

EPRD Dataset - Feature Analysis

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Name	Description	Data type	Missingness
aufndatum	Date the patient was admitted to the hospital.	Date	No
opdatum	Date the operation took place.	Date	No
entl_verleg_tag	Date the patient was discharged from the hospital.	Date	No
TimeToSurgery	Time between admission and surgery.	Numerical	No
TimeToDischarge	Time between surgery and discharge.	Number	No
Weekday	Weekday of operation (Montag-Sonntag).	Categorical	No
Holiday	1 for operation on a holiday, 0 otherwise.	Boolean	No
Weekend	1 for operation on the weekend, 0 otherwise.	Boolean	No
HoliWeekend	1 if Holiday OR Weekend are true, 0 otherwise.	Boolean	No
TypeTreatment	Hemi endoprosthesis ("Hemi") or total endoprosthesis ("HTEP").	Categorical	No

Diagnosis	ICD-code for the primary diagnosis	Categorical	No
entl_verleg_grund	Number code for the discharge reason.	Categorical	No
VitalStatus	1 for deceased patients, 0 for alive.	Boolean	No
Sex	“male” or “female”.	Categorical	No
AgeAdmission	Age of admission.	Numerical	No
AgeDekade	Decade of admission age.	Numerical	No
GeriatricComplexTreat	1 if a geriatric complex treatment took place during the patient’s stay, 0 otherwise.	Boolean	No
FixationNum	Number denoting Fixation .	Categorical	No
Fixation	Type of fixation of the patient’s prosthesis (i.e. “zementiert”, “zementfrei”, etc.).	Categorical	No
TypeHemi	Type of hemi endoprosthesis if applicable, “NA” otherwise.	Categorical	No
TypeHemiNum	Number denoting TypeHemi .	Categorical	No
TypeShaft	Prosthetic shaft type.	Categorical	Yes (0.0051%)
TypeShell	Prosthetic shell type.	Categorical	Yes (67.3%)

Durability	Equivalent to ObservationTime .	Numerical	No
Failure	1 if the prosthetic failed, 0 otherwise.	Boolean	No
FailInfection	1 if the failure was caused by infection, 0 otherwise.	Boolean	No
FailMech	1 if the failure was mechanical, 0 otherwise.	Boolean	No
ObservationTime	Number of days the patient was observed with a correctly operating prosthetic.	Numerical	No
OPSCodesWechsel	OPS-codes conducted during the operation.	Categorical	No
AngebenerWechselgrund	If a prior operation occurred, the reason for it is denoted here.	Categorical	Yes (0.43%)
Numb_ElixDiagnosis	Number of Elixhauser-comorbidities present in the patient.	Numerical	Yes (0.43%)
ElixhauserScore	Mortality score calculated via Van-Walraven algorithm using the number of Elixhauser-comorbidities.	Numerical	Yes (0.43%)
NumYear2022	Number of operations the respective hospital conducted in the year 2022.	Numerical	Yes (33.4%)
BMI	Body Mass Index of the patient.	Numerical	Yes (21.9%)
TypeStemFixation	Stem fixation type.	Categorical	No