

Intervention for the management of stress manifestations in parents of children with autism spectrum disorder

*Esther Ellumi Irene Portales Marquez*¹,

*Diana Carolina Ortiz Quispe*¹,
Nancy Laura Salinas Escobar^{1, 2},

¹ Universidad Peruana Cayetano Heredia, School of Nursing, Lima, Peru.

² Hospital Nacional Arzobispo Loayza, Lima, Peru.

ABSTRACT

Objective: To determine the effectiveness of an educational intervention in managing stress manifestations in parents of children with autism spectrum disorder (ASD). **Materials and methods:** Pre-experimental study conducted in Lima, Peru. The sample included 50 parents of children with ASD at a Special Basic Education Center. The validated instrument “Questionnaire on manifestations of stress in parents of children with autism” was used. Data analysis was performed using the statistical program Stata v.18.0, employing frequency distributions and the paired Student's t test. **Results:** The average stress score decreased from 38.88 before the intervention to 23.62 after the intervention. In the behavioral/physical manifestations dimension, the predominant indicators prior to the intervention were muscle tension (32.0%) and fatigue (30.0%); subsequently, appetite disturbances (8.0%) and muscle tension (6.0%) stood out. In the psychological manifestations dimension, fear and worry decreased from 72.0% and 56.0% (pre-test) to 28.0% and 18.0% (post-test), respectively. **Conclusions:** The educational intervention proved to be effective in managing manifestations of stress in parents of children with ASD.

Keywords: autism spectrum disorder; stress; parents; effectiveness of interventions.

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Scientific contribution:

Caring for children with autism generates significant physical and psychological stress in parents. Given the scarcity of programs for caregivers—most of which are primarily child-centered—this study evaluates the effectiveness of an educational intervention aimed at managing parental stress.

INTRODUCTION

Se estima que en América Latina existen aproximadamente 300,000 niños diagnosticados con trastorno del espectro autista (TEA) que viven en América Latina. Esta condición afecta a 1 de cada 94 niños y a 1 de cada 150 niñas (1). Los niños con esta condición a menudo exhiben alteraciones conductuales, de comunicación, de interacción social, y de desarrollo emocional, así como intereses restrictivos o repetitivos (2).

En el hogar, las familias requieren preparación y adaptación, ya que recibir este tipo de diagnóstico en un niño representa un cambio de vida significativo que genera incertidumbre y estrés (3). Esta situación impacta el entorno familiar, la dinámica, y la estabilidad financiera. Además, puede afectar indirectamente los rasgos de personalidad y las respuestas conductuales, con consecuencias negativas para su salud física y bienestar emocional (4).

La demanda por cuidados aumenta o causa estrés debido a la carga física, emocional, y de sobrecarga familiar en el padre, quien se convierte en el cuidador principal. Por lo tanto, el estrés parental se define como el malestar derivado de las demandas asociadas con desempeñar este rol, un aspecto que se acentúa en los padres de niños con TEA (1).

Para proteger y promover la salud, los profesionales de enfermería brindan atención holística a estos pacientes y sus familias. Para mejorar tanto el bienestar físico como psicológico, se utilizan estrategias basadas en comunicación y técnicas de relajación que promueven el cambio positivo (5).

El profesional de enfermería busca brindar el cuidado requerido por los padres a través de apoyo psicosocial, orientación, educación en salud, acompañamiento, y consejería. El objetivo es permitirles desempeñar su rol de cuidadores de manera efectiva, manteniendo el equilibrio físico y mental mientras fomentan interacciones familiares asertivas. Al equipar a los padres con herramientas de afrontamiento adecuadas, pueden regular mejor sus comportamientos y manejar las manifestaciones de estrés cuando surgen (6).

En este sentido, las intervenciones educativas se definen como acciones motivacionales, pedagógicas, metodológicas, y evaluativas implementadas durante un período definido. Su propósito es educar a individuos o grupos para lograr objetivos predeterminados (7).

Varias investigaciones han implementado intervenciones entre los padres de niños con TEA. En Arabia Saudita, tras una intervención, las prácticas de cuidado apropiadas aumentaron del 35.0% al 75.0% (8). En Egipto, tras una intervención de consejería, el estrés moderado reportado por los padres disminuyó del 57.5% al 26.0%, mientras que la expresión de respuestas emocionales intensas declinó del 80% al 32.5% (9).

De manera similar, en Chile, con la implementación de un programa, la puntuación promedio del conocimiento de los padres sobre el TEA aumentó de 57.71 a 88.76 puntos (10). De la misma manera, un estudio realizado en Perú demostró que antes de la intervención, el 54.0% de los padres reportó experimentar manifestaciones de estrés "casi siempre" y "siempre"; posteriormente, el 84.0% reportó experimentarlas "casi nunca" y "nunca" (11).

Esto resalta la importancia de las intervenciones por parte de los profesionales de la salud, dada la alta prevalencia de estrés experimentado por los padres en esta situación (12). Sin embargo, la investigación y las políticas públicas centradas en el bienestar de los padres de niños con TEA siguen siendo limitadas. Dentro del contexto nacional, el problema radica en la escasez de intervenciones educativas lideradas por enfermería que aborden la salud mental de esta población. Por lo tanto, el presente estudio fue diseñado para determinar la efectividad de una intervención destinada a manejar las manifestaciones de estrés en los padres de niños con TEA que asisten a un Centro Especializado de Educación Básica.

MATERIALS AND METHODS

Este estudio utilizó un enfoque cuantitativo con un diseño pre-experimental. Se realizó en un Centro Especializado de Educación Básica ubicado en el distrito de Puente Piedra, Lima, Perú.

La población de estudio consistió en 135 padres de niños diagnosticados con TEA. Tras el cálculo de la muestra, se obtuvieron 48 participantes; sin embargo, para compensar los datos faltantes potenciales, se incrementó el muestreo en un 3.0%, resultando en un total final de 50 participantes. Los participantes fueron seleccionados mediante muestreo aleatorio simple no probabilístico.

La recolección de datos se realizó utilizando el "Cuestionario sobre Manifestaciones de Estrés en Padres de Niños con Trastorno del Espectro Autista", desarrollado por Chayan et al. (11) en Perú. El instrumento fue validado por diez expertos; la prueba binomial indicó un nivel de significancia de 0.0087 ($p < 0.05$). La confiabilidad se determinó mediante una prueba piloto con 17 padres, lo que resultó en un coeficiente de confiabilidad de Cronbach de 0.878.

El cuestionario consistió en 20 indicadores distribuidos en dos subescalas: manifestaciones conductuales/físicas (fatiga o agotamiento, dolores de cabeza, dificultades para conciliar el sueño, nerviosismo, sobrealimentación, pérdida de apetito, tensión muscular, uso de medicamentos, e impulsividad) y manifestaciones psicológicas (ansiedad, preocupación por el comportamiento del niño, temor a daños potenciales al niño, depresión, dificultad para tomar decisiones relacionadas con la salud del niño, dificultad para concentrarse en otras actividades diarias, irritabilidad o mal humor, dificultad para relajarse, preocupación por la responsabilidad parental, exaltación, y pérdida de confianza en uno mismo). La evaluación se realizó mediante una escala Likert de 0 a 4 puntos, estructurada de la siguiente manera: 0 (nunca), 1 (casi nunca), 2 (a veces), 3 (casi siempre), 4 (siempre).

always), and 4 (always). The educational intervention, entitled "Learning to Manage Stress," was supervised by a mental health professional and consisted of two in-person sessions lasting approximately 50 minutes each, with a frequency of once a week. The first session was conducted on the same day as the pre-test administration.

For pedagogical purposes, the sample was divided into two groups of 25 parents; both groups received the same intervention and information. Each session was structured into two approximately 25-minute segments: a theoretical component and a practical component, supported by didactic and supplementary educational materials.

Each session began with an introductory activity. The first session addressed the definition of stress, its physical manifestations, physical well-being, problem-solving strategies, and relaxation techniques. The second session focused on psychological manifestations, their classification, mental well-being, and relaxation techniques. At the end of each session, a feedback segment was conducted to address participants' questions. An informational brochure was handed out, and upon completion of the program, attendees received a healthy snack kit.

The post-test was administered seven business days after the final session under the same conditions and facilities as the pre-test. This interval was considered appropriate to identify information assimilation and retention among participants.

Data analysis was performed using STATA version 18. After analyzing normality, a paired Student's t-test was selected. A statistical significance level of 0.05 ($p < 0.05$) was considered.

The study adhered to established bioethical principles, even obtaining informed consent. These principles were observed, monitored, and approved by the Research Ethics Committee of Universidad Peruana Cayetano Heredia.

RESULTS

Table 1 presents the sociodemographic data of the study sample. 96.0% of participants were women, and the mean age was 39.

Table 1. Sociodemographic data of parents of children with autism spectrum disorder (ASD) attending a Special Basic Education Center.

General data	n	%
Sex		
Male	2	4.0
Female	48	96.0
Age		
Mean	39.0	
Standard deviation	6.5	
Minimum age	29	
Maximum age	50	

Table 2 shows that, before the intervention, the most frequent stress indicators within the behavioral/physical manifestations dimension were muscle tension (32.0%) and fatigue (30.0%). In contrast, the least frequently reported indicators were medication use (70.0%) and nervous tics (50.0%). After the intervention, the most recurrent indicators were appetite disturbances (8.0%) and muscle tension (6.0%), whereas those with the lowest incidence were medication use (80.0%), nervous tics (72.0%), and excessive food intake (72.0%).

Table 2. Stress manifestations in parents of children with autism spectrum disorder (ASD): behavioral/physical manifestations dimension

Behavioral/physical manifestations	Test	Never/Almost never		Sometimes		Almost always/Always	
		n	%	n	%	n	%
Do you experience fatigue or exhaustion, even after sleeping the necessary number of hours?	PRE	8	16.0	27	54.0	15	30.0
	POST	24	48.0	25	50.0	1	2.0
Do you experience headaches caused by the constant care your child with autism requires?	PRE	9	18.0	31	62.0	10	20.0
	POST	23	46.0	26	52.0	1	2.0
Do you have difficulty falling asleep because you are worried about your child?	PRE	13	26.0	25	50.0	12	24.0
	POST	29	58.0	21	42.0	0	0.0

PRE: pre-test measurement; POST: post-test measurement.

Table 2. (Continuation).

Behavioral/physical manifestations	Test	Never/Almost never		Sometimes		Almost always/Always	
		n	%	n	%	n	%
Have you experienced nervous tics or tremors (e.g., excessive blinking, lip biting, or nail biting) since your child's diagnosis?	PRE	25	50.0	16	32.0	9	18.0
	POST	36	72.0	13	26.0	1	2.0
Do you overeat because of stress?	PRE	17	34.0	23	46.0	10	20.0
	POST	36	72.0	14	28.0	0	0.0
Has your appetite decreased due to stress?	PRE	22	44.0	19	38.0	9	18.0
	POST	32	64.0	14	28.0	4	8.0
Do you experience muscle tension due to stress?	PRE	7	14.0	27	54.0	16	32.0
	POST	29	58.0	18	36.0	3	6.0
Has your use of medications (e.g., analgesics, sleep aids, tranquilizers, etc.) increased?	PRE	35	70.0	10	20.0	5	10.0
	POST	40	80.0	10	20.0	0	0.0
Do you respond impulsively toward your child?	PRE	15	30.0	30	60.0	5	10.0
	POST	31	62.0	19	38.0	0	0.0

PRE: pre-test measurement; POST: post-test measurement.

Table 3 shows that, before the intervention, the most frequent stress indicators within the psychological manifestations dimension were fear (72.0%) and worry (56.0%). In contrast, the least common were self-confidence (40.0%), decision-making ability

(30.0%), and irritability (30.0%). After the intervention, the most recurrent indicators were fear (28.0%) and worry (18.0%), whereas the least frequent indicators were self-confidence (78.0%) and irritability (68.0%).

Table 3. Stress manifestations in parents of children with autism spectrum disorder (ASD): psychological manifestations dimension.

Psychological manifestations	Test	Never/Almost never		Sometimes		Almost always/Always	
		n	%	n	%	n	%
Do you feel anxious (e.g., restlessness, fear of losing control, mental blocking, "lump" in the throat)?	PRE	12	24.0	33	66.0	5	10.0
	POST	25	50.0	25	50.0	0	0.0
Are you worried about not knowing how to manage your child's behavior with autism?	PRE	6	12.0	19	38.0	25	50.0
	POST	21	42.0	23	46.0	6	12.0
Do you feel fear about what might happen to your child when you are not caring for them?	PRE	1	2.0	13	26.0	36	72.0
	POST	7	14.0	29	58.0	14	28.0
Have you felt depressed during the past two weeks due to your child's difficulties?	PRE	12	24.0	23	46.0	15	30.0
	POST	32	64.0	18	36.0	0	0.0
Do you have difficulty making decisions about your child's health?	PRE	15	30.0	24	48.0	11	22.0
	POST	32	64.0	18	36.0	0	0.0

PRE: pre-test measurement; POST: post-test measurement.

Table 3. (Continuation).

Psychological manifestations	Test	Never/Almost never		Sometimes		Almost always/Always	
		n	%	n	%	n	%
Do you have difficulty concentrating on daily activities unrelated to your child's care?	PRE	9	18.0	30	60.0	11	22.0
	POST	27	54.0	22	44.0	1	2.0
Do you feel irritable or in a bad mood at any time of the day without an apparent cause?	PRE	15	30.0	27	54.0	8	16.0
	POST	34	68.0	14	28.0	2	4.0
Do you have difficulty relaxing?	PRE	8	16.0	20	40.0	22	44.0
	POST	25	50.0	25	50.0	0	0.0
Are you concerned about the responsibility involved in caring for your child?	PRE	6	12.0	16	32.0	28	56.0
	POST	19	38.0	22	44.0	9	18.0
Does your child's behavior cause you to become emotionally overreactive?	PRE	8	16.0	33	66.0	9	18.0
	POST	23	46.0	26	52.0	1	2.0
Do you believe you have lost self-confidence in adequately managing your child's condition?	PRE	20	40.0	22	44.0	8	16.0
	POST	39	78.0	10	20.0	1	2.0

PRE: pre-test measurement; POST: post-test measurement.

Table 4 presents the management of stress manifestations among parents of children with ASD. The total average score before the educational intervention was 38.88, which decreased to 23.62 after the implementation of the program. This difference was statistically significant ($p = 0.000$).

Table 4. Management of stress manifestations in parents of children with autism spectrum disorder (ASD) attending a Special Basic Education Center

Statistic	Pretest	Posttest
Mean	38.88	23.62
SD	11,27	9,551
n	50	50

Statistical significance ($p = 0.000$).

Stress Manifestations	Mean	SD	95% CI of the difference	
			Lower	Upper
Pre-Post	15.26	15.29	10.9	19.6

t de Student	df	(Bilateral) Significance
7,059	49	0,000

SD: standard deviation; df: degrees of freedom.

DISCUSSION

The analysis of the results reveals a predominance of psychological manifestations before the intervention (fear at 72.0% and worry at 56.0%), compared to physical manifestations (muscle tension at 32.0% and fatigue at 30.0%). Although there is limited national and international research on similar interventions, the study by Tinoco et al. (12) in Brazil is consistent with these findings, reporting a predominance of psychological manifestations (distress at 69.0% and desire to escape at 64.0%), followed by physical manifestations (muscle tension at 58.0%). Furthermore, the statistically significant difference between pre-test and post-test scores shows the effectiveness of the intervention. This finding is consistent with the studies conducted by Hen-Karemet al. (8) in Saudi Arabia and Hend et al. (9) in Egypt, who reported significant effectiveness and emphasized the importance of the practical implementation of educational interventions to achieve positive outcomes.

These findings show the importance of addressing the needs of parents who, as primary caregivers of children with ASD, cope with stress. Montalvo et al. (13) explain that this group may experience stress, depression, and anxiety; both physical and psychological manifestations adversely affect their well-being, thereby requiring structured support measures.

This involves providing comprehensive and holistic care that enables parents to function effectively in their

caregiving role. In this regard, Periche and Pantoja (14) state that Peru faces limitations in interventions specifically designed for parents of children with ASD, in contrast to Spain, where programs such as MEJORA prioritize the well-being of the parent-child dyad.

It is necessary to analyze the psychosocial adaptability of parents, given that their coping with their children's diagnosis and situation is altered by their desire to satisfactorily meet their needs (15). Within the framework of family diversity, factors such as life transitions, stress, and anxiety may negatively impact quality of life, family structure, and overall functioning (16). La Torre et al. (17) indicate that parental stress is affected by the physical, psychological, and economic demands of children. Medina (18) states that stress levels correlate with disorder severity and the child's emotional characteristics, which increases caregiving demands.

From this perspective, the importance of nursing interventions on manifestations of stress and mental health is confirmed. As suggested by Hernández-Benites et al. (19), nursing professionals play a crucial role in involving the family, educating them about the condition, decision-making, emotional support, and relaxation techniques. Parental support and care should include analyzing stressors, focusing counseling on self-care (20). In line with this approach, Porrás-Caballero et al. (21) highlight the benefits of reducing anxiety and stress in patients and caregivers to promote overall emotional and physical health.

Based on the analysis, the effectiveness of the intervention is attributed to the planning of content in clear

and accessible language. The teaching methodology and the active participation and involvement of parents helped eliminate barriers between the speaker and the listener. This strategy helped to build trust among participants, encouraging them to freely express their doubts.

The applied methodology provided parents with practical tools and knowledge to identify their stress manifestations and manage them through relaxation techniques. Participants expressed strong interest and reported that most conventional interventions focus exclusively on the child, often neglecting caregiver well-being.

The main limitation of the study was the scarcity of previous research focusing on interventions by health professionals. Therefore, it is recommended that the scientific community promote further research and implementation of interventions aimed at managing stress manifestations in parents of children with ASD. In the same way, nursing professionals must safeguard the mental health of caregivers, providing them with the necessary tools to apply in their daily lives.

CONCLUSIONS

The implementation of an educational intervention significantly reduced stress levels among parents of children with ASD. At the same time, findings revealed a higher prevalence of psychological manifestations compared to physical manifestations among participants.

Conflict of interest:

The authors declare no conflict of interest.

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This research study was approved by the Research Ethics Committee of Universidad Peruana Cayetano Heredia under Certificate CIEI-486-30-24.

Authorship contribution:

EEIPM, DCOQ: conceptualization, formal analysis, research, methodology, validation, visualization, project administration, writing of the original draft, writing - review & editing.

NLSE: software, formal analysis, validation, supervision, project administration, writing - review & editing.

Corresponding author:

Esther Ellumi Irene Portales Marquez

✉ esther.portales@upch.pe

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