Correspondence

Comment on: Pediatric systemic lupus erythematosus.

Retrospective analysis of clinico-laboratory parameters and their association with systemic lupus erythematosus disease activity index score

To the Editor

I read with interest the article by Siti et al,1 on pediatric systemic lupus erythematosus, retrospective analysis of clinico-laboratory parameters and their association with systemic lupus erythematosus disease activity index score (SLEDAI). In which 32 p-SLE patients were reviewed, the most common clinical manifestation were renal disorder followed by malar rash and finally oral ulcer. More than half of the patients had active disease measured by the SLEDAI >6, which was significantly associated with heavy pyuria, elevated ANA titer and high ESR level.

Pediatric-onset SLE (pSLE) represents 10-20% of all SLE cases, they tend to have more fulminant onset, severe disease course and higher mortality rate.² Even the clinical manifestation are different as demonstrated in a SLE registry which included 342 adult SLE (aSLE) and 79 pSLE. ediatric-onset SLE had more Lupus nephritis and mucucutenouse involvement, while aSLE had more neurological involvement and polyarthritis.³

When evaluating SLE patients, it is noteworthy to differentiate between activity index (such as SLEDAI) and damage indexes (such as SLICC), as the later includes several items that are more common among older populations and no items of growth or maturation which are specific to the pediatric age group.4

In this study, it is noticed that pSLE have High ESR and Pyuria which could be related to either to SLE flare versus active infection. A recent publication by the Michigan Lupus Cohort among 53 hospitalized SLE due to fever (28 flare and 25 infection), found that the ratio of ESR to CRP (ESR:CRP) may provide a superior diagnostic value to the individual ESR or CRP levels in distinguishing flare versus infection. Each unit increase in the ratio of ESR:CRP was associated with a 17% increase in the odds of fever being attributable to SLE flare compared to infection.⁵

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Reply from the Author

We have no further comments pertaining to the correspondence and we agree with what has been raised up by Dr. Suzan Attar.

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References

- 1. Siti Khadijah S.M. Nazri, Kah K. Wong, Wan Zuraida W. A. Hamid Pediatric systemic lupus erythematosus Retrospective analysis of clinico-laboratory parameters and their association with Systemic Lupus Erythematosus Disease Activity Index score. Saudi Med J 2018; (6): 627-631.
- 2. Kamphuis S1, Silverman ED. Prevalence and burden of pediatric-onset systemic lupus erythematosus. Nat Rev Rheumatol 2010; 6: 538-546.
- 3. Mina R, Brunner HI. Update on differences between childhoodonset and adult-onset systemic lupus erythematosus. Arthritis Res Ther 2013; 15: 218.
- 4. Alamoudi OS, Attar SM.Pulmonary manifestations in systemic lupus erythematosus: association with disease activity. Respirology 2015; 20: 474-480.
- 5. Littlejohn E, Marder W, Lewis E, Francis S, Jackish J4, McCune WJ, et al. The ratio of erythrocyte sedimentation rate to C-reactive protein is useful in distinguishing infection from flare in systemic lupus erythematosus patients presenting with fever. Lupus 2018; 27: 1123-1129.