

The 6th Joint Conference Ramathibodi - Osaka University

~ Cutting Edge Innovation on COVID-19 and Beyond ~

29th - 30th November 2021

Abstract Sheet

Lecture Title	Joint clinical trial in customized surgical guide and bone plate in corrective osteotomy for the upper extremity
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Abstract **[English]**

Three-dimensional (3D) printing technology has increasing in popularity and achieving promising results in various medical fields in recent years including orthopedic surgery. This new technology allows the orthopedist to understand better in complex fractures or deformities for preoperative planning, facilitate osteotomy precisely, assist to design customized implant or prosthesis. Corrective osteotomy for upper extremity malunion is complex procedure and technically demanding. This promising technology allows precise pre-operative evaluation and correction of the deformity using the normal anatomy of the contralateral side as the template. This presentation summarized the overview of traditional osteotomy planning and technique and how 3D printing can improve the surgical result with case demonstration and the progression of the clinical collaboration with Osaka University for customized surgical guide and bone plate with 3D printing technology.