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abstract

Impact of Supportive Care Interventions on Quality of Life in Pediatric Hematologic Disorders: Systematic Review and Meta-analysis

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Impact of Supportive Care Interventions on Quality of Life in Pediatric Hematologic Disorders: Systematic Review and Meta-analysis

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Background: Supportive care is employed in pediatric hematology. This study explores the impact of supportive care modalities on the Quality of Life in pediatric hematologic disorders.

Methods: Studies were searched from online databases and selected against predetermined eligibility criteria. A random-effects subgroup meta-analysis was conducted to calculate the standardized mean difference (SMD) at 95% confidence interval. Subgroups were based on physical, emotional, familial/social, and scholarly functionalities.

Results: Six studies met the requirements for inclusion. The meta-analysis reported a significant change in QoL when comparing initial QoL scores to final QoL scores (SMD -1.11 [$-1.54, -0.68$], $P < 0.00001$). When compared to a control standard treatment, the impact of these interventions lacks significance (SMD -0.01 [$-0.67, 0.65$] [$P = 0.97$]). Included studies explored interventions such as group creative art therapy, social support, adapted physical activity, and nurse-led interventions (custom).

Conclusions: Standard hospital care and supportive care interventions have a relatively similar impact on the QoL of children hematologic patients.