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**Prosthetic rehabilitation of partially amputee hand with customized silicone prosthesis: A case report**

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**ABSTRACT:**

A prosthetic restoration of facial defects is an ancient art. Nowadays, maxillofacial prosthodontics has been tremendously integrated with oral oncology, trauma, and deformity. It has not only limited to face but progressing toward make-over and also toward rehabilitating other parts of body like a hand and a foot. The success of prosthesis has always been limited to the availability of material fulfilling the ideal requirements along with skill of the specialist concerned. Fabrication of prosthesis for a child is even more challenging considering the growth and psychology of a child. Silicone has been an integral part of maxillofacial prosthodontics armamentarium for many years. This case report is an attempt to rehabilitate congenitally missing hand of a child, with silicone as a material of choice. A prosthetic restoration of facial defects is an ancient art. Nowadays, maxillofacial prosthodontics has been tremendously integrated with oral oncology, trauma, and deformity. It has not only limited to face but progressing toward make-over and also toward rehabilitating other parts of body like a hand and a foot. The success of prosthesis has always been limited to the availability of material fulfilling the ideal requirements along with skill of the specialist concerned. Fabrication of prosthesis for a child is even more challenging considering the growth and psychology of a child. Silicone has been an integral part of maxillofacial prosthodontics


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Reconstructive surgery has limited role for rehabilitation of lost body parts. Surgical reconstruction in patients is not possible when it is contraindicated, unavailable, unsuccessful or unaffordable; the prosthetic rehabilitation becomes an alternative in order to improve the psychological status of an individual. A color matched and well fitted prosthesis eliminates the constant reminder of the disability; make a patient feel a capable person and not a handicap. It should be provided as soon as possible to raise the spirits and ease the mind of the afflicted. <sup>2</sup>

In this case report, the custom silicone hand prosthesis was fabricated with stainless steel wires to provide stiffness and tolerate weight of silicone prosthesis. Basic training, care and maintenance instructions for the prosthesis were given to the patient. The silicone hand prosthesis was able to restore the appearance of the lost digits and provide some passive function.

**KEYWORDS:** Silicone, Prosthetic hand, Partial hand amputation.

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