C17. ANAEMIC SYNDROME IN THYROID DISEASES.

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Purpose of the study: we leave studied the incidence of the anaemic syndrome in thyroid diseases, and also established different etiologies of anaemias.

Patient and method: we leave studied 24 patients, that ewew investigated in the department of Haemstologcal Diagnosis of the National Transfusion Haematology Institute during one year (July 2013 – July 2014), after having been investigated in different Endocrinology clinics for various thyroid diseases. In these patients, we have followed: the levels of haemoglobin and packed volume, the mean corpuscular volume (MCV), the aspect of the peripheral blood smear, serum iron and vitamin B12 (cyanocobalamin), Coombs test.

Results: Patients. Aged between 29 and 82 were mostly females (only 2 male patients!). Half of the cases werw alredy diagnosed as chronic autoimmune thyroiditis, having ... levels of antithyreoperoxidase; the other cases werw: hypothyroidism, hyperthyroidism, Basedow disease, toxic goitre, a.s.o. Thyroid diseases preceded with one to thirty years the onset of anaemia. A part of the patients were already under L-thyroxine therapy when joining our department.

Anaemia was sleightin most cases (Hgb levels over 10 g/dl in19 patients), average in 3 cases (Hgb between 8-9 g/dl) and severe only in 2 cases anaemia was macrocytic (MCV between 95-125 fL), with a suggestive periplural blood film (macrocytosis, poikilocytosis, polichromatophilia, sometimes hypersegmentated neutrophils); 14 cases had low levels of seric cyanocobalamin / between 83-161 pg/mL); we mention a few cases with a suggestive smear but with normal levels of cyanocobalamin, in which we decided surveying these levels every 2 years.

As additional haematological .. we mention: iron deficiency (6 cases), myelodisplastic changes (2 cases), autoimmune haemolytic anaemia (2 cases); 2 cases associated leucopenia and 3 cases thrombocytopenia. Associated diseases: 2 cases of coeliac disease, 2 of hereditary spherocytosis and 1 case of psoriasis.

Conclusions:

- 1. The association of thyroid diseases and anaemia is much more frequent in females and affects all ages
- 2. thyroid disease usually precedes the onset of anaemia
- 3. Most frequently anaemia is macrocyticmegaloblastic and consists in cyanocobalamia deficiency
- 4. Patients with thyroid diseases need periodical surveying of cyanocobalamin levels.