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ABSTRACT SUBMISSION FORM

CHR D 2022: Abstract & Poster Submission Form

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Presenter Status

- Undergraduate Students
- Masters Student
- PhD Student
- Post-Doctoral Fellows
- Residents
- Non-Trainee

Research Category

- Basic Science
- Clinical
- Community Health / Policy

Role in the project

- Design
- Perform Experiments
- Analyze Data
- Write Abstract
- Data management, data extraction

Title

Validation of the EuroQol (EQ-5D-Y) Health-Related Quality of Life Questionnaire (QoL) in Pediatric Inflammatory Bowel Disease (IBD)

Background

IBD are non-curable chronic immune-mediated disorders characterized by recurring remissions and relapses, with children and young adults' QoL being severely affected. Therefore, assessing QoL has been an integral part of standard clinical care. The validated IMPACT-III QoL for pediatric IBD is a long set of questionnaires. The shorter EQ-5D-Y, however, has not been validated in children with IBD. Considering that EQ-5D-Y consisted of 5-item compared to the 35-item IMPACT-III questionnaire, validation of the EQ-5D-Y will have great utility in clinical settings.

Objective

We hypothesized that the EQ-5D-Y will demonstrate good psychometric properties (i.e., reliability, responsiveness, validity) in pediatric IBD.

Methods

Data were prospectively collected from two longitudinal cohorts: the local Manitoba pediatric IBD cohort (MALPID) and the national pediatric IBD network (CIDsCaNN). Patients with stoma following colectomy were excluded. Age, sex, clinical disease activity (remission or relapse), EQ-5D-Y, and IMPACT-III scores were collected every visit. Data were analyzed using Spearman correlation, Wilcoxon Signed Rank test, and calculating Cronbach's alpha (α).

Results

Over 1300 encounters were collected from 148 patients (Mean age at diagnosis = 11.12, SD = 4.56, with 75 Male, 63 Female, and 10 missing data. Results are summarized in the following tables

Conclusion

Conclusion: Our findings suggest that the EQ-5D-Y is a reliable and accurate tool to measure QoL in children with IBD.

Do you have a table/figure to upload?

Yes No

Results_tables.pdf

Authors

- For each author, please click "[+] Add Item" and provide the author's information

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Criterion Validity

Spearman Correlation		EQ-5D-Y
IMPACT-III	Spearman-rho	.05
	P-value	.79
	n	27

Responsiveness

Wilcoxon Signed Rank Test		EQ-5D-Y
Remission (Active – Inactive Disease)	Z-score	-4.119
	P-value	<.001¹
	n	76
	Median Diff	8.63
Relapse (Inactive – Active Disease)	Z-score	-2.197
	P-value	.028²
	n	50
	Median Diff	-6.58

Reliability

Reliability Analysis	EQ-5D-Y
Cronbach's Alpha	.701 ³

¹ p-value < 0.05 indicates statistical significance. Patients with inactive disease rated higher QoL than active disease

² p-value < 0.05 indicates statistical significance. Patients with active disease rated lower QoL than inactive disease

³ Cronbach's Alpha > 0.7 indicated medium level of internal consistency

n	572
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