Results The dysfunction of apoptosis may be a direct consequence of alterations in genes such as Fas, Bcl-2 and C1q. Increased expression of Fas antigen could intensify the exposure of hidden antigens. The overexpression of Bcl-2 protein might inhibit the removal of auto-reactive cells, and the lack of C1q could impair the clearance of self-antigens. Increased apoptosis of lymphocytes especially regulatory T cells is also an important reason to lead to breakdown of immunotolerance.

Conclusions The complete knowledge of the role of apoptosis components in the etiopathogenesis of lupus could lead to the development of new therapies targeting the apoptotic threshold, which could result in a more specific and effective disease response compared to global immunosuppression.

Abstract 115 Figure 3 Patients PMPs induced significantly higher phosphorylated p38 expression in HL60 cells. HL60 cells were treated with control (CTL) or patient (PT) PMPs prior to cell lysis and western blot analysis for protein p38 phosphorylation. Untreated HL60 and PMA-activated HL60 were used as baseline and activated controls respectively. Phosphorylated p38 bands were quantified using Image J software and normalised to that of the untreated condition. n=8 for each treatment condition. The intensity of phosphorylated p38 bands in PT PMP-treated HL60 cells was significant higher than that of CTL PMP-treated (p=0.4) and PMA-activated (p=0.04) HL60 cells using Mann-Whitney test.

116 APOTOPSIS: INITIATION AND PROPAGATION IN THE KINETIC PROCESS OF SYSTEMIC LUPUS ERYTHEMATOSUS

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Background and aims Apoptosis is a genetically conserved pathway and a regular feature in normal tissue homeostasis. Aberrant cell apoptosis could result in imbalanced immune regulation and play an important role in the development of autoimmune diseases, especially in systemic lupus erythematosus (SLE).

Methods SLE is a complex, multisystem autoimmune disease characterised by production of high-titer autoantibodies directed against tissue-specific and ubiquitously expressed self-antigens. There has been greatly confirmed that accelerated cell apoptosis and apoptotic debris could account for the accumulation of a great deal of nuclear antigens, which could be presented to antigen presenting cells and lymphocytes, and subsequently induce incomplete immune tolerance, potentially through abnormal apoptotic signalling pathways and abnormal signalling thresholds on responding lymphocytes. Impaired clearance of apoptotic cells is also likely to be an important factor in SLE pathogenesis, which is originated from morphinecreasedologistical abnormalities, impaired differentiating and adhesion ability of macrophage cells, abnormal chemokines and phagocyte-related receptors expression and lack of complements.

Results The dysfunction of apoptosis may be a direct consequence of alterations in genes such as Fas, Bcl-2 and C1q. Increased expression of Fas antigen could intensify the exposure of hidden antigens. The overexpression of Bcl-2 protein might inhibit the removal of auto-reactive cells, and the lack of C1q could impair the clearance of self-antigens. Increased apoptosis of lymphocytes especially regulatory T cells is also an important reason to lead to breakdown of immunotolerance.

Conclusions The complete knowledge of the role of apoptosis components in the etiopathogenesis of lupus could lead to the development of new therapies targeting the apoptotic threshold, which could result in a more specific and effective disease response compared to global immunosuppression.