

## **HISTORY OF THE DEVELOPMENT OF PROSTHESES TO THE PRESENT DAY**

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Prosthetics is the replacement of lost body parts with substitutes – prostheses. Prosthetics is an important stage in the rehabilitation of a person suffering from a musculoskeletal system disease or who has lost a limb. Consider the history of the emergence and development of prosthetics. If we look at a mummy from the New Kingdom, we can understand that the ancient Egyptians were familiar with prosthetics. The first find is a wooden finger. Think of the pirates. In due course, they were masters in prosthetics. Their famous pirate hooks and wooden feet were the earliest forms of prostheses. Closer to modern times, more advanced prostheses began to appear, well imitating the lost body part or moving by means of built-in mechanisms. There are many types of prostheses: 1) Endoprostheses – implants for vessels, joints; 2) Exoprostheses – attached to the outside (external imitators – breast); 3) Ectoprostheses – cosmetic prostheses that restore the appearance of the lost body part. This includes prosthetic ears, nose, eyes, teeth and others. Dental prosthetics are the most popular type. These dentures completely replace the teeth lost for any reason. 4) Therapeutic prosthetics are orthopedic products: braces, carpets, canes and others. We would like to point out such type of prosthesis as hearing aids. We believe that they play a special role in our world. People of very old age have hearing loss and it can be hearing loss completely. Other developments, such as memory prostheses and organ culture, are worth mentioning. In 2011, successful experiments were carried out on implanting prosthetic memory into rats. In the future, this technology is planned for use in humans suffering from stroke or dementia. So far, organs such as blood vessels, bladder, etc. have been grown. Successful experiments have already been carried out proving that it is possible for the body to accept artificial organs. Thus, research and development in this field prove the importance and necessity of prosthetics.