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## Appendix

a) A list of the approved revision procedural NCSP codes, which are currently used in Denmark:

KNFC20 Secondary insertion of both components of uncemented total prosthesis into hip joints  
 KNFC30 Secondary insertion of both components of the hybrid total prosthesis into the hip joint  
 KNFC40 Secondary insertion of both components of cemented total prosthesis into hip joints  
 KNFC29 Secondary insertion of uncemented total prosthesis in hip joint without specification  
 KNFC39 Secondary insertion of hybrid total prosthesis in the hip joint without specification  
 KNFC49 Secondary insertion of cemented total prosthesis in hip joint without specification  
 KNFC21 Secondary insertion of proximal component of uncemented total prosthesis in hip joint  
 KNFC31 Secondary insertion of proximal component of hybrid total prosthesis into hip joint  
 KNFC41 Secondary insertion of proximal component of cemented total prosthesis into hip joint  
 KNFC22 Secondary insertion of distal component of uncemented total prosthesis in hip joint  
 KNFC32 Secondary insertion of distal component of hybrid total prosthesis into hip joint  
 KNFC42 Secondary insertion of distal component of cemented total prosthesis into hip joint  
 KNFW59 Reoperation at superficial infection after surgery on the hip or thigh  
 KNFW69 Reoperation in deep infection after hip or thigh surgery  
 KNFU10 Removal of both components of total prosthesis in hip joint  
 KNFU11 Removal of proximal component of total prosthesis in hip joint  
 KNFU12 Removal of distal component of total prosthesis in hip joint  
 KNFU19 Removal of total prosthesis in hip joint without specification

b) A list of the diagnostic ICD-10 codes, which were applied for in the National Patient Registry data extraction to identify possible incorrectly coded dislocation cases:

DS33.3*	Dislocation of other and unspecified parts of lumbar spine and pelvis
DS70 – DS79*	Injuries to the hip and thigh
DT03.1 + DT03.3-DT03.9	Dislocations, sprains and strains involving multiple regions of lower limb(s)
DT09.2	Dislocation, sprain and strain of unspecified joint and ligament of trunk
DT12*-DT13*	Other injuries of lower limb, level unspecified
DT14.3	Dislocation, sprain and strain of unspecified body region
DT81.9	Unspecified complication of procedure
DT84.0* – DT85*	Complications of internal orthopaedic prosthetic devices, implants and grafts
DT88.9	Complication of surgical and medical care, unspecified
DT93*	Sequelae of injuries of lower limb
DT94*	Sequelae of injuries involving multiple and unspecified body regions
DT98.1-DT98.2	Sequelae of other and unspecified effects of external causes
DM15* – DM16* + DM19*	Polyarthrosis/Arthrosis of hip/Other arthrosis
DM24.3*	Pathological dislocation and subluxation of joint, not elsewhere classified
DM24.4A+B	Recurrent dislocation and subluxation of joint
DM24.9	Joint derangement, unspecified
DM25.2	Flail joint
DM25.3	Other instability of joint
DM25.5	Pain in joint
DM25.9	Joint disorder, unspecified
DM96.6* – DM96.9*	Fracture of bone following insertion of orthopaedic implant, joint prosthesis, or bone plate/ Other postprocedural musculoskeletal disorders/ Postprocedural musculoskeletal disorder, unspecified

DZ03.9 unspecified	Observation for suspected disease or condition,
DZ04.2* – DZ04.3*	Examination and observation following work accident/Examination and observation following other accident
DZ04.9*	Examination and observation for unspecified reason
DZ96.6* – DZ96.7*	Presence of orthopaedic joint implants/ Presence of other bone and tendon implants
DZ98.8	Other specified postsurgical states

(\* = incl. sublevels)

**b) A list of the procedural NCSP codes, which were applied for in the National Patient Registry data extraction to identify possible incorrectly coded dislocation cases:**

KNFA0* – KNFG9*	Exploratory procedures on the hip and thigh/Primary insertions of joint prosthesis in the hip joint/Secondary insertion of joint prosthesis into the hip joint/Operations on joint capsule and ligaments in the hip joint/Operations on synovia and joint surfaces of the hip joint/Resections, arthroplasty and arthrodesis of the hip joint
KNFJ0* - KNFW9*	Fracture treatments in the femur/Bone operations on the femur/Operations on muscles and tendons in the hip and thigh/Operations on fascia, tendon sheaths, ganglia and bursae in the hip and thighs/Transplantations on hip and thighs/ Replantations on hip and thighs/Amputations and other related hip and thigh surgery/Surgery for hip and thigh tumors/Operations of tendon, joint and bone infections in the hip and thigh/Different hip and thigh surgery/Removal of implants and external fixation equipment from hip and thigh/ Reoperations after hip and thigh surgery
KNFH0* – KNFH9*	Different joint operations in the hip
KNE*	Operations on the pelvis
KTNF*	Minor surgical procedures on hip and thighs

**c) Interpretation of correct coding of a THA dislocation:**

Ideally, every patient contact concerning an x-ray verified THA dislocation should be assigned with an ICD-10 diagnostic code (DT84.0A - Mechanical complication of internal joint prosthesis, hip). The contact should likewise be linked with a procedural code describing the intervention being performed. In this case reduction of the dislocated hip. The Danish version of the Nordic Medico-Statistical Committees (NOMESCO) Classification of Surgical Procedures (NCSP) is currently the standard application in Denmark. In this setting, the code KNFH2\* (reduction of dislocated joint prosthesis in the hip; \*either closed, arthroscopic or open) would be the most appropriate choice. There is also a laterality variable for each of the two codes. This is particular important in order to discriminate between relevant hip contacts and a contralateral hip not included in this study.