[A study on the zero-stress state of rabbit artery after intragastric administration of ethanol].

To investigate the effect of ethanol on the zero-stress state of rabbit artery, a rabbit animal model of blood ethanol concentration gradient was established by intragastric administration of ethanol (IGAE). The blood ethanol concentration of each group was measured. The zero-stress state characterized by opening angle was observed by an image processing system. The results revealed that the blood ethanol concentration of each group increased after IGAE. The magnitude of the blood ethanol concentration came to the peak at 1.5-2 h after IGAE. The opening angle decreased with the increase of the magnitude of blood ethanol concentration and the opening angle in each group. These findings suggest that the zero-stress state of the rabbit artery has close relationship with ethanol concentration.