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| **Table S1. previously reported risk factors for OA** |
| **Risk Factor** | **Consortium/Study** | **GWAS ID/PMID** | **sample size** |
| Body mass index(BMI) | MRC-IEU | ukb-b-19953 | 461,460 |
| Waist circumference | / | ebi-a-GCST90014020/34017140 | 407,661 |
| Waist-to-hip ratio adjusted for BMI | / | ebi-a-GCST90025996/34226706 | 458,349 |
| Waist-to-hip ratio | / | ebi-a-GCST90029009/29892013 | 502,773 |
| Hip circumference | / |  ebi-a-GCST90014021/34017140 | 407,662 |
| HOMA-IR | / | ebi-a-GCST005179/20081858 | 37,037 |
| Fasting insulin | / | ebi-a-GCST90002238/34059833 | 151,013 |
| Modified Stumvoll ISI | / | ebi-a-GCST005178/27416945 | 16,753 |
| Modified Stumvoll ISI(adjusted for BMI) | / | ebi-a-GCST003658/27416945 | 16,753 |
| Abbreviations: HOMA-IR: Homeostasis model assessment of insulin resistance;Modified Stumvoll ISI: Modified Stumvoll Insulin Sensitivity Index |