



POSTER PRESENTATION

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# PReS-FINAL-2295: Correlations of health related quality of life reports completed by children with lupus and parents

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## Introduction

Children with chronic diseases and parents often perceive disease impact differently. We previously found moderate correlations between child-parent reports of Simple Measure of Impact of Lupus Erythematosus in Youngsters (SMILEY).

## Objectives

To examine the correlation between child and parent health-related quality of life (HRQOL) scores in an expanded sample from the United States (US) and Latin America (LA).

## Methods

A cross-sectional multicenter cohort of children ( $\leq 18$  years) with systemic lupus erythematosus (SLE) and parents completed the specific translation of SMILEY and Pediatric Quality of Life Inventory (PedsQL) Generic scales. Higher scores indicate better HRQOL for both scales. Independent and paired samples t-test were used to compare scores. We examined Spearman's correlation ( $\rho$ ) and intra-class correlation (ICC) between child and parent scores.

## Results

Mean child- (LA  $67 \pm 15$ ,  $n = 123$ ; US  $64 \pm 14$ ,  $n = 162$ ) and parent-report (LA  $64 \pm 16$ ,  $n = 129$ ; US  $62 \pm 15$ ,  $n = 148$ ) total SMILEY scores were higher for LA subjects.

Some SMILEY domain scores ( $p < 0.05$  for Effect of Self-child-report; and Social-child- and parent-reports); and child-report PedsQL total scores were also higher for LA subjects. US and LA child-report scores of SMILEY and PedsQL were higher ( $p < 0.05$ ) compared to corresponding parent-report scores. For child-parent pairs, correlations ranged from 0.3-0.7 (table 1), with lowest correlation in the Social domain.

## Conclusion

As shown previously, children and parents may have varying attitudes about the impact of SLE on HRQOL. Because parents tend to overestimate disease impact, it remains critical to use both parent and child reports while assessing HRQOL.

## Disclosure of interest

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**Table 1 Child-parent correlations from US and LA (p values for  $\rho$  and ICC  $< 0$ )**

Scale and domains	US- $\rho$ (n); ICC	LA- $\rho$ (n); ICC
<b>SMILEY total</b>	0.5 (145); 0.5	0.5 (122); 0.5
Effect on self	0.6 (144); 0.6	0.5 (122); 0.5
Limitations	0.5 (145); 0.5	0.6 (122); 0.6
Social	0.4 (145); 0.4	0.3 (122); 0.3
Burden of SLE	0.5 (144); 0.5	0.4 (121); 0.5
<b>Peds QL Generic total</b>	0.7 (138); 0.6	0.7 (100); 0.6

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