

شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلو

بسم الله الرحمن الرحيم





MONA MAGHRABY



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جامعة عين شمس التوثيق الإلكتروني والميكروفيلم قسم

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MONA MAGHRABY

Impact of Counseling on Quality of Life and Treatment Adherence for Acute Lymphoblastic Leukemic Children

Thesis

Submitted for Partial Fulfillment of the Requirements of Doctoral Degree in Pediatric Nursing

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List of Abbreviations

Abb.	Meaning
ALL	Acute Lymphoblastic Leukemia
ACS	American Cancer Society
BMA	Bone Marrow Aspirations
CBC	Complete Blood Count
CNS	Central Nervous System
CSF	Cerebral Spinal Fluid
DNA	Deoxyribo Nucleic Acid
FAB	French American Breach
HDMTX	High Dose Mithotrxat
MRD	Minimal Residual Disease
PCR	Polymerase Chain Reaction
QOL	Quality of Life
WHO	World Health Organization

ABSTRACT

The aim of this study was to assess the impact of counseling on quality of life (QoL) and treatment adherence. Research designs: A quasi experimental research design. Setting: The study was conducted at Pediatric unit in National Cancer Institute belonging to Cairo University .**Subjects**: A purposeful sample composed of thirty children out of 90 children aged from 6 to 18 years had eligible criteria which were newly diagnosed with Acute Lymphoblastic Leukemia, in the initial diagnosis period and received chemotherapy treatment at the first day of induction phases and had been accompanied by their mother and admitted to the previously mentioned setting. **Tools** of data collection was a structure interviewing questionnaire, kid Screen-Scale to assess quality of life pre and post counseling and Medication Adherence Scales to assess treatment adherence post counseling. Results: The study results revealed that there was a highly statistically significant difference on quality of life of children pre and post counseling. Conclusion: It could be concluded that the counseling had a positive impact on children adherence to Acute Lymphoblastic Leukemia treatment which lead to promote the quality of life. Recommendation: The study recommended for application of counseling session for all Acute Lymphoblastic Leukemia children and their mothers to improve adherence to treatment which lead to promote their quality of life.

Key word: Counseling, Adherence, Quality of Life. Children, Acute Lymphocyte Leukemia and Mothers

INTRODUCTION

Leukemia is cancer that starts in blood forming cells in the bone marrow. There is more than one type of leukemia each type of leukemia is named based on how fast it grows and type of blood cell in which it begins. Leukemia cells usually invade the blood fairly quickly then spread to other parts of the body, including the lymph nodes, liver, spleen, central nervous system (brain and spinal cord), and testicles in males (American Cancer Society [ACS], 2018).

Acute lymphocytic leukemia (ALL) is also called acute lymphoblastic leukemia is a cancer that starts from the early version of white blood cells called lymphocytes in the bone marrow. ALL could be fatal if Children not treated. ALL childhood treatment requires that the child passes through three phases which are induction, consolidation and maintenance each phase require to specific time for fulfillment the effect of the drugs this needs a good relationship between the parent and the health care team (ACS, 2018).

Counseling is a process, organized in a series of steps, which aims to help people adapt to better with situations they are facing. This involves helping the individual to understand their emotions and feelings and to help them make positive

choices and decisions. Counseling is an approach for assisting people to reduce initial distress resulting from a difficult situation, and to encourage short and long-term adaptive functioning (American Counseling Association [ACA], 2014).

Quality of life (QoL) of children diagnosed with cancer decreases due to surgical interventions, radiotherapy, chemotherapy, prolonged hospitalization, side effects of treatments, being isolated from the society, physical and emotional problems, changes in the child's position and absence of role within the family and society, disruption of school life, lack of support systems and coping methods, Early and effective treatment is essential for a successful cancer treatment and high quality of life (Bektas et al., 2016).

Adherence is an interaction process between patient and medical team focus on patients' cognitive-motivational, active, intentional and responsible of self care to maintain health in close collaboration with healthcare personnel (*Groen et al.*, 2015). Medication adherence is define as the extent to which patients take their prescribed medications as recommended by their health care provider, Non adherence associated with increased health care utilization including higher rates of physician visits, hospitalization and longer average length of time spent in hospital (*Hall A. et al.*, 2016).

Pediatric oncology nurses are members of the oncology team continue to play critical roles in the care of children with ALL using an evidence based approach to reduce the burden of children and meet the needs for their families, at all levels will continue to play critical roles in the care of children with cancer as new diagnostic and treatment techniques become available through persistence, vigilance, and dedication, nurses will shape the development and modification of practice standards that promote safe and effective pediatric cancer care (*Branowicki et al., 2015*).