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| **S1 Table. Search strategy in different databases** |
| Pubmed | Medline | Embase |
| (puberty OR pubertal OR menarche OR Tanner[Text Word] OR (voice (break OR breaking)) OR sexual maturation) AND (diabetes OR diabetic OR insulin OR blood sugar OR glucose OR ((glycated OR glycosylated) AND (haemoglobin OR haemoglobin))) AND (“Epidemiologic studies”[Mesh] OR “case control studies”[Mesh] OR “cohort studies”[Mesh] OR Case control[Text Word] OR cohort stud\*[Text Word] OR Cohort analy\*[Text Word] OR Follow up stud\*[Text Word] OR observational stud\*[Text Word] OR (observ\*[Text Word] association\*[Text Word]) OR Longitudinal[Text Word] OR Retrospective[Text Word] OR Recall\*[Text Word] OR Cross sectional[Text Word] OR “Cross-sectional studies”[Mesh] OR (nation\*[Text Word] stud\*[Text Word]) OR (nation\*[Text Word] survey\*[Text Word]) OR mendelian randomi\*[Text Word]) | 1. puberty.mp. or exp puberty/2. pubertal.mp.3. menarche.mp. or exp menarche/4. Tanner.tw.5. (voice adj (break or breaking)).mp.6. sexual maturation.mp. or exp sexual maturation/7. 1 or 2 or 3 or 4 or 68. diabetes.mp. or exp diabetes mellitus/9. diabetic.mp.10. exp insulin sensitivity/ or insulin.mp. or exp insulin resistance/11. blood sugar.mp. or exp glucose blood level/12. glucose.mp.13. exp glycosylated hemoglobin/14. or/8-1315. 7 and 1416. Epidemiologic studies/17. exp case control studies/18. exp cohort studies/19. Case control.tw.20. (cohort adj (study or studies)).tw.21. Cohort analy$.tw.22. (Follow up adj (study or studies)).tw.23. (observational adj (study or studies)).tw.24. Longitudinal.tw.25. Retrospective.tw.26. Cross sectional.tw.27. Cross-sectional studies/28. (observ\* adj (association or associations)).tw.29. (nation$ adj (study or studies or survey or surveys)).tw.30. recall\*.tw.31. exp Mendelian Randomization Analysis/ or mendelian randomi\*.mp.32. or/16-3133. 15 and 32 | 1. puberty.mp. or exp puberty/2. pubertal.mp.3. menarche.mp. or exp menarche/4. Tanner.tw.5. (voice adj (break or breaking)).mp.6. sexual maturation.mp. or exp sexual maturation/7. 1 or 2 or 3 or 4 or 68. diabetes.mp. or exp diabetes mellitus/9. diabetic.mp.10. exp insulin sensitivity/ or insulin.mp. or exp insulin resistance/11. blood sugar.mp. or exp glucose blood level/12. glucose.mp.13. exp glycosylated hemoglobin/14. 8 or 9 or 10 or 11 or 12 or 1315. 7 and 1416. clinical study/17. Case control study/18. Family study/19. Longitudinal study/20. Retrospective study/21. Prospective study/22. Cohort analysis/23. (Cohort adj (study or studies)).mp.24. (Case control adj (study or studies)).tw.25. (follow up adj (study or studies)).tw.26. (observational adj (study or studies)).tw.27. (epidemiologic$ adj (study or studies)).tw.28. (cross sectional adj (study or studies)).tw.29. (observ\* adj (association or associations)).tw.30. (nation$ adj (study or studies or survey or surveys)).tw.31. recall\*.tw.32. exp Mendelian randomization analysis/ or mendelian randomi\*.mp. or exp Mendelian randomization/33. or/16-3234. 15 and 33 |