Title:

Diagnostic potential of metastasis-associated-lung-adenocarcinomatranscript- 1 (MALAT- 1) and TNF α and hnRNPL related immunoregulatory long non-coding RNA (THRIL) in systemic lupus erythematosus patients: Relation to disease activity.

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Abstract:

Aimof the work: to determine expression levels and diagnostic value of metastasis-associated-lung-adenocarcinoma-transcript-) (MALAT-)) and TNF α and hnRNPL related immunoregulatory long non-coding RNA (THRIL) in systemic lupus erythematosus (SLE), and to assess their role in the clinical characteristics of SLE and disease activity. Patients and *methods*: Study included ξ , patients with SLE and γ , matched controls. SLE Disease Activity Index (SLEDAI) score was assessed. Expression levels of MALAT-) and THRIL were detected in the serum by using Real-time polymerase chain reaction and $\Upsilon^{-\Delta\Delta CT}$ method. *Results*: mean age of patients was $\xi \cdot 1 \pm 9$ years ($\gamma \circ - \circ \circ$ years), they were $\gamma \wedge$ females and γ males and disease duration was $\gamma_{,\circ\pm}$, $\gamma_{,\circ\pm}$ years. Their mean SLEDAI was \circ . $\Lambda \pm \circ$. ∇ . Expression levels of MALAT- Λ and THRIL were found to be significantly upregulated in the serum of SLE patients compared with controls (set as)). MALAT-) fold change $\forall . \forall \pm \forall . \land (p=\cdot . \cdot \cdot \uparrow)$, and $(p=\cdot,\cdot,\cdot,\cdot)$. There were significant THRIL fold change= $\P, \exists \pm \P, \mathfrak{t}$ correlations between MALAT-) with THRILL $(r=\cdot, \xi\xi, p=\cdot, \cdot, \circ)$, proteinuria ($r=\cdot.$ ^{$\xi \circ$}, $p=\cdot.\cdot\cdot$ ^{η}), erythrocyte sedimentation rate ($r=\cdot.$ ^{$\xi \eta$}, $p=\cdot,\cdot,\cdot$) and SLEDAI ($r=\cdot,\tau, p=\cdot,\cdot,\varepsilon$). No significant correlations were found between THRIL and study parameters. Sensitivity and specificity of MALAT-) and THRIL were determined (sensitivity $\forall ... \%$ and 30% respectively),(specificity 3..% for both, total accuracy 4.%sensitivity and total accuracy to $\vee \cdot \%$ and $\wedge \uparrow \cdot \%$ respectively. THRIL was a significant predictor for SLE disease ($p = \cdot \cdot \cdot$). Conclusion: MALAT-) and THRIL may be potential diagnostic biomarkers for SLE and only MALAT-¹ may be valuable in detecting disease activity.