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Supplementary Table 1. The questionnaire that was sent out to all orthopedic units to obtain supplementary data of infection interest on registered DAIR operations.

Social security number	
Date of reoperation <i>(year-month-day)</i>	
Reoperation due to infection <i>Sequence number according to SHAR</i>	
Number of culture samples <i>How many samples were obtained during the arthrocentesis/operation?</i>	<i>Preoperative:</i>
	<i>Peroperative:</i>
Number of positive samples for each microbe <i>e.g.: 3 staphylococcus aureus, 2 CoNS</i>	<i>Preoperative:</i>
	<i>Peroperative:</i>
Onset of symptoms <i>When did the patient contact health care for the first time? (year-month-day) If the date is unclear, please state month and year (e.g. 2015-10-?)</i>	
Antimicrobials prior to surgery? <i>(yes/no)</i>	
Antimicrobial agent 1 <i>Which type(s) of intravenous antimicrobials did the patient receive?</i>	
Antimicrobial agent 2 <i>Which type(s) of antimicrobial agents were prescribed at discharge?</i>	
Change of antimicrobial agents <i>Was the antimicrobial therapy changed after discharge?</i>	
Duration of antimicrobial therapy <i>How long did the patients receive antimicrobial treatment? Choose the best alternative.</i>	< 4 v 4 – 8 v 8 – 12 v > 12 v
Additional comments	

Supplementary Table 2. Distribution of type of component exchange (head or head and liner) and fixation method in regards to reoperation rate. In total, exchange of head was performed in 297 (81.6%) of cases and exchange of head and liner in 67 (18.4%) of cases.

	Uncemented <i>n</i> =87	Cemented <i>n</i> =485
Exchange <i>n</i>	57	307
Head	25	272
Head and liner	32	35 ^a
Non-exchange ^b <i>n</i>	30	178

^a Cemented Dual-Mobility THA or hybrid THA, ^b missing cases=3

Supplementary Table 3. Reoperation due to infection within two years of DAIR, model adjusted for primary diagnosis, sex, age, symptom onset from primary THA, symptom duration to DAIR, bacterial growth, method of fixation and ASA-class.

	HR	95% C.I.
DAIR procedure		
Non-exchange	1	
Exchange	0.48	0.35-0.65
Primary diagnosis		
Osteoarthritis	1	
Trauma	1.09	0.73-1.63
Other	1.14	0.69-1.86
Sex		
Male	1	
Female	0.84	0.61-1.16
Age	1.00	0.98-1.01
Time from p-THA to symptoms		
≤ 30 days	1	
> 30 days	0.95	0.65-1.39
Time from symptom to DAIR		
≤ 7 days	1	
> 7 days	0.76	0.52-1.10
Bacterial growth		
<i>S.aureus/S.lugdunensis</i>	1	
Polymicrobial	0.71	0.48-1.05
CoNS	0.54	0.31-0.93
Streptococci	0.83	0.50-1.38
Other	1.01	0.60-1.70
Negative	0.86	0.26-2.84
Fixation		
Uncemented	1	
Any component cemented	0.74	0.45-1.20
ASA-class		
I	1	
II	1.36	0.79-3.35
III-IV	1.48	0.82-2.66

p-THA= primary THA, ASA-class=American Society of Anesthesiologists Physical Status classification.

Supplementary Table 4. Multivariable analysis of revision of bone-anchored components due to infection within two years of DAIR, model adjusted for primary diagnosis, sex, age, symptom onset from primary THA, symptom duration to DAIR, bacterial growth and method of fixation.

	HR	95% C.I.
DAIR procedure		
Non-exchange	1	
Exchange	0.69	0.45-1.05
Primary diagnosis		
Osteoarthritis	1	
Trauma	1.13	0.61-2.10
Other	1.59	0.86-2.95
Sex		
Male	1	
Female	0.52	0.32-0.85
Age	0.98	0.96-1.00
Time from p-THA to symptoms		
≤ 30 days	1	
> 30 days	1.71	1.06-2.77
Time from symptom to DAIR		
≤ 7 days	1	
> 7 days	0.84	0.50-1.40
Bacterial growth		
<i>S.aureus/S.lugdunensis</i>	1	
Polymicrobial	1.09	0.61-1.93
CoNS	1.10	0.52-2.29
Streptococci	0.93	0.47-1.86
Other	1.00	0.61-1.62
Negative	1.93	0.57-6.57
Fixation		
Uncemented	1	
Any component cemented	0.94	0.53-1.68

p-THA= primary THA