

## Clinical Application of Ion Radiofrequency Deep Regional Hyperthermia in Senile Knee Osteoarthritis

Yanhui Tang<sup>1</sup>, Junhua Wang<sup>1</sup>, Yalin He<sup>1</sup>, Jie Liu<sup>1</sup>

(1) Hyperthermia Center, Clifford University of Guangzhou University of Chinese Medicine, Guangzhou, China 511495

### ***Objective***

To investigate the treatment efficacy of deep hyperthermia for senile knee osteoarthritis.

### ***Methods***

60 cases of senile knee osteoarthritis patients were randomly divided into treatment group and control group. Treatment group: received radiofrequency deep hyperthermia treatment for 30 times. Control group: routinely received oral Non-Steroidal Anti-Inflammatory Drug -Ibuprofen capsules and Calcium Carbonate and Vitamin D3 for 30 days. Analgesic efficacy was observed, and joint function was evaluated.

### ***Results***

All patients treated were followed up for 3 months, the total effective rate of the treatment group was 96.7% and the control group, 70%, the total treatment efficacy of the treatment group was significantly higher than the control group, the difference was statistically significant( $P < 0.05$ ).

### ***Conclusions***

The radiofrequency deep regional hyperthermia is a simple, noninvasive, safe, non-toxic and effective treatment method for treating senile knee osteoarthritis, it can improve the life quality for the elderly patients and is worthy further promotion.

### ***Keywords***

Radiofrequency deep hyperthermia; Elderly; Knee osteoarthritis