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Utilization of 3D printer into development of affordable and functional artificial limb

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Three-dimensional (3D) printing has become one of most influential concept in recent years as it refers to the technology which converts a virtual model to a tangible object. The advancement in 3D printing technologies on medical sector is illustrated into building affordable and functional artificial limbs. However, in Bangladesh use of three-dimensional printer is very limited and used only in research purposes. This paper titled 'Utilization of 3D printer into development of affordable and functional artificial limb' aims to examine the present situation of people with disabilities with prosthetic based treatment and the opportunities for contemporary technology to suppress these problems. The conventional process of producing artificial limbs or prosthesis, especially the lower limbs are most expensive and the treatment procedure is time consuming. Besides traditional replacement system for the upper limbs is not available till date. On the contrary, three-dimensional printers can help to manufacture these artificial limbs at an reasonable price. These limbs will come with more accuracy, durability and flexibility, which will help many disable people to lead a better life.

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