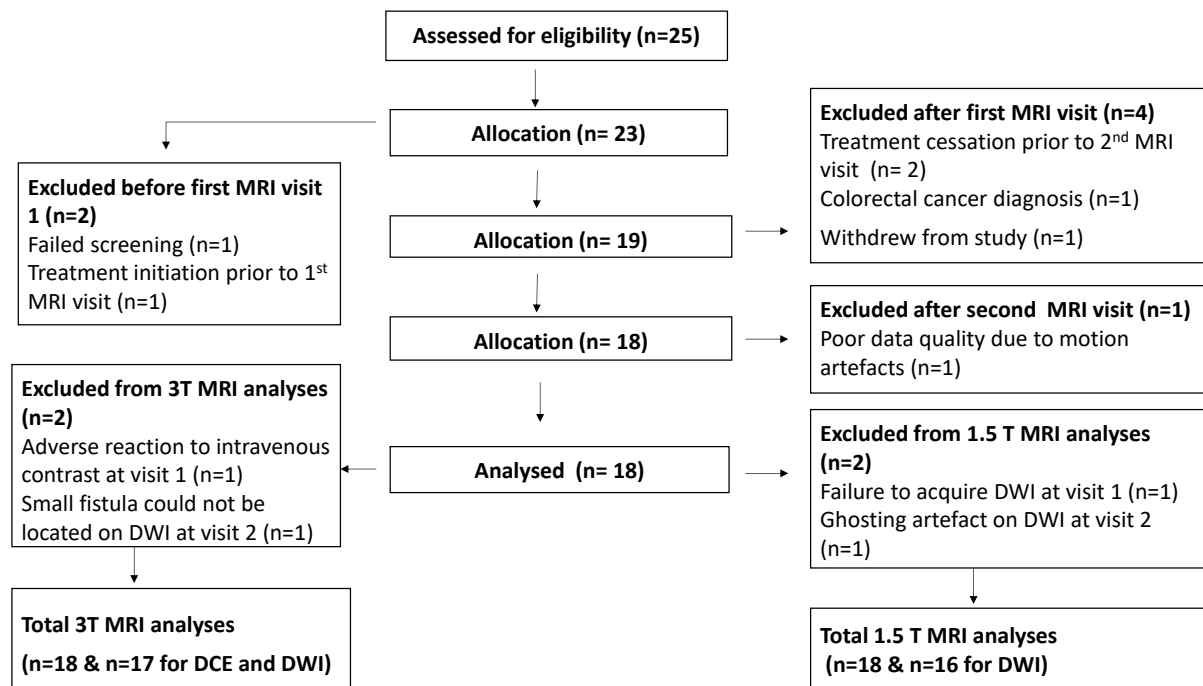


Figure S1. Consort Diagram for MAP study.

Table S1. Participants demographic and clinical data for all subjects included in the MRI analysis.

Patient No.	Age (Years)	Sex	PDAI Visit 1	PDAI Visit 2	CRP Visit 1	CRP Visit 2	VAS Visit 1	VAS Visit 2	Rectal Involvement	Fistula Complexity	Disease Location	H/O Surgery	Stoma	RV	Fistula
1	27	M	5	4	10	5	9	11	No	Complex	2	No	No	No	No
2	24	M	8	0	47	5	22	7	Yes	Complex	2	Yes	No	No	No
3	40	F	6	7	5	5	7	7	No	Simple	3	No	No	No	No
5	37	F	7	4	5	5	7	9	No	Simple	2	No	No	No	No
6	45	F	8	2	12	5	22	11	Yes	Complex	2	No	No	No	No
7	38	F	5	3	6	5	8	13	No	Simple	3	No	No	No	No
8	23	M	6	5	27	5	20	14	Yes	Complex	1	No	No	No	No
9	27	M	11	8	5	5	15	7	Yes	Simple	2	No	No	No	No
11	52	F	11	1	74	5	14	7	Yes	Simple	3	No	No	No	No
12	64	F	14	10	22	5	16	13	Yes	Complex	3	Yes	Yes	No	No

13	49	M	11	4	20	5	13	12	No	Complex	3	Yes	No	No
14	53	F	14	9	15	8	22	14	Yes	Complex	3	Yes	Yes	Yes
15	33	F	8	4	8	5	20	11	Yes	Complex	2	No	No	No
16	39	F	7	3	5	5	16	12	Yes	Simple	1	Yes	No	Yes
17	52	F	8	6	26	5	13	10	No	Complex	2	No	No	No
18	18	F	6	2	2	1	7	18	No	Simple	3	No	No	No
19	39	F	9	10	20	26	22	22	Yes	Complex	3	No	No	No
20	29	F	8	9	1	1	17	19	no	Simple	3	Yes	No	No

VAS: Van Assche Score; RV: Recto-vaginal.

Individual Data Plots before and 12 weeks after treatment.

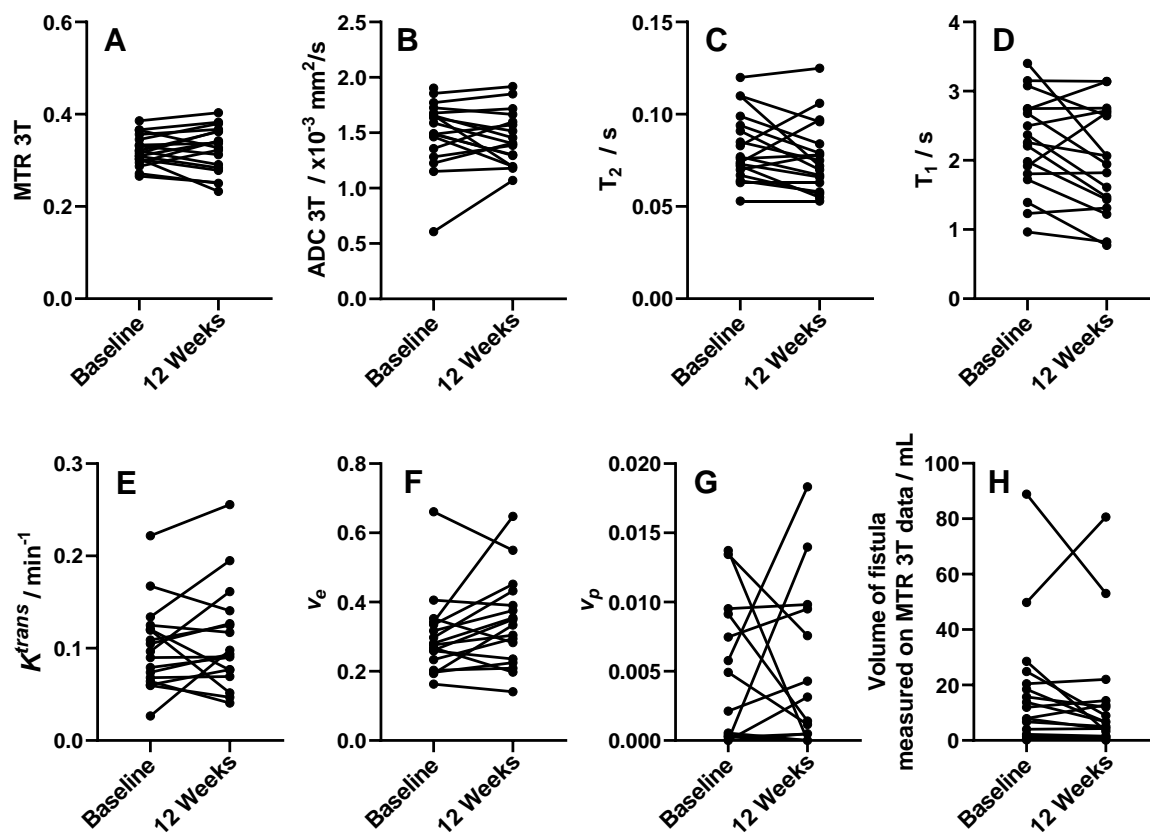


Figure S2. Individual data plots for 3T parameters measured before (Baseline) and after 12 weeks of treatment in the diseased tissue. (A) MTR, (B) ADC, (C) T2, (D) T1, (E) K^{trans} , (F) v_e , (G) v_p (H) Fistula volume measured from MTR data.

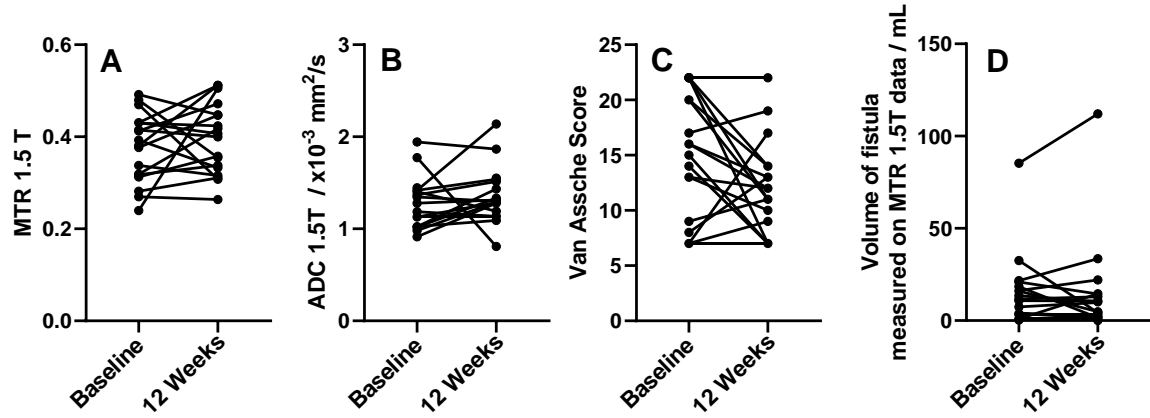


Figure S3. Individual data plots for 1.5T parameters measured before (Baseline) and after 12 weeks of treatment in the diseased tissue. (A) MTR, (B) ADC, (C) Van Assche Score, (D) Fistula volume measured from MTR data.

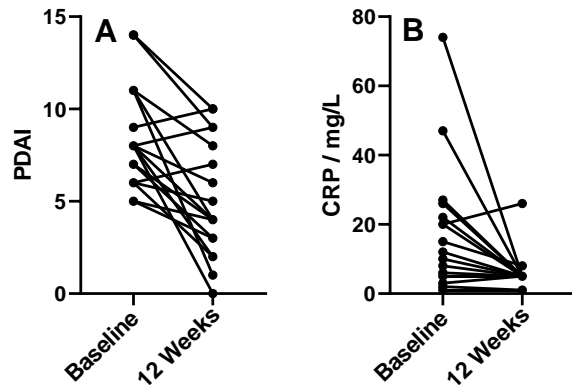


Figure S4. Individual data plots for clinical parameters measured before (Baseline) and after 12 weeks of treatment. (A) PDAI score, (B) CRP.

Table S2. MRI Parameters Pearson Correlation Coefficient r .

3T MRI Parameter Correlation							
	ADC 3T ♦	T ₂	T ₁ [*]	K^{trans} [*]	v_e [*]	v_p [*]	VAS
MTR 3T	-0.51 -0.72 to -0.21	-0.59 -0.77 to -0.33	0.09 -0.25 to 0.42	-0.66 -0.82 to 0.42	-0.34 -0.61 to 0.00	-0.52 -0.73 to -0.22	-0.30 -0.57 to 0.03
ADC 3T ♦		0.35 0.02 to 0.61	0.32 -0.02 to 0.60	0.17 -0.19 to 0.48	-0.09 -0.42 to 0.27	0.11 -0.24 to 0.44	0.22 -0.12 to 0.52
T ₂			0.53 0.23 to 0.73	0.16 -0.19 to 0.47	-0.19 -0.50 to 0.16	0.19 -0.16 to 0.50	0.58 0.32 to 0.77
T ₁ [*]				N/A	N/A	N/A	0.33 -0.01 to 0.60
K^{trans} [*]					N/A	N/A	0.11 -0.24 to 0.43
v_e [*]						N/A	-0.14 -0.46 to 0.21

v_p^*			0.23
			-0.12 to 0.52
1.5 T MRI Parameter Correlation			
	ADC	VAS	
	1.5T*		
MTR 1.5T	-0.11	-0.55	
	-0.44 to 0.23	-0.74 to -0.27	
ADC 1.5T		0.00	
*		-0.33 to 0.34	

♦ n = 35, * n = 34, **combined n = 33, for the rest of the data n=36. 95% confidence intervals for the Pearson Correlation coefficient r, are shown in light grey shading. As K^{trans} , v_e and v_p were all derived from the same dataset which included the T₁ data, these parameters were not assessed for cross-correlation.