To the Editor:

Dr Samoszuk reported in Blood that IgE could be detected in 11 of 14 cases of Hodgkin’s disease (HD). He speculated that the IgE is probably bound to the CD23 (an IgE Fc receptor) associated with Hodgkin’s Reed-Sternberg (H-RS) cells and then internalized. In fact, a similar phenomenon has been observed in dendritic (Langerhans) cells in cutaneous infiltrates by mycosis fungoides. IgE deposition has not been observed in CD23-positive B cells.

The observation is of interest because it may explain, in part, the altered histopathologic reaction (eg, eosinophilia) in tissues involved by HD. However, the mechanism of CD23 expression may be more complicated than that described in this report.

(1) Expression of CD23 can be detected in 0% to 40% of patients with HD. If deposition of IgE is closely related to CD23 expression, one would expect a similar incidence or a similar expression pattern between CD23 and IgE in H-RS cells. The incidence of IgE (78.5%) in Samoszuk’s study is considered to be higher than that of CD23 expression reported by others. The discrepancy may be explained by variation in tissue samples or modulation or internalization of CD23/IgE complexes. However, double staining to correlate the expression of CD23 and IgE should clarify the role of CD23 in trapping IgE in H-RS cells.

(2) Expression of CD23 can be observed not only in B cells and eosinophils, but also in many other types of cells, such as monocytes, histiocytes, dendritic cells, and basophils. Deletion of the amino terminus abolishes activity.

The mechanism of expression of CD23 by H-RS cells is probably related to the CD23 (an IgE Fc receptor) associated with Hodgkin’s Reed-Sternberg (H-RS) cells and then internalized. In fact, a similar phenomenon has been observed in dendritic (Langerhans) cells in cutaneous infiltrates by mycosis fungoides. IgE deposition has not been observed in CD23-positive B cells.

REFERENCES

CORRESPONDENCE


RESPONSE

The letter by Dr Hsu regarding my recent report about IgE deposits in Hodgkin's disease (HD) with eosinophilia 1 raises important and valid points that warrant some additional discussion. In particular, the very recent description of IgE deposition in CD23-positive dendritic cells in a subset of mycosis fungoides tumors2 may actually provide further support for my hypothesis that IgE deposition is related to tumor eosinophilia in HD tumors, because some patients with mycosis fungoides and cutaneous T-cell lymphomas also have extensive eosinophilia in their tumors and peripheral blood.3,4 However, at this time, a specific correlation between IgE deposits and eosinophilia in cutaneous T-cell lymphomas has not been established.

The apparent discrepancy between CD23 expression in HD5-7 and IgE deposition has a number of possible explanations in addition to those noted in Dr Hsu's letter. Both IgE and CD23 are labile antigens, and CD23 is readily shed from the membrane of labile antigens, and CD23 is readily shed from the membrane of

REFERENCES


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IgE in Reed-Sternberg cells [letter; comment]

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