**Supplementary data S4 – Flow chart of détection of Surgical site infection**

Tableau 1 SSI detection during the joint replacement hospital stay

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| **Metric** | **Method of detection** |
| Eligible hospital adult stays in France for hip or knee arthroplasty :  154,615 hospital stays | National Hospital discharge database, January-September 2017 |
| Hip ou knee replacement :  153,835 hospital stays | Procedure codes for replacement of hip or knee (hip: NEKA010, NEKA012, NEKA013, NEKA014, NEKA015, NEKA016, NEKA017, NEKA019, NEKA020, NEKA021; knee: NFKA007, NFKA008, NFKA009) |
| Target population:  139,926 hospital stays | Application of the inclusion and exclusion criteria in the year 2017 taking into account medical history and patient health conditions in the previous 12 months before the replacement stay (*Supplementary data S2*)  Stratification by the unique patient number (ANO) in the French hospital discharge database |
| Hip/knee Surgical site infection  1,253 hospital stays | Defined by the presence in the resume and their association with ICD-10 codes and/or procedure codes, up to 3 months after the joint replacement, according to the algorithms built and validated (*Supplementary data S3)* |

*ICD-10 : international classification of diseases, 10th revision*