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## Childhood-onset systemic lupus erythematosus - an experience of tertiary care hospital: A descriptive study

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**Objective:** To determine the clinical and immunological characteristics and short term outcome of children with systemic lupus erythematosus (cSLE) presented at a tertiary care center in Karachi, Pakistan.

**Design:** A descriptive observational study conducted at the Pediatric Rheumatology Clinic of Aga Khan University Hospital (AKUH), Karachi, from January 2011 to April 2015.

**Methodology:** Data of children <16 years of age, admitted at the Pediatric ward, diagnosed with cSLE, was studied.

**Results:** 32 children satisfying the criteria of American College of Rheumatology (ACR) for cSLE were enrolled. A female predominance was observed, with 87.5% of the patients being female. Mean age at symptom onset was  $10.5 \pm 2.7$  years and  $8.8 \pm 2.1$  years in females and males respectively. Mean age at diagnosis was  $11.3 \pm 2.8$  years in females and  $9.4 \pm 1.9$  years in males. Fever was the most common non-specific symptom found in 84% patients. Sixty nine percent children were found to be anemic and 56% had signs of arthritis at presentation. Renal involvement was observed in 47% patients. The most common immunological markers were found to be serum Anti-neutrophil antibodies (ANA), positive in 88% patients, followed by Anti double-stranded DNA antibodies (anti ds-DNA), raised in 81% cases. Overall response rate to therapy was 50% in 20 children who were followed for 4 years.

**Conclusion:** We found that cSLE encompasses a wide variety of manifestations with female preponderance. Fever and Arthralgia are the most frequent clinical findings. Hemolytic anemia is the most common laboratory abnormality, with ANA and Anti ds-DNA positivity in majority of patients.

### Biography

Farida Karim has completed her MBBS from Jinnah Medical and Dental College Karachi and internship from Aga Khan University Hospital. She is working currently as Medical Officer in the Aga Khan University Hospital, Pakistan's best and most advanced healthcare service organization. She has published three articles and is working on several other projects that are under reviewing process.

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