

We performed a series of experiments to evaluate the physical properties of all the included components and their interactions with one another for a typical clinical magnetic resonance imaging (MRI) scanner. The experiments consisted of using NMR measurements to obtain the technical specifications of each of these components. We also undertook a live demonstration and imaging experiments that were observed to verify our measurements. The paper presents the results of our analysis [26].

3D Printing and Medical Tourism in the context of Medicine Soraya S. Mohammed Khader Rami Al Tassabi Mohammed Herawi Kamal Adli Mustafa Rasul Mohamed & Badr Babiker Published online: 19 December 2021

Introduction. In the past decade, 3D printing is transforming the way medicine is practiced. It has revolutionized the way medicine is delivered and, in the process, the way it is taught. More importantly, it has transformed the way medicine is practiced in developing countries. Without doubt, 3D printing is a technology that has the potential to revolutionize healthcare delivery in these regions. However, this technology is not being used optimally in these settings and there is currently no meaningful analysis of the current user experience. This study aims to quantify the user experience of using 3D printing technology for developing healthcare services and identify factors that affect a successful or unsuccessful service delivery. The results of this study will provide insight that could be applied to ensure successful implementation of 3D printing in the developing world.

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4D 4D-DUS imaging Xiaoyu Ren Xiaoyu Wang Qingyang Shen Published online: 20 December 2021

DUS stands for Doppler Ultrasound. DUS data can be acquired by DUS imaging and computed tomography (CT) imaging or digital subtraction angiography (DSA) imaging. The goal of 4D-DUS imaging is to obtain four dimensional images of blood flow. This article introduces the basic theory and the approaches used in 4D-DUS imaging. Also, 4D-DUS imaging examples are discussed



Clinical Applications Rar

in the field of spine surgery, the three-dimensional (3d) visualization of a segmented spine model is essential for the diagnosis and surgical planning. computer-aided surgical planning (casp) for spinal surgery has been developing rapidly over the past two decades. nowadays, casp has been integrated into the surgical workflow and has become a major factor in the success of spine surgery. the conventional casp tools for the spinal surgery include the use of 2d axial images and ct and mri for image registration. however, for surgeons, due to the lack of 3d information, the intraoperative decision making is based on 2d images, which results in potential mistakes in the operation plan and the actual outcome. recently, the development of 3d imaging techniques including ct and mri is helping surgeons to provide better surgical outcomes. a typical approach for the spinal surgery is based on preoperative planning by using the 3d image and intraoperative real-time navigation. the current model for the spine surgical planning and navigation systems was developed by using ct and mri images. in the recent years, the real-time 3d image techniques have been gradually adopted to assist surgeons in the surgical planning and navigation for the spine surgery. the potential clinical applications of these real-time 3d techniques are summarized as follows. first, they provide continuous feedback for the surgeons during the surgical procedures. second, they can help surgeons to overcome the limitations of conventional imaging techniques. third, they can assist surgeons in the positioning and registration of the surgical tools. fourth, they can help surgeons to overcome the limitations of conventional planning tools (i.e., ct and mri). in the future, the real-time 3d techniques will be integrated into the surgical workflow and will help surgeons to provide better surgical outcomes. 5ec8ef588b

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