It is known that the plaque on tooth, if not cleaned, plays a great role on cavity occurrence. Another important factor in cavity occurrence is saliva flow. According to the studies carried out so far, it is reported that chewing gum after snack food and meals both stimulates the saliva flow and prevents the decreasing on plaque pH. Saliva plays an important role on removing fermentable food particles and solutions in mouth. Also, it has a great effect on controlling plaque pH. This study was carried out in 20 cases, at the age of 8-10 years, without active caries. The cases were divided into two groups and given certain food. One group chewed gum with sugar and another group without sugar, then saliva and plaque samples were taken. The values obtained were statistically analysed, H has been determined that chewing gum with or without glucose has no effect on immunoglobulins. IgA was decreased by stimulation, TgG and IgM were increased.

Key Words: Saliva, Gums, Plaque pH