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**Primary cutaneous T cell lymphomas: Immunomodulation by photo chemotherapy with analysis of the inflammatory-expansive cellular dynamic**Luiz Werber-Bandeira, Evilmara Pagani and Absalon Filgueira  
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Primary cutaneous T cell lymphomas (CTCLs) are characterized by hyper proliferation of malignant CD4+ T cells with primary localization on the skin. The common characteristics are the migration of the malignant mature T-lymphocytes into the epidermis, with hyper proliferation of malignant CD4+ T cells and epidermotropism. Sézary syndrome (SS) is the leukemic variant. It was established that CTCLs arise from a clonal expansion of CD4+ T cells with an identical rearrangement of the T cell receptor. The purpose of this study was to evaluate the immunomodulation effect of photo chemotherapy-A [psoralen plus ultraviolet A (PUVA)]. Pre and post-PUVA punch skin biopsies of nine patients were stained immunohistochemically for CD34+, CD8+, CD7+, CD16+, CD56+, CD1a+, Bcl2+, p53+, CD45RA+, and CD45RO+ cells. The results showed a pre-PUVA cells/mm<sup>2</sup> without significant difference among expansive or reactive cells. Post-PUVA analysis showed a significant decrease in the mean of expansive-reactive cells. PUVA was immunomodulated decreasing cellular infiltrate. These findings could contribute to the comprehension of how PUVA acts. We achieved ectoscopic clearance of the lesions, although post-PUVA, there still was a mononuclear pathological infiltrate. This result demonstrates that the PUVA treatment should only be withheld when the histological analysis is normal.

**Biography**

Luiz Werber-Bandeira is the Head of Clinical and Experimental Immunology Unit - Santa Casa de Misericórdia do Rio de Janeiro, Brazil. He has a degree in Medicine; completed his Post-doctorate in Immuno-Genetics and; PhD in Medicine-Immunology-Dermatology at Federal University of Rio de Janeiro. He is also specialized in Clinical Immunology-Allergy at Federal University of Rio de Janeiro. He is reorganizer of the clinical and experimental immunology unit - Santa Casa da Misericórdia, Rio de Janeiro.

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