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Dietary Habits Amongst a Group of Palestinian ASD Children



Introduction:



- ▶ <u>Autism</u> is a complex neurobehavioral condition that includes impairments in social interaction and developmental language and communication skills combined with rigid, repetitive behaviors. Because of the range of symptoms, this condition is now called <u>autism</u> <u>spectrum disorder</u> (ASD).
- ► It covers a large spectrum of symptoms, skills, and levels of impairment. ASD ranges in severity from a handicap that somewhat limits an otherwise normal life to a devastating disability that may require institutional care.

Study problem:

Problems and eating habits amongst children with autism were reported these include:

Eat only certain foods, Eating and drinking in specific places, inflexibility, over eating, hypo/hyper sensitivity

Prevalence of autism:

- in UK 1 in 100 autistic children (2010)
- in US 20-1000 autistic children (2011 -2012)
- ► No records in Palestine
- ► Autism usually appear by age 18-36 months.
- Often, it can be diagnosed as early as 18 months



Objective:

To study the nutritional habits of children with autism and their impact on body weight

Materials and methods:

- ► A validated questionnaire (Arabic version) was used to assess the nutritional habits amongst ASD children.
- ▶ It was distributed over a group of parents in Tulkarem through the Learning and Autism Center.
- ► This questionnaire was taken from a study that has studied ASD Children in Palestine 48, translated from English.
- ► This questionnaire concerns problems related to eating habits and feeding problems in children with autism.
- ► Age of target group (6-12 years).

- ► The questionnaire contains two parts:
- A. Section I: Personal information and information about illness

- B. Section II: 7 dietary habits:
- 1. chewing and swallowing
- 2. eating avoidance
- 3. food selectivity
- 4. eating sameness and inflexibility
- 5. eating rituals
- 6. overeating
- 7. behaviors during mealtime



A sample of the questionnaire

	المشكلة او العادة	5 عالي جدا	4 عائي	3 متوسط	2 قلیل	1 قلیل جدا	لا يحدث
12	يأكل \ يشرب اشياء معينة فقط اثناء وجبة الطعام						
13	يأكل نوع طعام واحد فقط اثناء وجبة الطعام						
14	يفضل الأطعمة نفسها في كل وجبة						
15	يرفض تذوق الاطعمة الجديدة						
16	يأكل طعام غيرعن الأطعمة المعدة لأفراد الأسرة						
17	يأكل مواد معينة (لينة أو صلبة)						
18	ياكل من انواع محددة من الاطعمه						
19	يفضل فقط الاطعمه الحلوة أو المالحه او الحامضة						
20	يتجنب الاطعمة \ات الروائح القوية						
21	يأكل الاطعمة فقط عندما تكون في درجات حرارة معينة					0	
	Eating selectivity tota score =	al = Total					

Results and discussion:

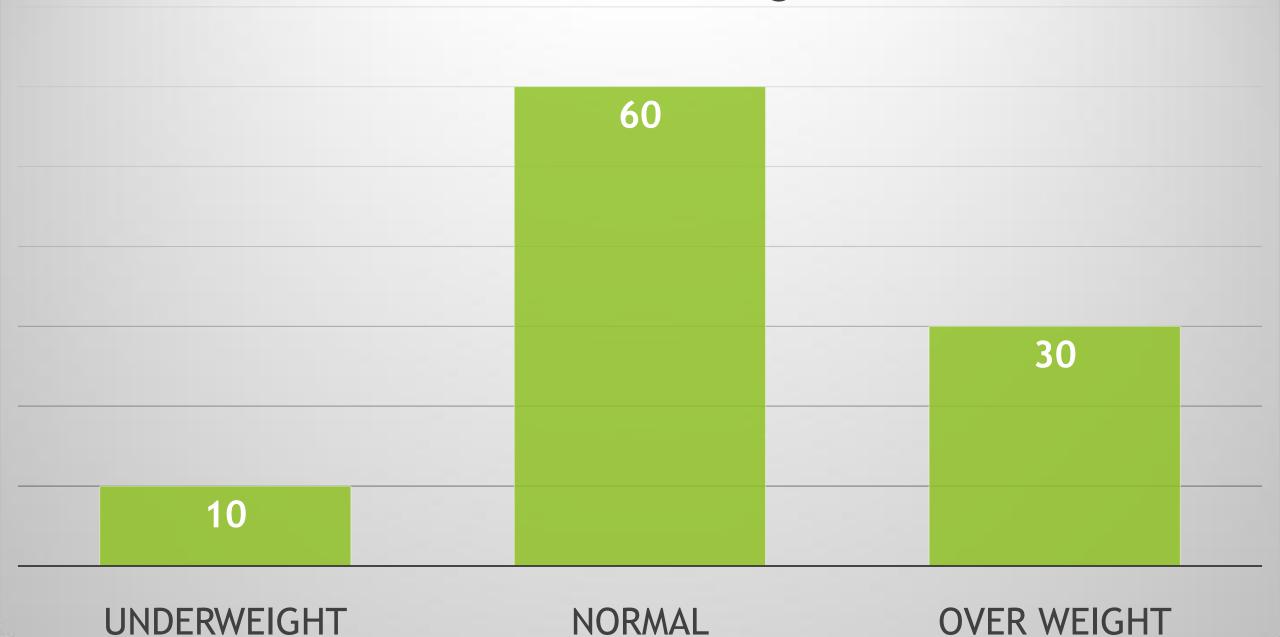
- ▶ 10 families have responded.
- ► Distribution of participants:

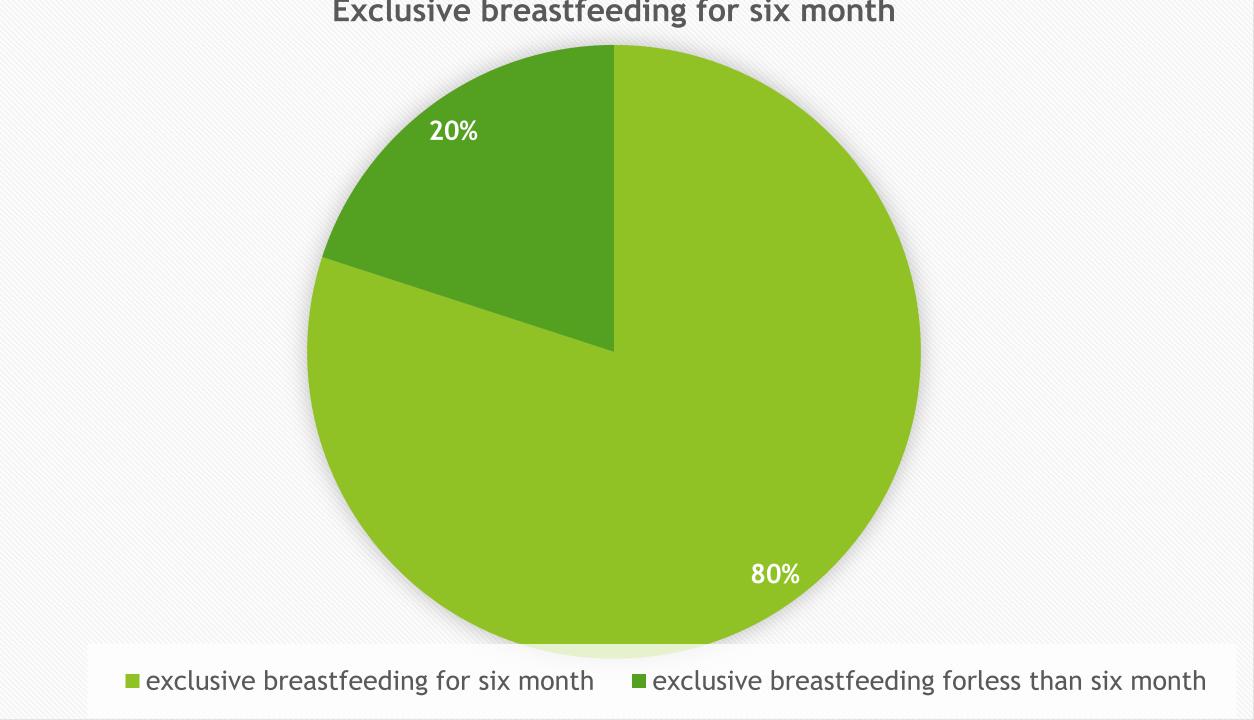
Female 30% (3)

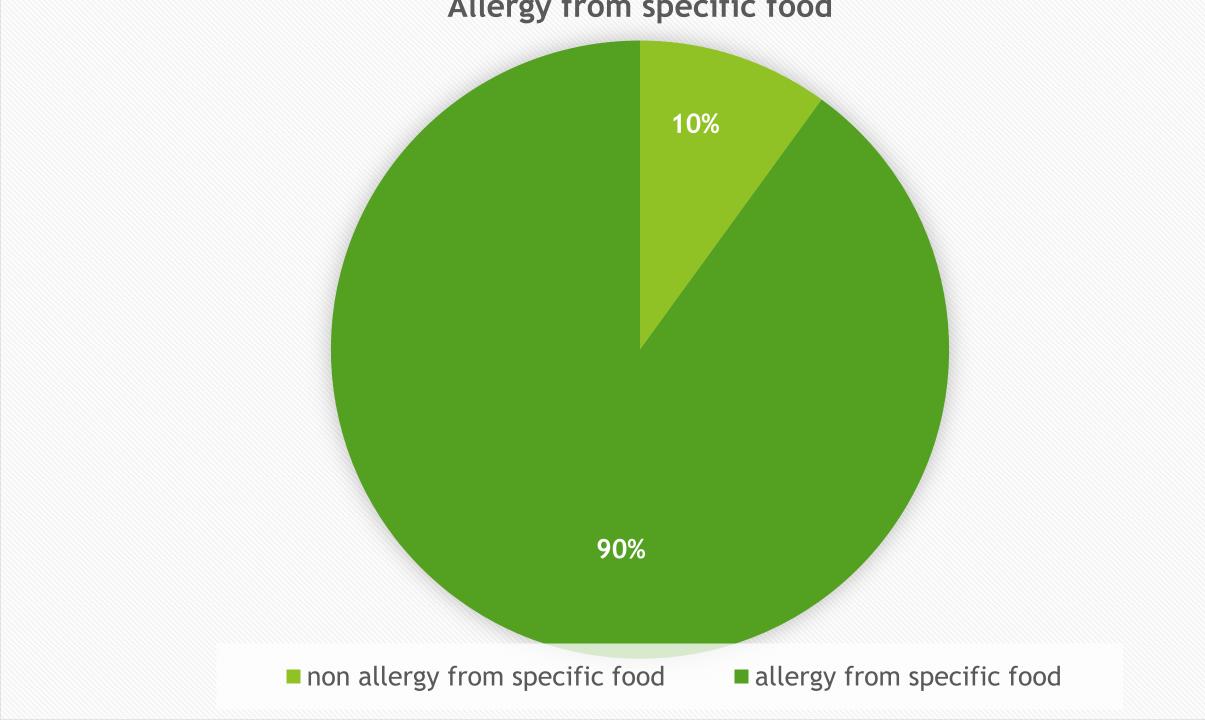
Male 70% (7)

Average age was 9 years and 4 months.

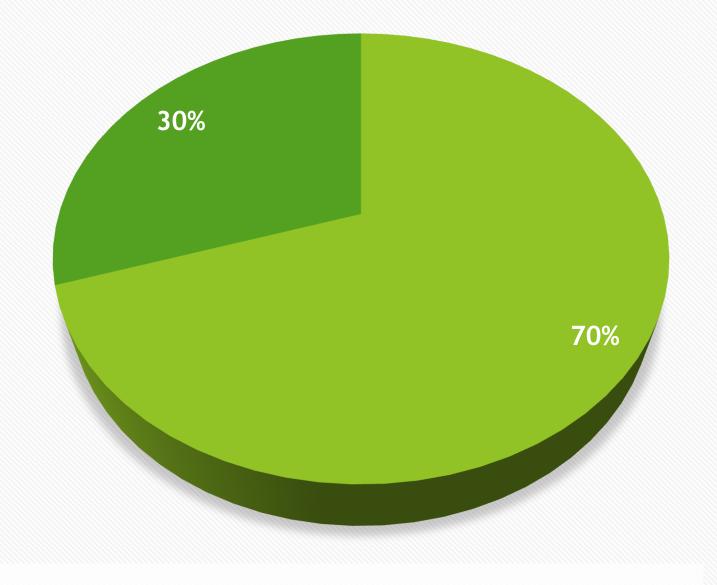
Percent BMI to Age







Percent of independent eating



independent eating

dependent eating



Conclusion:

- The study confirmed the existence of a variety of problems in the dietary habits of children of autism and one of the most obvious problems: selective food
- ► Abnormal BMI (40%) amongst ASD children could be associated with their nutritional habits.

Recommendations:

A broader study should be conducted to confirm the results because these results are preliminary

Study to understand dietary habits in children with autism by developing appropriate nutrition programs for children with autism

Limitation:

- ► The sample was small and had 10 children
- ► Some families reported missing information



