

**Supplementary Table S3** Relationship between Dietary fiber intake and BASFI

<b>BASFI</b>	Dietary fiber intake			
	Low		High	
<b>Crude Model</b>		$\beta$	95%CI	P-value
FBD symptoms (+)	ref	-1.0	(-1.7, -0.3)	< 0.01
FBD symptoms (-)	ref	-0.5	(-1.0, 0.0)	0.08
Total	ref	-0.7	(-1.1, -0.3)	< 0.01
<b>Model I</b>				
FBD symptoms (+)	ref	-0.5	(-1.2, 0.3)	0.24
FBD symptoms (-)	ref	-0.4	(-1.0, 0.2)	0.16
Total	ref	-0.4	(-0.9, 0.0)	0.07
<b>Model II</b>				
FBD symptoms (+)	ref	-1.0	(-1.7, -0.3)	< 0.01
FBD symptoms (-)	ref	-0.2	(-0.7, 0.4)	0.56
Total	ref	-0.4	(-0.9, 0.1)	0.10

Model I adjusted for: sex; age; lnESR; lnCRP

Model II adjusted for: sex; age; CM -use; TNFi-use; BMI; lnESR; lnCRP

Missing data, n (%): ASDAS-CRP 8 (5.2%), CRP 8 (5.2%), ESR 10 (6.5%), FBD 12 (7.3%). BMI: body mass index; CRP: C-reactive protein; ESR: erythrocyte sedimentation rate; BASFI: Bath Ankylosing Spondylitis Functional Index; FBD: functional bowel disorder; TNFi: tumor necrosis factor inhibitor; CM: Chinese medicine