The place, importance and use of 3D printers in health

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It is accepted that the 4th Industrial Revolution started with the concept of "Industry 4.0" in 2013. In addition to being the age of information, this revolution in the industry has brought people in many different areas in the virtual environment and has accelerated the development in the World. From such an alteration, the health field has also been affected and has shown great changes that will bring many benefits to humanity. Thereby, a rapid and permanent change has begun in health by the meeting of engineering and technology. In this sense, especially 3D printers have made a rapid entry into the healthcare sector and have enabled the production of useful products over time. 3D printers are especially evolving in many areas such as elimination of hard tissue defects and also, production of tissue, organs, etc. Moreover, today, it is also possible to produce education models with 3D printing before surgery, also, in complex indications, 3D modeling to show the diseased tissues and adjacent anatomical formations with different color codes to the physician, elimination of hard tissue defects with 3D metal printers and production of hard tissue defects and also, production of tissue, organs, etc. Moreover, today, it is also possible to produce education models in educational models are some of the capabilities of the Center. We have been serving to the healthcare sector with more than 100 cases and continue to do so. Custom designed and produced 3D models enable ergonomic surgery application, preoperative inspection of the patient and also, operate the surgery beforehand. In this presentation, I will try to inform the physicians and health employee, with sample case studies in our Center about the place, importance and the use of 3D printers and also the developments in this area.