

### Knee flexion contracture after TKA

Definition/Description

A flexion deformity of the knee is the inability to fully straighten the knee, also known as flexion contracture. Normal active range of motion (AROM) of the knee is 0° extension and 140° flexion. In people with a flexion deformity, AROM of one or both knees is reduced. It develops as a result of failure of knee flexors to lengthen in tandem with the bone, especially when there is inadequate physical therapy to provide active and passive mobilization of the affected joint.<sup>[11]</sup> They often require extensive rehabilitation.<sup>[21]</sup> In most cases, flexion deformities occur bilaterally.

# Knee flexion contracture incidence after TKA

Depending on Preop ROM Trauma sequellae Inflammatory disease Incipient Arthrofibrosis

#### Knee flexion contracture after TKA



Characteristics/Clinical Presentation Ant knee pain Walking distance down Q ceps force down Shortening of stride gait Flexed position of the knee throughout gait cycle

#### Knee flexion contracture after TKA

Surgical procedure for flexion contracture and recurvatum  ${{{{\rm{in}}}}}$  total knee arthroplasty

#### Abstract

A specific protocol for dealing with flexion contracture and recurvatum in total knee arthroplasty surgery was evaluated. In cases of flexion contracture, this protocol included choosing the larger femoral size when the femut was between sizes to make the flexion space smaller and to allow overesection of the tibia surface to correct the flexion contracture. In all cases, bone resection was done first, osteophytes were.



Knee flexion contracture incidence after TKA
Incidence 1 to 13 %
Male / female ration 2.5
preop FC = 12.3
Older age
Navigated TA > convent TKA
Oxford score 👃
patient statisfaction 🛛 🖊
Flexion contracture following primary total knee arthroplasty: risk factors and outcomes.
Goudie ST <sup>1</sup> , Deakin AH, Ahmad A, Maheshwari R, Picard F, 2011





















Knee flexion contracture after TKA		
	Pt WAM °1967 R Knee	
	2016 : TKA : usual rebab	
	2017 : progressive FC	
	2017 : intense rehab 2018 : unbanny with BOM limitation / gait issue	
	2018 : revision TKA suggested	
	2018 :Hertel release	









## Patiëntenpopulatie

14 "Hertel" releases June 2011 / november 2018 Mean FU : 48 m M/F: 5/9 Mean age at surgery: 61.7 Y





# conclusion

- > Flexion contracture is painfull because patella overload
- > Avoiding TKA removal and A desis hassle
- > Revision surgery is not required in case correct implant positioning
- > Try to exclude infection....
- > Posterior capsular release via median approach
- $\succ$  Rehabilitation requires dynamic bracing (Aelbrecht / Jakob post. bracing )
- > Patient may loose flexion but gains painless gait

