there are only a few changes necessary to make it function even better. And another 50% felt that it functions quite well on the whole, and there are only a few changes necessary to make it function even better. Assessment using a validated disease activity measure for SLE was regularly performed by 66.7% of the respondents and they all used Systemic Lupus Erythematosus Disease Activity Index (SLEDAI) with 2 responders using both SLEDAI and British Isles Lupus Activity Group (BILAG). Eighty-eight percent responded that mycophenolate mofetil (MMF) was approved for treatment of SLE in their country with 72.2% responding that it was reimbursed. It was 83.3% and 94.4% for intravenous (IV) cyclophosphamide, 50.0% and 80.0% for tacrolimus, 72.2% and 5.6% for belimumab and 33.3% and 33.3% for rituximab, respectively. MMF was most commonly used in induction therapy for lupus nephritis (40.0%, IQR 25.0 65.0), followed by IV cyclophosphamide National Institute of Health (NIH) protocol (20.0%, IQR 4.0 40.0), IV cyclophosphamide Euro-Lupus Nephritis Trial protocol (15.0%, IQR 5.0 27.5), tacrolimus plus MMF (2.5%, IQR 0.0 8.8), tacrolimus (0.0%, IQR 0.0 5.0), and oral cyclophosphamide (0.0%, IQR 0.0 2.0).

Conclusions There are disparities influencing the management of SLE in Asia and Pacific countries. Some of the recommended treatments for SLE are not approved and not reimbursed for management of SLE in some Asia and Pacific countries.

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**MIR-326 PROMOTES RENAL INJURY IN MURINE LUPUS NEPHRITIS**

1Yuan Xia*, 1Xuan Fang, 1Nan Xiang, 1Xiaojuan Dai, 1Li Jin, 1Xiaomei Li, 1Jinhui Tao, 1Xiangpei Li. 2Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei; 2Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei, Anhui; 2Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei.

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**Abstracts**

**Background** MicroRNAs play vital role in the immunopathogenesis of human and experimental lupus nephritis, but the contributions of miR-326 to renal injury in systemic lupus erythematosus (SLE) remain to be demonstrated. Here we characterize the function of the miR-326 in MRL/lpr mice of lupus nephritis.

**Methods** We generated MRL/lpr mice overexpression or silence in miR-326 and analyzed the clinical course of the nephritis with respect to albuminuria. In addition, renal Th17/T reg cells and IL-17A/TGF- expression were detected by flow cytometry and immune-histochemistry respectively.

**Results** miR-326 overexpression did increase the development of albuminuria in MRL/lpr mice. In contrast, miR-326 silence decreased the development of albuminuria. The characterization of renal CD4 + T cells in miR-326 overexpression mice revealed high numbers of infiltrating Th17 cells and low numbers of infiltrating Tregs. IL-17A and TGF- expression respectively increased and decreased in miR-326 overexpression mice.

**Conclusions** miR-326 overexpression plays major role in the immunopathogenesis of lupus nephritis in MRL/lpr mice. Thus, our results suggest that miR-326 may be an intriguing new therapeutic approach for patients with lupus nephritis.

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**MIR-326 REGULATES CD4+T CELLS DIFFERENTIATION IN LUPUS DISEASE OF MRL/lpr MICE**

1Yuan Xia†, 1Xuan Fang, 1Nan Xiang, 1Xiaojuan Dai, 1Li Jin, 1Xiaomei Li, 1Jinhui Tao, 1Xiangpei Li. 2Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China; 3Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China; 4Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei, Anhui; 5Department of Rheumatology and Immunology, The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei.

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**Background** CD4 + T cells play a major role in systemic lupus erythematosus (SLE). Many aberrations in miR-326 expression have been described as related to abnormal T cell activation in SLE. The aim of this study was to investigate the effect of miR-326 expression on the differentiation of CD4 + T cells in MRL/lpr mice.

**Methods** 3 groups of female MRL/lpr mice were injected with lentivirus-miR-326 (LV-326) or lentivirus-miR-326 specific inhibitor (LV-sponge) to increase or inhibit miR-326 expression, respectively, and lentivirus-no-encoding (LV-ctrl) as control10 mice per group. The percentage of Th17, Th1, and Treg cells in spleen were determined by flow cytometry, the expression levels of CD4 + T-related cytokines were determined by CBA and ELISA.

**Results** The results showed that, compared with LV-ctrl mice and LV-sponge mice, LV-326 mice had higher percentage of Th17 cells, and lower percentage of Tregs and Th1 cells in splenic CD4 + T cells. In contrast, LV-sponge mice had lower percentage of Th17 cells as well as higher percentage of Tregs and Th1 cells than LV-ctrl mice in splenic CD4 + T cells. Moreover, serum levels of IL-17A were significantly increased in LV-326 mice, compared with LV-ctrl mice and LV-sponge mice. Serum levels of IL-2 and TGF- were decreased in LV-326 mice compared with LV-ctrl mice.

**Conclusions** These findings suggest that miR-326 regulates CD4 + T cells differentiation and inflammatory-related cytokines production in lupus model mouse. Implying that miR-326 may play a vital role in SLE pathogenesis by regulating CD4 + T cells differentiation.

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