

## Die thermoplastische 3-D-Obturation

*Clifford J. Ruddle, DDS/Santa Barbara, USA*

*Endodontie Journal 4/2010*

### Literatur:

1. Ruddle CJ: Advanced Endodontics, Santa Barbara, CA: [www.endoruddle.com](http://www.endoruddle.com), 2009.
2. Ruddle CJ: The protaper technique, *Endodontic Topics* 10:187-190, 2005.
3. Ruddle CJ: Endodontic disinfection: tsunami irrigation, *Endodontic Practice* 11:1, pp. 7-15, 2008.
4. Schilder H: Filling root canals in three dimensions, *Dent Clin North Am* pp. 723-744, November 1967.
5. Ruddle CJ: *Ruddle on Shape•Clean•Pack*, DVD, Studio 2050, producer, Santa Barbara, California: Advanced Endodontics, 2008.
6. Marlin J, Schilder H: Physical properties of gutta percha when subjected to heat and vertical condensation, *Oral Surg Oral Med Oral Pathol* 36:3, pp. 872-879, December 1973.
7. Gurney BF, Best EJ, Gervasio G: Physical measurements on gutta-percha, *Oral Surg Oral Med Oral Pathol* 32:3, pp. 260-270, August 1971.
8. Goodman A, Schilder H, Aldrich W: The thermomechanical properties of gutta-percha. II. The history and molecular chemistry of gutta-percha, *Oral Surg Oral Med Oral Pathol* 37:6, pp. 954-961, June 1974.
9. Schilder H, Goodman A, Aldrich W: The thermomechanical properties of gutta-percha. III. Determination of phase transition temperatures for gutta-percha, *Oral Surg Oral Med Oral Pathol* 38:1, pp. 109-114, July 1974.
10. Goodman A, Schilder H, Aldrich W: The thermomechanical properties of gutta-percha. IV. A thermal profile of the warm gutta-percha packing procedure, *Oral Surg Oral Med Oral Pathol* 51:5, pp. 544-551, May 1981.
11. Ruddle CJ: Three-dimensional obturation of the root canal system, *Dentistry Today* 11:3, pp. 28-33, 39, April 1992.
12. Ruddle CJ: Ch. 9, Three-dimensional obturation: the rationale and application of warm gutta percha with vertical condensation. In *Pathways of the Pulp*, 6th ed., Cohen S, Burns RC, eds., St. Louis: Mosby Yearbook Co., 1994.
13. Southard DW: Immediate core buildup of endodontically treated teeth: the rest of the seal, *Pract Periodont Aesthet Dent* 11:4, pp. 519-526, 1999.