

Abstract (600 word limits)

Title: Autoimmune Haemolytic Anaemia In Mucoepidermoid Carcinoma Of The Thymus

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Mucoepidermoid carcinoma (MEC) of the thymus is an exceedingly rare type of cancer and account for only 2% of thymic carcinoma.^[1,2] The coexistence of a thymic cancer and autoimmune haemolytic anaemia (AIHA) is very rare with only few cases published in the literature. To our best knowledge this is the first case published in literature of mucoepidermoid thymic cancer that presented as autoimmune haemolytic anaemia. We report a case of 67 years old man with a background of alopecia totalis who presented with fatigue, pallor and jaundice. Blood tests showed a picture of autoimmune haemolytic anaemia and further imaging showed anterior mediastinal mass.

The patient underwent thymectomy and the final pathologic diagnosis was low grade thymic mucoepidermoid carcinoma. In consequent follow up appointments there were no further haemolysis and no recurrence of the cancer. After thymectomy his hair started to re-grow again which indicate a strong connection between thymic cancer and autoimmune related disorders like alopecia totalis and AIHA.

There is a strong correlation between autoimmunity and thymic cancer. Patients with autoimmune conditions develop neoplastic disease. In addition, malignancies are associated with autoimmune syndromes. Abnormalities in the thymic epithelial cells and the thymic stromal microenvironment can lead to autoimmune diseases.^[3] Because it is site of T-cell maturation and can form autoreactive T-cell clones that attacks different organs and causing autoimmune disease.^[4] This correlation is so evident in this case report by the improvement of AIHA and alopecia totalis after the surgical resection of the thymic cancer.

Biography (200 word limit)

I graduated from the medical school with first class honorary degree and I got many prizes for elite medical graduates. My passion towards immunology is deep rooted and persistent one. To be an immunologist is my life dream and I can't wait for the opportunity to make it true. Currently I am working at the NHS at core medical training level and continuing my professional development.

References (With Hyperlink)

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3. Fletcher AL, Calder A, Hince MN, Boyd RL, Chidgey AP: [The contribution of thymic stromal abnormalities to autoimmune disease](#). Crit Rev Immunol 2011;31:171-187.
4. Muller-Hermelink HK, Marx A: Thymoma. Curr Opin Oncol 2000;12:426- 433. ExternalResources [Pubmed/Medline\(NLM\)](#), [CrossRef \(DOI\)](#)

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