



Identifying participation characteristics to adapt client tailored intervention among children and adolescents with celiac disease

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Celiac disease - Children's activities report







 A chronic health condition precipitated by exposure to gluten

The only available treatment is managing a lifelong restrictive and challenging gluten-free diet





CD research

Increased worldwide research focused on life

of children and adolescents with CD:

- Medical research causes and finding a cure
- Quality of life
- Level of adherence
- Emotional aspects

(e.g., Biagetti et al., 2013; Howard & Law, 2014; Skjerning, et al., 2014)



Paucity in knowledge of CD

Profound understanding of participation

characteristics in food-related activities in everyday life among children and adolescents

Knowledge about interventions to assist this

population



Review

Activities, Participation and Quality of Life Concepts in Children and Adolescents with Celiac Disease: A Scoping Review

Sonya Meyer * 😳 and Sara Rosenblum



MDPI

Aim

To develop and validate

To examine associations with

 The Celiac Disease-Children's Activities Report (CD-Chart)

• (Meyer & Rosenblum, 2017)

•A standardized measure to map out participation characteristics

Quality of life (QoL) PedsQL (Varni et al., 2001)

Executive functions

Behavior Rating Inventory of Executive Function (BRIEF) (Gioia et al., 2000)

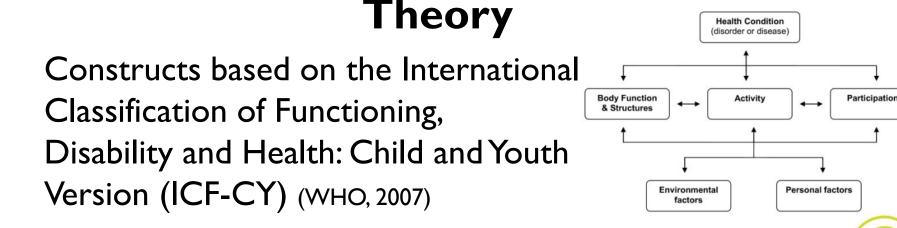


Method

Focus group interviews

- I) Children (8-12 years) (*n*=12)
- 2) Adolescents (13-16 years) (*n*=10)
- 3) Children's parents (*n*=13)
- 4) Adolescents parents (*n*=10)







CDCHART

9 food-related activities

- I. Meals at home
- 2. Family meals & events
- 3. Family vacations
- 4. Eating out with friends
- 5. Eating out at a friend
- 6. Eating meals on overnight trips
- 7. Eating treats from the teacher
- 8. School food activities
- 9. School overnight trips

6 core dimensions

- Activity
- Frequency
- Preference
- Preparation
- Involvement
- Self-determination

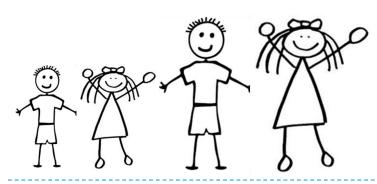


Participants

Group with CD (n=126)

Children (8-11 ys) Adolescents (12-18 ys) with CD > 6 months





Control group (n=30)

Healthy controls matched by:

- ▶ age
- ▶ sex
- living and educational environment









Article

Development and Validation of the Celiac Disease-Children's Activities Report (CD-Chart) for Promoting Self-Management among Children and Adolescents

Sonya Meyer * 🙆 and Sara Rosenblum



Sonya Meyer, WFOT 2018

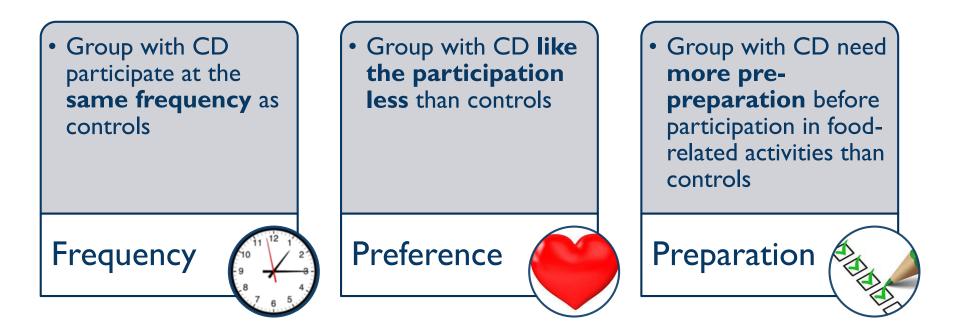
Exploratory factor analysis

Items	Factor 1:	Factor 2:
	Social environment	Close family environment
5. Eating out at a friend	.756	
7. Eating treats from the teacher	.705	
4. Eating out with friends	.658	
8. Special food activities at school	.587	
2. Family meals/events	.448	
3. Family vacations		.747
1. Meals at home		.703

• A 3rd component "**trip environment**" Overnight social & school trips were excluded from factor analysis due to statistical limitations, but showed good theoretical relationship, r = .49, p < .001.

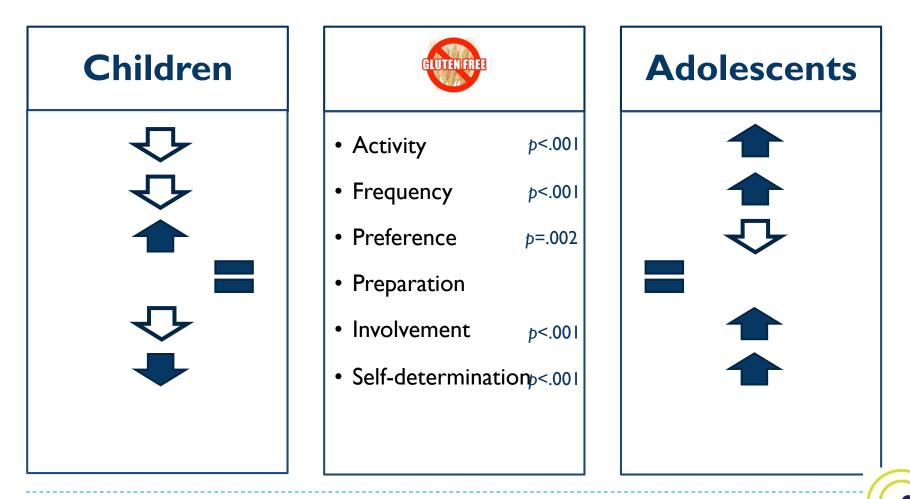


CD group vs control group CD CHART





Children vs Adolescents CDCHART



CD-Chart Correlations

PedsQL

(Varni et al., 2001)

Children

Adolescents

None

Physical QoL & social preference Emotional QoL & trip preference Social QoL & trip preference

BRIEF

(Gioia et al., 2000)

None

Shifting & social preference

Shifting & trip preference

Initiation & trip selfdetermination Children

EXAMPLE

Adolescents





Conclusions

- The CD-Chart is a reliable and valid tool that
 - contributes to characterizing the participation in food-related activities while managing the gluten-free diet
- Using self-reports and other tools can be valuable in understanding the individual needs of children and adolescents with CD





- Client-tailored intervention can:
 - Promote effective self-management
 - Promote adherence to the gluten-free diet
 - Promote quality of life with CD



Thank You



Remarks, Questions, Ideas sonyameyer.ot@gmail.com

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