

ABSTRACT

Title of Diploma Thesis: Production and use of transfusion products in the District Hospital Trutnov.

Aim of the work: The aim was to evaluate the production of transfusion products (TP) in the period 2014–2019 at the Transfusion and Hematology Department (THO) in the District Hospital Trutnov and their use for hemotherapy by individual medical disciplines. Furthermore, to compare the production of TP within the Czech Republic together with selected European countries. The incidence of post-transfusion reactions and other adverse events during the reporting period is also included.

Material and methods: The methodological part describes the standard procedures of pre-transfusion examination using the column agglutination method from the company Grifols, S.A., laboratory examination of donors and transfusion products manufactured at the Transfusion Department Trutnov.

Conclusion: Despite all the recommendations and efforts to reduce the use of transfusion products, this condition has not been proven both in our department, within the Czech Republic and in Europe. This work recommends deleucotization of transfusion products for the national and European part, unification of procedures for transfusion in a given disease, mandatory introduction of NAT testing to minimize the risk of transmission blood-borne infections and thus shorten the diagnostic window.

Key words: transfusion products, transfusion, erythrocytes, platelets, plasma.