



## Principal of Gamma Irradiation on Blood Components

Soheila Refahi\*, Shahnaz Hosseinzadeh

Ardabil University of Medical Sciences

Transfusion-associated graft-versus-host disease (TA-GVHD) is a rare, but usually fatal, complication of transfusion. (TA-GVHD) can be prevented by treating cellular blood products with gamma irradiation. Cellular blood components that require irradiation to reduce the risk of graft-versus-host disease include red blood cells, platelets and granulocytes. Irradiated blood components could be used for transfusion in patients.

In this review study, we explain principal of Gamma irradiation and it's procedural aspects.