

Section/topic	Checklist item	Page reported
Title and abstract	Identification as a CT-based micromotion (CTMA) study in the title.	Title
	Identification as CTMA study in abstract and keywords.	Abstract
Methods		
Study details	Report prior publications.	NA
	First and last inclusion dates.	Methods p.6
	Country and hospital.	Methods p.6
	Number of surgeons.	NA
Study groups		
	Description of prosthesis/cement/liner.	NA
Follow-up		
	Postop exam before/after weightbearing.	Methods p.6
	Days surgery→baseline exam.	Methods p.4
	Days surgery→primary endpoint exam.	Table 1 / Methods p.4
RSA technique		
	Migration measurement method.	Methods p.7
	Patient position.	Methods p.6
	Software + version.	Methods p.7

Marker-/model-based RSA technique	Coordinate system orientation.	Methods p.7
	Use of MTPM.	NA
	Image resolution (DPI).	NA
	Marker material/size.	NA
	Calibration cage.	NA
	Condition number / fitting error.	NA
CT-RSA technique	Consistent/all-marker method.	NA
	CT-scanner model.	Methods p.7
	Voxel size, slice, kV, mAs.	Methods p.7
	Metal artifact reduction.	Methods p.7
	Radiation dose (mSv).	Methods p.7
Results		
Study flow		
Outcome	Number of migration exams/timepoints.	Results p.6
	Missing/excluded exams + reasons.	Results p.10
	Units mm/degrees used.	Yes
	Double exams statistics.	Supp. Tables
	Markers/condition number metrics.	NA

	Raw unmodelled data.	Supp. Tables
Revision/failures		
	Number of revisions/failures.	NA
	Migration before revision.	NA