In total hip arthroplasty (THA), recent advances have led to the prevalent use of noncemented implants. However, in some patients (such as with osteoporotic bones), cemented techniques have shown an advantage.

**Review of cement-based techniques in THA**

- **Trends from international registries**
  - Excellent long-term survivorship
  - Recommended implant choice when treating femoral neck fractures with arthroplasty
  - Lowest revision rates in patients >75 years

- **Evidence-based outcomes**
  - High durability of implant
  - Improved survivorship
  - Clinically insignificant rate of fat embolism
  - Lower fracture risk
  - Low rate of postoperative complications

- **Health economics**
  - Cost effective
  - Greater quality of life

- **Technical procedure**
  - Simple and reliable
  - More surgeon control

Cement-based techniques are helpful in treating elderly patients with poor bone quality.