

Exeter®

Addressing femoral neck fractures

Hip Arthroplasty for femoral neck fracture

The AAOS guideline recommends the use of cemented stems for displaced femoral neck fracture in older adults.¹ This is a brief summary of the AAOS guideline and the AAOS AJRR registry data regarding femoral neck fracture treatment.

AAOS - Management of Hip Fracture in older adults¹

Recommendation of the use of cemented femoral stems

Cemented femoral stems

In patients undergoing arthroplasty for femoral neck fractures, the use of cemented femoral stems is recommended.

“Strength of evidence: Strong

Strength of recommendation: Strong ★★★★★”

Benefits/harms of implementation

“Patients who undergo cemented femoral stems may benefit from **lower periprosthetic fracture risk** and **improved short time outcomes** while being at risk for increased surgical time and blood loss.”¹

Outcome importance

“Patients undergoing cemented femoral stems will have the **benefits of higher short-term patient reported outcomes** and **lower periprosthetic fracture risk**, but with increased surgical time and blood loss during the operation. Postoperative periprosthetic fracture is a serious complication often requiring additional surgery with attendant risks. Surgeon’s familiarity with surgical technique may guide which implant they choose which contributes to the overall variability.”¹

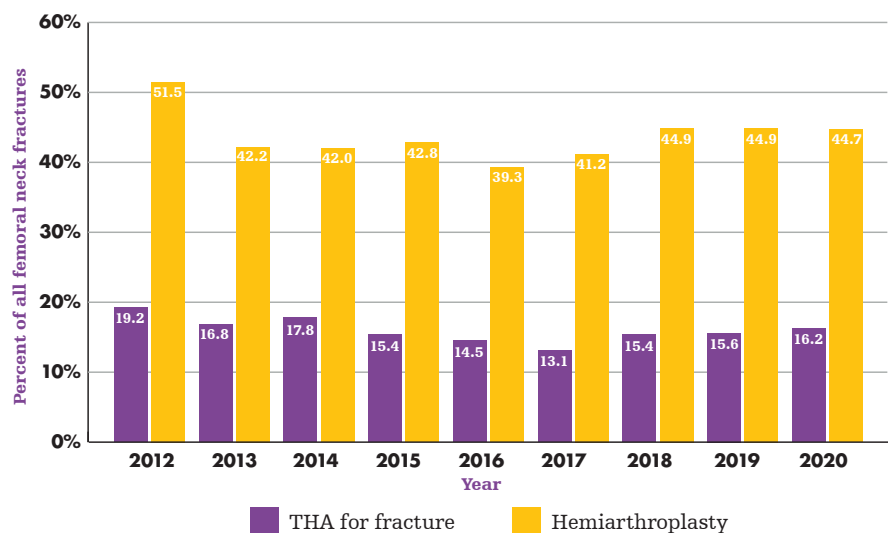
Older Adults: age 55 years and older²

AAOS made updates on December 15th, 2021 for their Clinical Practice Guidelines for Management of Hip Fractures in Older Adults (originally released in 2014). The updated guideline cites **strong** evidence (updated from moderate) supporting the use of cemented femoral stems for patients undergoing arthroplasty for femoral neck fractures, as they may benefit from reduced periprosthetic fracture risk and improved short time outcomes. However, the CPG does acknowledge that these data show a risk for increased surgical time and blood loss.²

The update included a change in the definition of “Older Adults” **to age 55 years and older** (previously 65 years and older).

Cemented stem usage in the United States

AAOS AJRR 2021 reported that the mean age for hemiarthroplasty is **82.3 years** and THA for fracture is **72.3 years** in the U.S.³ and the usage of cemented stems for hemiarthroplasty was **44.7%** and **16.2%** for THA for fracture in 2020.³ With the updated recommendation by AAOS in 2021¹, the use of cemented stems for femoral neck fracture is likely to increase in the USA.



Cemented Fixation for Femoral Stems in Total Hip Arthroplasty and Hemiarthroplasty for Femoral Neck Fracture, 2012-2020 (N=32,356).³

References:

1. American Academy of Orthopaedic Surgeons – Clinical Practice Guideline for Management of Hip Fractures in Older Adults. December 3, 2021.
2. AAOS Updated Clinical Practice Guideline for Management of Hip Fractures in Older Adults. <https://www.aaos.org/aaos-home/newsroom/press-releases/aaos-updates-clinical-practiceguideline-for-management-of-hip-fractures-in-older-adults/>
3. AAOS American Joint Replacement Registry 2021 Annual Report.

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