

THYMUS, IMMUNITY AND AUTOIMMUNITY*

E. J. Yunis, O. Stutman and R. A. Good
*Departments of Laboratory Medicine and Pathology
University of Minnesota Medical School
Minneapolis, Minn. 55455*

The thymus is essential for the establishment and maintenance of immunological competence, and it has been suggested that it influences neuromuscular transmission.¹ In this paper we will summarize the immunological functions of the thymus and the possible role of functional deficiency of thymus in the production of autoantibodies.

THE THYMUS AND THE IMMUNOLOGICALLY COMPETENT CELL

The thymic influence on peripheral lymphoid tissue is demonstrated by the effect of thymectomy. Neonatal thymectomy results in a marked deficiency of lymphocytes in the paracortical areas of the lymph nodes and the periarteriolar regions of the spleen. These regions are termed "thymus dependent" areas of the peripheral lymphoid tissue.² Lymphocytes in lymphatics, blood, thoracic duct lymph and the recirculating population within the peripheral lymphoid tissues represent the main pool of lymphocytes that develop under thymic influence.³ Neonatally thymectomized mice develop lymphocytopenia, which becomes more pronounced several weeks following thymectomy and is associated with a wasting syndrome.^{4,5} Mice that do not develop wasting disease following neonatal thymectomy may not show lymphocytopenia for as long as five months. On the other hand, neonatally thymectomized mice of the "autoimmune susceptible strains" (NZB, A_u, A/J, C57BL/Ks)/show moderate lymphopenia, large lymph nodes containing increased numbers of plasma cells, and have hyperactive germinal centers and many plasma cells in spleen.⁵

Cellular Immune System of Neonatally Thymectomized Mice

Neonatally thymectomized mice not only show quantitative decrease of lymphocytes but also functional deficiencies, as revealed by deficient ability of suspensions of cells containing lymphocytes to produce graft-versus-host reactions;⁶ deficient ability to exercise a normal allograft rejection,⁷⁻⁹ and inability to produce delayed hypersensitivity reactions.¹⁰ In addition, their peripheral blood leukocytes transform poorly or not at all when stimulated with PHA or with allogeneic leukocytes.¹¹⁻¹³

Humoral Immune Responses of Neonatally Thymectomized Mice

In neonatally thymectomized mice antibody responses against the following antigens are impaired: sheep erythrocytes, salmonella typhi O and Vi antigens, influenza A virus, T₂ coliphage, and bovine serum albumin. By contrast, re-

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