

C13. STEPS IN COMPATIBLE RED CELLS SELECTION IN HAEMOLYTIC AUTOIMMUN ANAEMIA.

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Background: The Autoimmune Haemolytic Anaemia (AIHA) is an acute anaemia produced by the action of auto blood red cells antibodies. In acute hemolysis, only survival therapy is blood red cells transfusion. Because the large specificities of red cells autoantibodies (f. ex. a e, a I) it is very difficult the selection of compatible blood units.

Aim: Showing the steps, methods and techniques necessary for the selection of compatible red blood cells in an AIHA case.

Materials, methods: Reagents and techniques for in the liquid phase and in column haemagglutination, at +40C, +220C, 370C, in saline, with enzymes (bromeline, ficine) and with antiglobuline serum.

Case, report, results, conclusions: 84 years old patient with acute anaemia (Hb 6,5%) All immunoserological tests showed polyagglutination, DAT positive. We performed all the steps recommended in AIHA, on patient's red cells and on his serum, for the correct phenotyping and for the establishment the type of AIHA. Finally the Patient 0 blood group, ccdeek RhK phenotype, DAT type C3d, cold agglutininus, titre 1/1024. For the red blood cells, the serum was prewarmed and diluted at 1/4 in saline.

The appropriate izo group and RhK units were selected by IAT and saline technique, with special pretransfusion recommendations for the hospital physicians.