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Appendix

Systematic Review Methodology

We utilized the PubMed interface to search the MEDLINE database. The search terms were used to search for terms related to total knee arthroplasty and revision and rates. We limited the search to human studies with available full texts and from the last 10 years: ("arthroplasty, replacement, knee"[MeSH Terms] OR ("arthroplasty"[All Fields] AND "replacement"[All Fields] AND "knee"[All Fields]) OR "knee replacement arthroplasty"[All Fields] OR ("total"[All Fields] AND "knee"[All Fields] AND "arthroplasty"[All Fields]) OR "total knee arthroplasty"[All Fields])) AND (revision[All Fields] AND "rate"[All Fields])) AND ("loattrfull text"[sb] AND "2009/05/13"[PDat] : "2019/05/10"[PDat] AND "humans"[MeSH Terms]).

This resulted in 927 articles meeting the above search build. These 927 studies underwent a rigorous screening process by title and abstract. If there was any question regarding the inclusion of a study, we retrieved and reviewed the full text of the article in question to determine eligibility. We excluded studies that: 1) studied revision, unicompartamental, bicompartamental, bilateral total knee arthroplasties; 2) studied any other surgical procedure (e.g. THA, ankle arthroplasty, etc); 3) studied specific implants (e.g. CR or PS, fixed-bearing plate); 4) studied specific subpopulations of patients, 5) studied index patients out of our age range (e.g. >65 years); and 6) that were commentaries, reviews (except systematic reviews/meta-analyses), and methodological papers. This resulted in a total of 66 studies of interest. Our list of studies was reviewed by the senior authors to ensure quality of the list of studies. After thorough review, 5 additional studies of interest were added to the list after ensuring adherence to the above exclusion criteria. The full texts of these 71 studies were analyzed and data were able to be extracted for the data input models of interest.