

## Effect of Microwave on Resin Polymerization in Circumference of Metal Wires of Denture

Tetsuo YAMAMORI, Koji KOBAYASHI, Itsuko ANDO, Kenichi ISHIBASHI,  
Yoshihiro MORIWAKI<sup>1</sup>, Kimihito NAKAYAMA, and Kazuo SEINO

The microwave polymerization brings about good adaptation with a short polymerization time. But it is apprehended that polymerization defects may occur by the spark among the metal elements of the removable partial dentures. This paper describes the effects of the SPAD system on polymerization in the circumference of metal wires. The result showed that slight polymerization defects occurred in the circumference of metal wires, when the space between the wires were small in the SPAD system.

From the above, it was suggested that the distance between metal wires should be widened to over 1mm, when the SPAD system was used.

Key words : SPAD system, polymerization defect, microwave, metal wire