Background: Blood group antigens, which are the major allo antigens in humans, are present on the surface of red blood cells and various epithelial cells. As the majority of human cancers are derived from epithelial cells. Studies of associations between various cancers and the ABO blood groups have shown elevated relative risks for some categories of disease. To date, no report has evaluated the relationship between the ABO blood groups and the skin cancers.

Methods: To investigate this association, we conducted a retrospective study of malignant tumors diagnosed in Ahvaz. All tumors were histologically confirmed. Blood information was obtained for 98 individuals with malignant skin tumors, and the distribution of ABO and Rh blood type for cases was compared with that of 419 healthy blood donors from the same geographic area.

Results: Although patients with blood group A were higher, group O lower than in controls, the differences were not significant. The distribution of Rh factor, blood group B and AB among cases and controls also did not differ significantly. We found a significant relationship between age and skin cancer ($p=1.000$). Old patients had 832.1 times higher risk for skin cancer.

Conclusions: Further studies in larger series on blood group antigens are needed to elucidate the relationship between these antigens and skin cancer.