



**Japan Association  
of Microscopic Dentistry**

# **The 20th Annual Meeting & Scientific Session Lunchtime Seminar**

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## Challenges in the Digital Workflow : Tooth preparation and design of the Veneer Restorations

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Key word

Minimally-Invasive, Digital Dentistry and Micro Precision

In modern restorative dentistry when the digital technology and adhesive dentistry have developed, it is easy to assume that in the nearest future, the main focus of this field will be at MI esthetics combined with Digital dentistry. In addition, the use of microscope has allowed prosthodontists to obtain more precise and predictable outcomes in both traditional and digital dentistry. The future prospective of minimally invasive dentistry adapting digital dentistry would require the following clinical discussions for the tooth preparation of veneer restorations:

1. What will be the appropriate designed and location of the marginal finishing line for the marginal morphology to avoid any of the STL data edge loss?
2. How we can manage the precise fitting of internal interface between the tooth and the veneer restoration by using digital technology.
3. The IOS is not accurate to scan the tooth when its inter- proximal area is not wide enough. The presenter wishes to propose his guideline for the case of applying IOS for the closed contacted teeth arch. And when contacts are open, the minimum distance needed for the inter-proximal space to apply an IOS.

The presenter wishes to explain all of the above through his clinical cases and own researches, also going to live demonstration of the tooth preparation using Carl Zeiss Meditec EXTARO 300 microscope.