Medicine

Advanced Edit

Cementless total hip arthroplasty (THA) can be performed using a large variety of femoral components with a large variety of designs have been developed. The Anatomic Fiber Metal plus stem (Zimmer) is one of the anatomically designed femoral components that can be inserted without cement. The concept of this stem was designed to achieve stable fixation through metaphyseal fit and fill. Its configuration matches that of a normal femur, and circumferential fiber mesh coating on the proximal one-third is coated with fiber mesh. The neck of the stem has an anteversion of twelve 12 degrees. The press-fit and outcomes of THA performed using a press-fit femoral this stem were reported to be good for the primary osteoarthritis in selected Caucasian patients. However, there were a few reports available on the outcomes of THA using this stem this procedure in Japanese patients. Since the majority of the Japanese patients with hip osteoarthritis have dysplastic hips in Japanese patients. Therefore, the outcomes results of this procedure in Japanese patients might be different from those in Caucasian patients.

Therefore, we studied the outcomes of cementless total hip arthroplasty (THA) performed using the Anatomic Fiber Metal plus stem in Japanese patients and examined the possible effects of metaphyseal fit on the outcomes.