

ATOPIC ECZEMA/DERMATITIS

## METHODS OF EVALUATION, IN REAL LIFE, OF THE WEARING OF A COSMETO-TEXTILE IN THE CARE OF INFANTS WITH ATOPIC SKINS: PILOT STUDY

C Bodemer<sup>(1)</sup> - S Merrhand<sup>(2)</sup> - C Taieb<sup>(3)</sup>

*Chu Necker Enfants Malades, Dermatologie, Paris, France<sup>(1)</sup> - French Patients' Association, Eczema, St Nazaire, France<sup>(2)</sup> - Emma, Fimarad Hopital Necker Enfants Malades, Fontenay Sous Bois, France<sup>(3)</sup>*

**Background:** The Cosmeto-textile is a technology that merges the cosmetics and the textiles worlds through the micro-encapsulation process. A pajama composed of 100% Cotton fibre has been created to be worn in addition to the application of the usual emollient-balm or emollient-cream of infants with atopic-skin. The pajama cotton fibre is Oekotex certified, an European label

**Methods:** It is a pilot study., was carried out during 4-weeks, in real life conditions. Data [alteration of the sleep and the intensity of the pruritus] were collected via an application allowing for interrogation every 48 hours. On the 1st and 28th-day, the respondent parent completed 4 validated questionnaires: Epworth-scale-SF12-FDLQI- ABS-F

**Results:** 28 parents downloaded the application. After one-week, the prevalence of improvement for the embarrassment connected to the itches and for sleeping disorders was respectively 68% and 63%

After two-weeks, the prevalence of improvement was respectively 81% and 56%. After three-weeks the data were stable.

After 28-days, the diurnal-slumber improved: [day0=11.06±3.95]vs[day28=6.62±4.8]. According to the published standards for this scale the improvement is relevant. The FDLQI-score was 12.75±4.73 to D0 vs 9.37±6.8 to D28. The ABS-F-score was 27.37±6.37 at D0 vs 23.43±8.58 at D28. The average score of the SF12 [mental-dimension] was 30,25±8,85 vs 39,73±13.

**Conclusions:** This evaluation should be considered as a feasibility study and a pilot-study. Regarding to the contribution of the cosmeto-textile, the size of the sample does not allow to carry out tests of statistical-significance; nevertheless we observe the same positive trend regardless of the used validated score