The aim of this diploma thesis is to evaluate spatial orientation in the patients after vestibular schwannoma surgery. In the theoretical part, there are summarized the facts about vestibular system; there is described the clinical picture of unilateral vestibular dysfunction and the field of vestibular schwannoma and spatial orientation in general. In the practical part, we performed the investigation of the spatial orientation using the Blue Velvet Arena System and posturography using the platform Balance Master® System. The purpose of the practical part was to find out, whether unilateral vestibular dysfunction in patients after vestibular schwannoma surgery has the impact on spatial orientation and to what extent is the postural stability influenced in patients identified for surgery and in patients after vestibular schwannoma surgery.