

# Health related quality of life in children and adolescents with

## Sickle cell disease in Central India

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### ABSTRACT

**Background:** Sickle cell disease (SCD) is a major health problem in various parts of India with central India having high burden. Health related Quality of life (HRQOL) is important component in management of children with SCD. **Objectives:** 1) To assess the HRQOL in children and adolescents with homozygous (SS pattern) and heterozygous (AS pattern) sickle cell disease in comparison to healthy children. 2) To assess the impact of socio-demographic factors on various domains of HRQOL in children with SS pattern. **Design and setting:** This is a case control study conducted in tertiary care hospital in central India from October 2015 to 2017. Study group constituted children 8-18 years old having SS pattern or AS pattern SCD, attending sickle cell clinic or admitted in hospital. 100 healthy demographically matched children were enrolled for comparison. **Intervention:** HRQOL was assessed using WHO-QOL BREF questionnaire in both the groups. Multivariable linear regression was used to account for socio-demographic factors influencing HRQOL. **Results:** The WHO-QOL BREF scores in children with SS pattern were significantly lower than those obtained in AS pattern and healthy children ( $p < 0.001$ ) in all studied domains (physical, psychological, social and environmental). The domain scores of HRQOL in children with AS pattern didn't differ significantly as compared to healthy children. Various demographic characteristics like age, gender, locality and socioeconomic status also had significant impact on domains of HRQOL. **Conclusion:** Sickle cell disease has detrimental effect on HRQOL of growing children and adolescent compounded by various demographic and socio-environmental factors in developing country.

### BIOGRAPHY

Nikita Gupta has completed her M.D in Pediatrics from Government Medical College, Nagpur, India. During her training in Pediatrics in Nagpur she carried out this study. Thereafter she has been trained in Pediatric Nephrology from B.J Wadia hospital for Children, Mumbai and IKDRC, Ahmedabad. At present she is Senior Resident, Department of Pediatrics, Lady Harding Medical College, New Delhi. She has 3 publications to her credit. She has won award in poster presentation in Indian Society of Pediatric Nephrology conference (ISPNCN) in 202. She is member of Indian Academy of Pediatrics and Indian society of Pediatric Nephrology

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