



Research Article

Dietary Patterns Correlate with Transition Readiness of Adolescents with Autism: A Pilot Study

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***Corresponding author:** Blessing Seidu, Department of Nutrition and Food Studies, George Mason University, Fairfax, VA 22030, USA**Citation:** Seidu B, De Jonge L (2024) Dietary Patterns Correlate with Transition Readiness of Adolescents with Autism: A Pilot Study. . Ann Case Report. 9: 2006. DOI:10.29011/2574-7754.102006**Received:** 04 October 2024, **Accepted:** 09 October 2024, **Published:** 10 October 2024**Abstract**

Despite extensive research on autism in children, much less attention has been given to the transition into adulthood. This study aims to address this gap by examining the dietary behaviours of young adults with autism during this critical transition period, highlighting the role of diet in enhancing their readiness for adulthood. Forty-seven participants (mean age 21.0 ± 1.1 years), both male and female, were involved in this study. Participants had various comorbidities, such as mood disorders, attention-deficit/hyperactivity disorder, depression, and anxiety disorders, for which they required medication. Dietary behaviour was assessed using the Starting the Conversation: Diet Survey, while transition readiness was measured with the Transition Readiness Survey. T-test and regression analysis were utilized to evaluate the data. The results indicated that participants did not follow healthy eating habits, as reflected by the dietary scores (1.08 ± 0.07), and were not adequately prepared for adulthood, as shown by the transition readiness scores (3.19 ± 1.10). A statistically significant and negative correlation was found between dietary patterns and transition readiness ($r = -0.51$, $p < 0.001$), indicating an adverse relationship: transition readiness ratings decline as diet scores rise. Linear regression analysis revealed that dietary habits accounted for 26.20% of the variation in transition readiness, with the confidence interval for the coefficient of dietary habits being -2.89 to -0.95 ($p = 0.002$). The negative significant correlation between dietary scores and transition readiness scores indicates an association between diet behaviour and participants' assessed readiness for transition.

Keywords: Autism; Comorbidities; Nutrition; Adolescents; Transition.**Introduction**

Autism Spectrum Disorder (ASD) is increasingly recognized as a significant public health issue, impacting over 1% of the global population [1]. It is characterized by neurodevelopmental disorders such as difficulties in social communication and repetitive behaviours [2]. According to the Center for Disease Control and Prevention, approximately 1 in 59 young adults are affected by ASD [3].

Individuals with ASD face numerous challenges, one of the most pressing being adherence to essential dietary guidelines [4]. Nearly

70% of people with autism struggle to meet these guidelines, especially during adolescence, resulting in dietary issues such as food selectivity and aversion [4]. These issues manifest as a preference foods and an aversion to others, commonly labelled as "picky eating," particularly prominent during the teenage years [5]. This selective eating pattern often leads to inadequate intake of essential nutrients, with a noticeable preference for starches and snack foods over fruits, vegetables, and proteins [6]. Despite the recommendation from the Dietary Guidelines for Americans that fruits and vegetables should constitute half of our plate for a balanced diet [7], many individuals with ASD tend to avoid these foods [8]. Fruits and vegetables offer a wide variety of vitamins (vitamin A, thiamin, vitamin B12, vitamin C,

and vitamin D) which are beneficial in reducing autism symptoms [9]. Additionally, they provide dietary fiber that supports shaping the gut microbiota composition, leading to improved cognitive function [10,11]. Fruits and vegetables are also a valuable source of minerals, phytochemicals, and antioxidants, all of which have been linked to promoting better neurological outcomes for people with autism [12].

Beyond dietary concerns, individuals with ASD often experience concurrent comorbidities, with over 70% grappling with conditions such as attention-deficit hyperactivity disorder, anxiety, and depression [13,14]. Managing these comorbidities typically involves a combination of pharmacotherapy and nutritional interventions [14]. Although adolescence typically marks a period of increasing independence and behavioural autonomy, individuals with autism often encounter a plateau and subsequent decline in functional independence, particularly in managing regular medication regimens for co-occurring conditions [15]. Recognizing this issue, the American Academy of Pediatrics in 2011 emphasized the importance of assessing adolescents' ability to manage their health conditions and access healthcare [16]. This highlights the value of exploring how well adolescents with ASD can independently manage their health and nutrition to mitigate their symptoms. Using established assessments to evaluate transition skills can help families assess their teens' capabilities, set realistic goals, and implement effective interventions for a smoother transition into adulthood. While pharmacological treatments play a vital role in managing ASD symptoms and related conditions, it is essential to note that these treatments are not aimed at reversing ASD's inherent disabilities [8,9].

By the age of 18, most young people have developed the skills needed for a successful transition into adulthood [17]. However, each year, over 50,000 adolescents with ASD in the U.S. make the transition into adulthood [2]. While considerable research has been dedicated to understanding autism in children, the same cannot be said for the subsequent journey into adulthood after departing from child-oriented care systems [17]. Recent findings confirm that fewer than 20% of adolescents with autism experience positive outcomes when assuming adult responsibilities [18]. During this transitional period, it is imperative to assess their capability to manage their healthcare and nutrition independently. This transitional phase represents a critical opportunity to evaluate and improve the outcomes for these adolescents. A vital aspect of this assessment involves determining their readiness and confidence in handling healthcare-related tasks, such as scheduling medical appointments, managing medications, and effectively communicating with healthcare providers. Equally important is the analysis of their dietary habits, including fruits and vegetables versus empty-calorie foods. Such evaluations provide valuable insights into their diet status and self-efficacy in managing their

dietary needs autonomously. This information is essential for devising customized plans and interventions that effectively support their health management during this significant life stage [19].

This study aims to conduct a preliminary cross-sectional analysis of dietary habits and transition readiness among adolescents with autism. To our knowledge, this is the first retrospective cross-sectional study to examine the correlation between dietary habits and transition readiness in this population. We will collect relevant data using the Starting the Conversation on Diet Questionnaire [21] and the Transition Readiness Assessment Questionnaire [5] to understand better how dietary choices affect transition readiness. The alternative hypothesis suggests a correlation between dietary quality and transition readiness in adolescents with autism aged 19 to 22, while the null hypothesis posits no correlation between the variables.

Materials and Methods

Study Design and Participants

The study targeted individuals aged 19-22 diagnosed with autism who also required regular medication for concurrent conditions, including mood disorders, attention-deficit/hyperactivity disorder (ADHD), depression, anxiety, irritability, and disruptive behaviours. This retrospective cross-sectional pilot study was conducted across multiple research sites.

To capture a diverse population, collaboration took place with three autism initiative programs in Virginia: The Mason Autism Support Initiative (MASI) and Mason Life, both at George Mason University in Fairfax, VA, as well as the Autism Society Tidewater in Virginia Beach. These institutions, with verified autism diagnoses among their student populations, ensured the inclusion of individuals with confirmed autism diagnoses. Interested participants answered an eligibility-screening question to ensure they met the study criteria, which included being aged between 19 and 22, having a diagnosis of autism, and currently taking at least one medication for a co-occurring condition. Those who answered "YES" to the eligibility question were routed to the informed consent form. Participants who could autonomously comprehend the study's purpose, procedures, and potential risks and benefits, and subsequently provide their consent, were included in the study. Participants requiring parental consent were excluded to expedite data collection and streamline the inclusion process.

The data collection process was meticulous and comprehensive. Two questionnaires, the Transition Readiness Assessment Questionnaire (TRAQ) and Starting the Conversation: Diet (STC), were completed by a nonprobability sample of eligible students enrolled in the autism initiative programs. Prior to disseminating the research study flyers to students, program managers reviewed

survey tools to ensure both content and comprehension levels aligned with the research subjects. Data collection, which took place between October 2023 and February 2024, was facilitated by program managers who distributed the study flyer containing a QR code and a hyperlink to the survey via newsletters. To foster inclusivity, the Assistive Technology Initiative at George Mason University ensured that the flyer and research instruments were accessible to screen readers. Digital informed consent was obtained from all participants, and data were securely stored using the Redcap platform. This research project underwent a rigorous review and received approval from the Institutional Review Board. Accessibility challenges limited the recruitment process, resulting in a total of forty-seven participants (n = 47) being included in the study. Participants received a \$10 gift card as an incentive for their contribution.

Instruments

Demographic data, including age and gender, was collected as part of the survey questions.

Starting the Conversation: Diet Scale: The Starting the Conversation (STC) on diet assessment, developed by the Center for Health Promotion and Disease Prevention at the University of North Carolina at Chapel Hill, is a simplified food frequency questionnaire for evaluating dietary patterns [6]. Derived from a validated 54-item instrument, it focuses on assessing and advising individuals on their dietary quality [6]. The STC questionnaire consists of eight items, with response options categorized into three columns: the left column represents the healthiest practices (scored 0), the Center column represents less healthy practices (scored 1), and the right column represents the least healthy practices (scored 2). A summary score ranging from 0 to 16 is obtained by totalling the item scores. Lower summary scores indicate a healthier diet, while higher scores indicate greater room for improvement [6]. The eight items in the STC survey assess food choices by examining the variety of foods consumed, including fruits and vegetables, fast food, and soda, and the frequency of consumption over the past few months.

In a recent investigation validating the utilization of the STC instrument, 463 diabetes patients were involved in a study focused on self-management intervention [22]. The study's outcome revealed that the eight items comprising the STC instrument, and the overall summary score displayed good performance, establishing its reliability and effectiveness as a nutritional assessment tool [21,22]. This discovery suggests that the questionnaire will effectively measure eating patterns among adolescents with autism in this research study.

Transition Readiness Scale (TRAQ): The self-management and transition assessment measures the level of preparedness for transition. Recent studies evaluating the preparedness of young

individuals with autism [22] and special healthcare needs utilized the Transition Readiness Assessment Questionnaire, which exhibited satisfactory content validity, construct validity, and internal consistency [23,24]. Consequently, it was deemed the most reliable and well-validated tool for assessing adolescent transition readiness [24]. The TRAQ consists of 20 validated items divided into five subscales, assessing health-related knowledge and self-management skills [5]. Each subscale focuses on a specific area and contains between two and seven questions. The subscales cover medication management, appointment keeping, tracking health issues, talking with healthcare providers, and managing daily activities [5].

Responses to the items in the TRAQ are scored on a Likert-type scale ranging from 1 to 5. The scale includes the following options: 1 = "No, I do not know how," 2 = "No, but I want to learn," 3 = "No, but I am learning to do this," 4 = "Yes, I have started doing this," and 5 = "Yes, I always do this when I need to" [5].

The overall TRAQ score is determined by calculating the average of the scores from the 20 items, resulting in a score between 1 and 5. Additionally, scores for each domain associated with the five subscales can be calculated by averaging the scores of the questions within each subscale. These domain scores also range from 1 to 5 [5]. Higher scores on the overall TRAQ and the subscales indicate a greater readiness for transition. While a TRAQ score of below 4.0 indicates that the participant is not yet ready to transition from adolescence to adulthood [25].

Statistical Analysis

Mean and standard deviation were utilized to describe continuous variables, while percentages were used to describe categorical variables. To test the null hypothesis, t-tests were initially conducted with the hypothesized mean difference set to 0 and an alpha level of 0.05. Subsequently, linear regression analysis was performed to further investigate the relationship, assessing its strength and nature. The regression results are presented through Multiple R (the correlation coefficient between variables), R^2 (the proportion of variance in the dependent variable explained by the model), standard error (the variability of the dependent variable), and coefficients (used to formulate the regression equation for prediction). To assess the model's suitability, the R^2 value in the regression was analysed as a measure of goodness-of-fit. All statistical analyses were conducted using SPSS Statistics (version 27.0; IBM Corp., Armonk, NY, USA), and data visualization was performed using Microsoft Excel 2013.

Results

Description of Sample

Forty-seven subjects (n= 47) were included in this study, with ages ranging from 19 to 22 years and a mean age of 21.0 ± 1.1

years. The majority of the sample (66%) identified as male, while (34%) identified as female. All respondents (100%) had a primary diagnosis of autism, necessitating regular medication for comorbid conditions, including mood disorders, attention-deficit/hyperactivity disorder, depression, anxiety disorders, and irritability. Refer to Table 1 (Appendix) for a comprehensive overview of the key demographic characteristics.

T-test Analysis

Participants exhibited significantly lower scores in the TRAQ survey (3.19 ± 1.10) and higher scores in the STC survey (1.08 ± 0.07). A statistically significant negative correlation ($r = -0.51$, $p < 0.001$) was observed between diet and the transition readiness of adolescents, as outlined in Table 2 (Appendix).

Simple Linear Regression Analysis

A strong association exists ($r = 0.51$, $P < 0.0002$) between dietary habits and transition readiness, with dietary habits accounting for 26.20% of the variation in transition readiness. The predicted

values deviate from the actual values by approximately 0.91 units on average. The confidence interval for the coefficient of dietary habits (95% CI: -2.89 to -0.95) shows a statistically significant negative relationship. The results of the linear regression are illustrated in Table 3 (Appendix).

The line fit plot shows the relationship between the STC Mean Score and the TRAQ Mean Score. The linear regression equation is ($y = -1.919x + 5.2646$). The plot in Figure 1 (Appendix) confirms an adverse relationship between the two variables. The intercept (5.26) shows the TRAQ Mean Score when the STC Mean Score is zero. The R-squared value is 1, demonstrating a perfect fit of the model to the data.

The mean and standard deviation (SD) scores revealed no significant variation in transition preparedness between males and females, as shown in Table 4 (Appendix). Females had a mean score of 3.13 ± 0.33 , while males recorded a mean score of 3.23 ± 0.28 . Table 4 further explores dietary quality and transition preparedness across different genders and age groups, highlighting the consistency in scores among the groups.

Variable	N	Percentage %	Mean \pm SD Age
Female	16	34	20.56 ± 0.96
Female (19-20)	8	50	19.75 ± 0.46
Female (21-22)	8	50	21.37 ± 0.51
Male	31	66	21.19 ± 1.04
Male (19-20)	8	26	19.62 ± 0.51
Male (21-22)	23	74	21.73 ± 0.44

Variables are presented by gender and age group, with (N) representing the number of participants, (%) indicating the percentage, and (Mean) accompanied by standard deviation.

Table 1: Descriptive statistics of sample (n= 47).

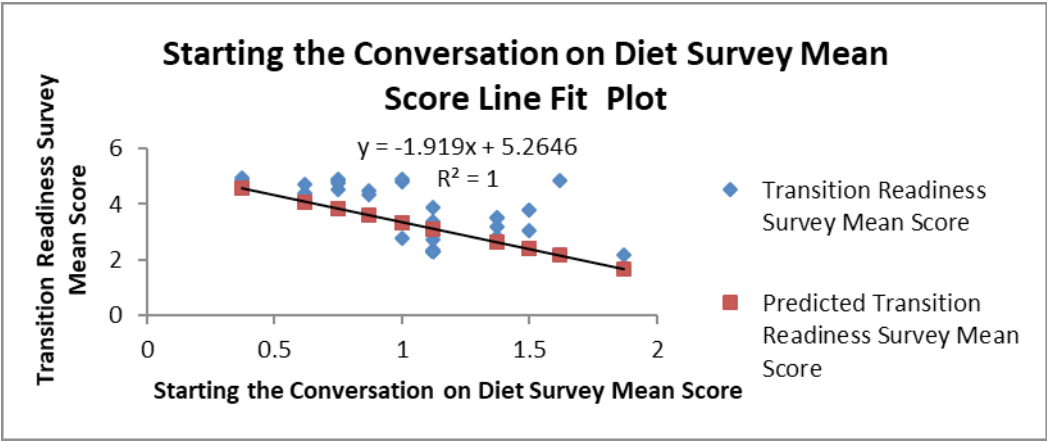
	Starting the Conversation on Diet Survey Mean Score	Transition Readiness Survey Mean Score
Mean \pm SD	1.08 ± 0.10	3.19 ± 1.10
Variance	0.08	1.11
Pearson Correlation	-0.51	
Hypothesized Mean Difference	0	
P(T<=t) two-tail	0.0001	

T-test analysis on Transition readiness and diet survey.

Table 2: T-test: Paired Two Sample for Mean.

Multiple R	R Square	Standard Error	Significance	Lower 95% CI	Upper 95% CI
0.51	0.26	0.91	0.0002	-2.89	-0.95

Table 3: Regression Analysis Statistics.



The blue diamond’s represent the observed data points for the Transition Readiness Survey Mean Score, while the orange squares represent the predicted scores based on a linear fit.

Figure 1: Line of Best fit predicting TRAQ scores based on STC results.

Variable	Diet Mean Score	Transition Readiness Mean Score
Total Female	1.09 ± 0.22	3.13 ± 0.33
Female (19-20)	1.06 ± 0.32	3.17 ± 0.07
Female (21-22)	1.10 ± 0.26	3.09 ± 0.31
Total Male	1.08 ± 0.23	3.23 ± 0.28
Male (19-20)	1.18 ± 0.33	3.09 ± 0.36
Male (21-22)	1.04 ± 0.23	3.27 ± 0.27
STC and TRAQ scores are presented as mean ± standard deviation		

Table 4: Comparison of STC and TRAQ Mean Scores by Gender and Age Group.

Discussion

To the best of current knowledge, this study is the first to explore the relationship between dietary quality and transition readiness in adolescents with autism. The findings confirm the alternative hypothesis, showing a significant correlation between dietary quality and the readiness of young adults with autism to transition into adulthood. Consequently, the null hypothesis is rejected, as the p-value (0.001) from the t-test is well below the standard α (0.05). The analysis indicates that participants with suboptimal dietary habits, reflected by higher scores on the STC, tend to score lower on the TRAQ, implying a lack of preparedness for adult life. The Pearson correlation coefficient of -0.51 highlights an inverse relationship between dietary quality and transition readiness: as dietary practices worsen, readiness for adulthood diminishes.

Conversely, improved dietary patterns correlate with a higher degree of preparedness for adulthood. This negative correlation emphasizes the distinct roles the two measures play in capturing different aspects of the participants' readiness and health behaviours. Additionally, the perfect R^2 value in the line fit plot confirms a strong linear relationship between the two variables, indicating that the model's predictions based on the data points are extremely precise.

The research found that both genders exhibit similar levels of preparedness for the transition, indicating that gender may not be a critical determinant of readiness. This contrasts with another study that found lower preparedness levels among females attributed to dietary patterns [26]. Nevertheless, the findings highlight the necessity of considering additional factors that could influence transition readiness.

The regression model accounts for only 26.2% of the variability in transition readiness, leaving 73.8% of the variance unexplained. This significant unexplained portion suggests that other influential factors not included in the model may be at play. These factors are crucial in shaping adolescents' behaviours and preparedness for adulthood. Future research should consider the clinical characteristics of participants' comorbidities, as these conditions and the medications used to manage them may be associated with variations in dietary intake. Recent research indicates that medications prescribed for comorbid conditions in autism, such as venlafaxine, a common antidepressant used to treat anxiety and depression, can impact appetite due to side effects [27]. This interaction underscores the potential for medication to alter dietary intake, a particularly significant consideration for individuals with comorbidities [28].

Furthermore, food selectivity, affecting 46% to 89% of children with autism and often persisting into adolescence, has been identified as another significant factor [29]. Food selectivity can substantially influence the nutritional intake of adolescents with autism, potentially exacerbating the severity of autism symptoms and impacting their overall development and readiness for adult responsibilities.

It is imperative to acknowledge several constraints when interpreting the study's findings. This cross-sectional pilot study includes 47 participants with autism and co-occurring conditions, such as mood disorders, attention-deficit/hyperactivity disorder, depression, anxiety disorders, irritability, and disruptive behaviour. Future directions involve large-scale studies with neurotypical individuals over a longitudinal period. Another limitation is the exclusion of participants requiring parental consent, emphasizing the need for a more diverse subject sample over an extended period to establish the generalizability of the findings.

The implications of this research extend to future endeavors, urging a broader research scope that includes a neurotypical control group for comparative analysis. Considering the impact of parental involvement and the role of comorbid conditions is crucial for a comprehensive assessment. Additionally, intervention studies targeting dietary behaviours and assessing their impact on transition readiness could provide a more holistic perspective on the complex interplay between diet and readiness for transition.

The study underscores the importance of addressing the significant funding disparity in autism research. In 2018, only 3% of the U.S. federal funding dedicated to autism research was allocated towards understanding the pivotal transition into adulthood [30,31]. Meanwhile, despite federal mandates under the Individuals With Disabilities Education Act (IDEA) [32], which guarantees special education services until the age of 21, many adolescents with autism face significant challenges transitioning into adulthood. This stark underfunding highlights the critical need for thorough investigations. Thus, this research is an essential foundation for future studies to effectively support adolescents with autism during this crucial developmental phase.

Conclusions

The evidence shows an association between dietary quality and transition readiness, emphasizing challenges in the transitional process. Additional research is essential to explore potential interventions.

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