Title: 3D Printing – Improving Patient Outcomes

Keywords: 3D printing, Anatomical Models, DICOM segmentation, presurgical planning, patient communication

I. Abstract Body (up to 250 words)

3D printing has proven it's potential in high value applications, being able to tackle complex geometries and deliver customized or individualized solutions. This lends well to its application in the medical and healthcare space where no two patients are the same and a more patient-specific planning and treatment is required. 3D reconstruction of digital models from CT, CBCT, MRI scans coupled with virtual surgical planning can be used to produce patient-specific anatomical models, surgical guides, medical devices and implants. This presentation aims to highlight key applications of 3D printing in the healthcare industry and discuss the challenges faced by hospitals and medical institutes that hinder the fast adoption of this technology.

II. Image:





III. Biography

Miles Podmore graduated from Limerick University Ireland with a degree in Electronic Engineering and has over 25 years of experience in the IT and Healthcare industry. In 1995, he founded Eye 2 Eye Communications Pte Ltd in Singapore and has set up regional offices in Malaysia, Indonesia, Philippines and Vietnam. Armed with experience in 3D printing and DICOM, he has launched his latest venture, Medairum Pte Ltd, which provides services for segmenting DICOM images to 3D printing models. Medairum also provides Augmented Reality for medical education purposes.

IV. Presenting author details



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