

Supplementary material

Table 1 Correctness of the answers

	Child score		Parent score	
	%	n	%	N
Item No 1 (the length of large bowel)	65.77	196	80.54	240
Item No 2 (the correct order of digestive tract)	73.49	219	87.58	261
Item No 3 (no risk of IBD transmission)	68.79	205	87.92	262
Item No 4 (the aetiology of IBD)	53.02	158	65.77	196
Item No 5 (relationship between emotional stress and IBD flare-up)	73.83	220	90.6	270
Item No 6 (IBD can affect other organs)	36.24	108	58.39	174
Item No 7 (osteoporosis is related to IBD, steroids, and poor nutrition)	37.25	111	56.38	168
Item No 8 (growth of IBD patients in remission)	35.23	105	43.62	130
Item No 9 (risk of colon cancer)	40.6	121	36.58	109
Item No 10 (the life expectance in patients with IBD)	61.07	182	61.07	182
Item No 11 (reasons to perform a colonoscopy)	42.62	127	50.67	151
Item No 12 (role of salicylates and azathioprine in maintenance therapy)	35.57	106	42.62	127
Item No 13 (the need to use medications during remission)	74.83	223	80.87	241
Item No 14 (side effects of corticosteroids)	29.19	87	28.19	84
Item No 15 (patient's action in response on side effects of corticosteroids)	29.87	89	39.6	118
Item No 16 (herbal remedies can have adverse effects and interact with drugs)	20.81	62	28.19	84
Item No 17 (role of surgery in CD and UC)	13.76	41	11.74	35
Item No 18 (IBD is familial)	53.02	158	66.78	199
Item No 19 (genetic predisposition of IBD)	44.97	134	44.63	133
Item No 20 (no foods proven to cause IBD flare-up)	12.08	36	21.14	63
Item No 21 (nutritional deficiencies)	33.22	99	38.59	115
Item No 22 (role of enteral nutrition)	22.82	68	32.21	96
Item No 23 (proper meaning of the word: "placebo")	23.83	71	34.23	102

Table 2 Hierarchical linear regression for patient's inflammatory bowel disease-knowledge inventory device score as an independent variables

Independent variables	Model 1		Model 2			Model 3		
	B (SE)	Beta P value	B (SE)	Beta P value	B (SE)	Beta P value		
Patient's sex	-1.01 (0.47)	- 0.031 0.13	-0.97 (0.44)	-0.12 0.027	-1.03 (0.44)	-0.13 0.021		
Place of residence	1.06 (0.47)	0.13 0.026	0.47 (0.45)	0.06 0.30	0.41 (0.45)	0.05 0.37		
Patient's age	0.03 (0.01)	0.22 < 0.001	0.03 (0.01)	0.25 < 0.001	0.03 (0.01)	0.24 < 0.001		
Patient's assessment of knowledge	self-low vs-3.35 (0.92)	- 0.000 0.22	-1.83 (1.46)	-0.12 0.21	-1.87 (1.46)	-0.12 0.20		
	good vs0.87 (0.48)	0.11 0.073	-0.55 (0.72)	-0.07 0.44	-0.74 (0.74)	-0.09 0.32		
Parent's assessment of knowledge	self-low vs		-1.27 (1.67)	-0.08 0.45	-1.24 (1.68)	-0.08 0.46		
	good vs		-1.61 (0.73)	-0.20 0.027	-1.66 (0.74)	-0.21 0.026		
J-elita membership			0.67 (0.54)	0.07 0.22	0.69 (0.55)	0.07 0.21		
Internet as a source of knowledge			0.66 (0.47)	0.08 0.16	0.67 (0.47)	0.08 0.16		
Parent's IBD-KID score			0.35 (0.06)	0.34 < 0.001	0.33 (0.06)	0.32 < 0.001		
Immunosuppressive agent					-0.12 (0.51)	-0.01 0.82		
Biological agent					0.26 (0.52)	0.03 0.61		
Nutritional therapy					0.38 (0.48)	0.05 0.43		
Surgical therapy					1.26 (0.76)	0.10 0.098		
Raw/Corrected R ²	0.159/0.141		0.298/0.268			0.311/0.269		
F for change in R ²	9.204		9.452			1.108		

p-value for R ² change	< 0.001	< 0.001	0.35
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P-value for the significance of the independent variable in the multivariate model. B: Unstandardised regression coefficient; SE: Standard error; Beta: Standardised regression coefficient. Dependent variable: patient's IBD-KID score, model assessment: model 1 - df = 5, $F = 9.204$, $P < 0.001$, model 2 - df = 10, $F = 10.125$, $P < 0.001$, model 3 - df = 14, $F = 7.562$, $P < 0.001$.

Table 3 Hierarchical linear regression for the parent's inflammatory bowel disease-knowledge inventory device score as independent variables

Independent variables	Model 1		Model 2		Model 3	
	B (SE)	Beta ^a P value	B (SE)	Beta ^a P value	B (SE)	Beta ^a P value
Place of residence	1.16 (0.45)	0.160.011	0.89 (0.45)	0.12 0.051	0.77 (0.44)	0.11 0.085
Patient's age	-0.02 (0.01)	- 0.18 0.003	-0.02 (0.01)	-0.15 0.016	-0.02 (0.01)	- 0.18 0.003
Patient's self-assessment of knowledge	Low vs medium	-1.93 (0.96)	-0.38 (1.6)	-0.03 0.81	0.36 (1.56)	0.02 0.89
	Good vs medium	0.47 (0.46)	-0.33 (0.72)	-0.05 0.65	-1.06 (0.72)	- 0.15 0.14
Parent's self-assessment of knowledge	Low vs medium	<i>vs</i>	-2.19 (1.79)	-0.14 0.22	-2.65 (1.73)	- 0.17 0.13
	Good vs medium	<i>vs</i>	-0.72 (0.72)	-0.10 0.32	-1.1 (0.71)	- 0.15 0.12
J-elita membership			0.29 (0.57)	0.03 0.61	-0.02 (0.56)	0.00 0.97
Parent's sex			-0.69 (0.56)	-0.07 0.22	-0.54 (0.54)	- 0.06 0.32
Source books			0.87 (0.57)	0.10 0.13	0.66 (0.55)	0.08 0.23
Source journals			0.42 (0.57)	0.05 0.46	0.38 (0.55)	0.05 0.49
Parent's level of education	Lower than sec. vs sec.		-1.8 (0.65)	-0.19 0.006	-1.99 (0.63)	- 0.21 0.002
	Higher than sec. vs sec.		-1.04 (0.49)	-0.14 0.036	-1.14 (0.48)	- 0.16 0.019
Immunosuppressive agent					1.85 (0.48)	0.24 0.001
Biological agent					0.33 (0.52)	0.04 0.53
Nutritional therapy					0.58 (0.47)	0.08 0.23
Surgical therapy					1.17 (0.73)	0.10 0.11
Raw/Corrected R ²	0.090/0.075		0.164/0.120		0.238/0.185	
F for change in R ²	5.907		2.553		5.550	
p-value for R ² change	< 0.001		0.011		<0.001	

B: Unstandardised regression coefficient; SE: Standard error; Beta: Standardised regression coefficient. *P*-value for the significance of the independent variable in the multivariate model. Dependent variable: parent's IBD-KID score. Model assessment: model 1 - *df* = 4, *F* = 5.907, *P* < 0.001, model 2 - *df* = 12, *F* = 3.773, *P* < 0.001, model 3 - *df* = 16, *F* = 4.440, *P* < 0.001.

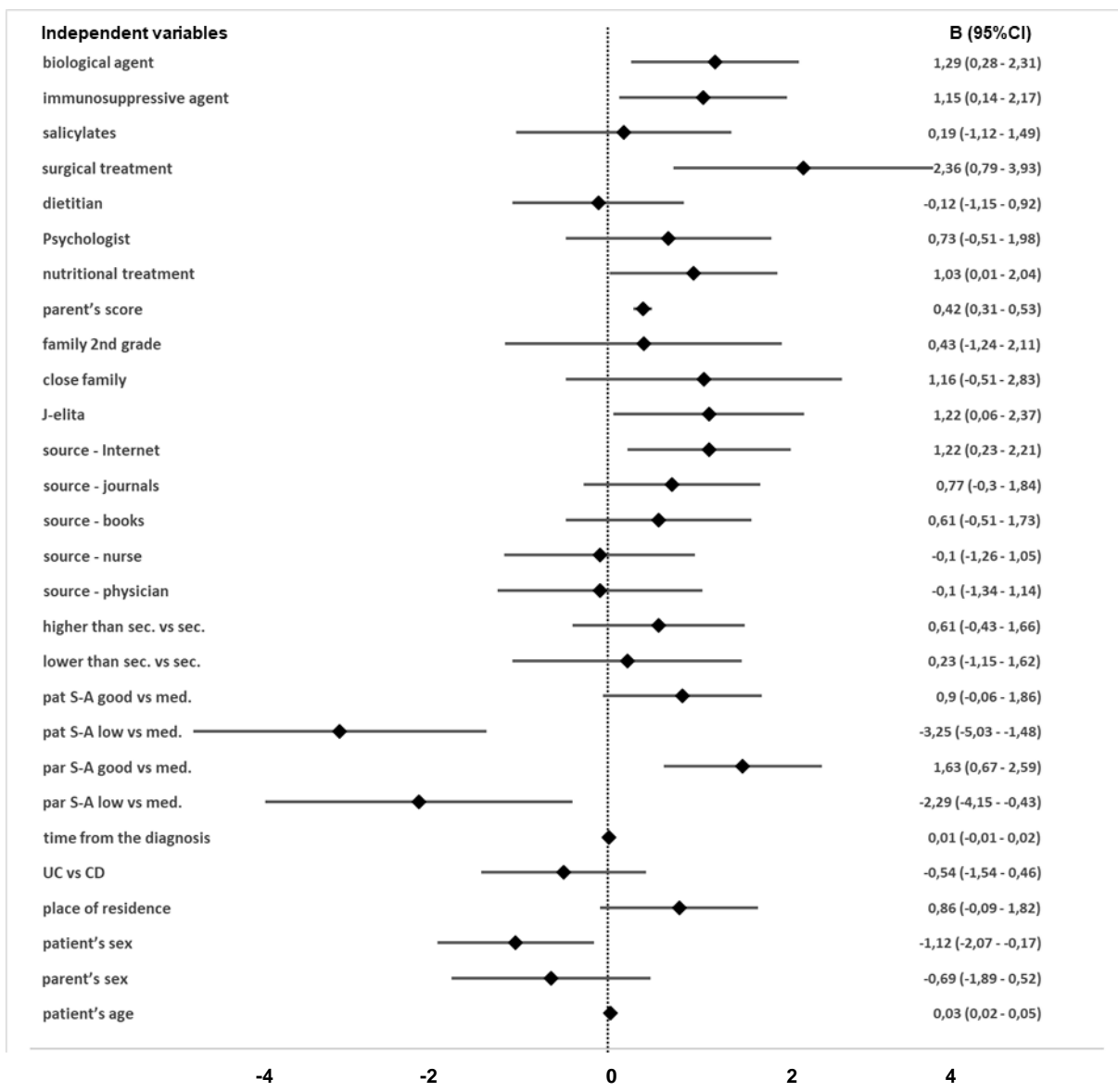


Figure 1 Forest plot-type graph for univariate regression models of patient's inflammatory bowel disease-knowledge inventory device score. B: Unstandardised regression coefficient; 95%CI: 95% confidentiality intervals; sec.: Secondary education; pat: Patient's; par -: Parent's; med: Self-assessment of knowledge on the medium level; UC : Ulcerative colitis; CD: Crohn disease.

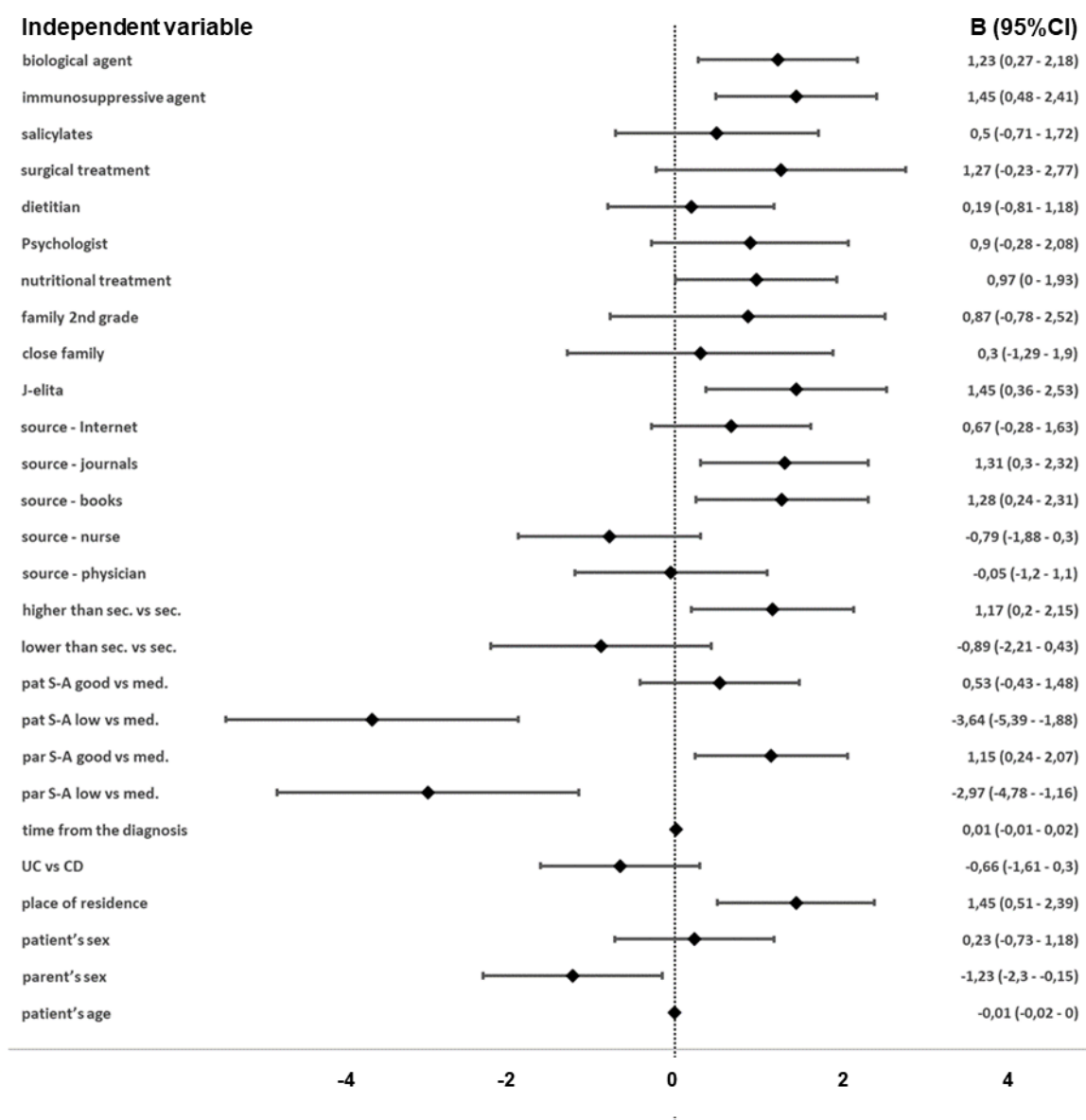


Figure 2 Forest plot-type graph for univariate regression models of parent's inflammatory bowel disease-knowledge inventory device score. B: Unstandardised regression coefficient; 95%CI: 95% confidentiality intervals, sec.: Secondary education; pat: Patient's; par: Parent's; med.: Self-assessment of knowledge on the medium level; UC: Ulcerative colitis; CD: Crohn disease.