



## Overview of Prosthetics

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### Abstract

Assistive technology used for functional independence and to overcome barriers. Assistive devices consists TENS unit, residual limb covers, laser system, prosthesis. It is used to restore function in patient with complete or partial loss of limb. Patient face complications such as phantom limb pain, residual limb, malfunction of prosthesis and stump pain. There are many components of prosthesis [3] Prosthetic rehabilitation is a best treatment to provide normal appearance and to provide function of missing part.

**Keywords:** Phantom limb, Residual limb

### Introduction

Assistive technology is a general term which includes technologies, services, devices, apparatus, equipment used in patients who have impairment and by using these patients will gain functional independence and to overcome barriers, full participation in society and carrying out activities easily and safely [1]. Assistive technologies can be used to reduce pain in people with amputation. The assistive devices such as TENS unit, residual limb covers, laser system, prosthesis etc. [2]. Prosthetic technologies used to restore function in patient with complete or partial loss of limb. For the patient with amputation prosthesis has become important part of their life and it improves the quality of life but sometimes it may developed some complications [3]. History of prosthesis: prosthesis is functionally and cosmetically pleasing and effective and its give sense of wholeness. The first prosthesis which was use in women for a big toe [4] in 16th century dr. Ambroise pare introduced prosthesis for hand and the leg with locking knee joint. It wasn't better, but life was easier for the patient wearing them [4].

### Body

Prosthesis is used in patient with disabilities caused by amputation conditions in which limb loss exist due to cancer, infec-

tion, vascular complication of diseases and trauma. Development of prosthesis depends upon the factor like texture, hygiene, color matching, weight, durability and biocompatibility [5] there are various advantages of prosthesis like activities of daily living, and improve the quality of life, performance in hygiene. It is used to replace a body part externally or internally [3,7]. After usage of prosthesis many people have faced complications such as phantom limb pain, residual limb, malfunction of prosthesis and stump pain. Components of prosthesis consist of socket, body of prosthesis, suspension system, control system and terminal device [3] prosthetic rehabilitation is a best treatment to provide normal appearance and to provide function of missing part. Pre prosthetic exercises should be done to maintain ROM, to improve muscle strength, preparation for residual limb as it will help prevent the occurrence of complications and deviations [5,6].

### Conclusion

Prosthetics are easily available and accessible. Great outcome could be achieved by using prosthetics as it helps the patient to gain independence. To resolve the challenges of daily living, the prosthetic provider needs to work closely with patient and therapist. Prosthetics are used for better life but sometimes it develops

the complication, but proper care and rehabilitation program is useful to improve quality of life.

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