**Online supplementary material 3.** Studies identified to be using each method for handling variables affected by medication use

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Affected measurement** |  | **Journal field** | | |
|  | **Cardiology** | **Diabetes** | **Epidemiology** |
| **Exposure** | **Ignoring medication use** | (1-11) | (12-19) | (20-23) |
|  | **Restricting the study population** |  |  | - |
|  | to medication users | - | (24) | - |
|  | to non-medication users | (25, 26) | (27) | - |
|  | to individuals free of a condition | (25, 28) | (13, 29-31) | - |
|  | **Adjusting as a binary covariate** |  |  | - |
|  | using medication (yes/no) | (28, 32) | (33-37) | - |
|  | having a condition (yes/no) | (38) | - |  |
|  | **Adding a constant value to the treated measurements** | (39) | - | - |
| **Outcome** | **Ignoring medication use** | (2, 4, 6, 40-45) | (15, 46-52) | (53-63) |
|  | **Restricting study population** |  |  |  |
|  | to non-medication users | (64) | (17, 65, 66) | (67-69) |
|  | to individuals free of a condition | - | (15, 29, 70, 71) | (72) |
|  | **Adjusting as a binary covariate** |  |  |  |
|  | using medication (yes/no) | (73-77) | (33, 78, 79) | (72, 80) |
|  | **Adding a constant value to the treated measurements** | (81, 82) | - | (83) |
| **Confounder** | **Ignoring medication use** | (5, 76, 84-89) | (27, 31, 37, 47, 70, 90-101) | (58, 102-106) |
|  | **Restricting study population** |  |  |  |
|  | to medication users | - | (93, 107, 108) | - |
|  | to non-medication users | - | (99) | - |
|  | to individuals free of a condition | (88, 109) | (52) | - |
|  | **Adjusting as a binary covariate** |  |  |  |
|  | using medication (yes/no) | (32, 74, 76, 77, 87, 89, 109-115) | (17, 19, 70, 92, 99, 107, 116-119) | (104, 120, 121) |
|  | having a condition (yes/no) | (122-126) | (78) | - |
| **Justification for the chosen method given** | | (26, 39, 64, 81, 82, 125) | (17, 66, 117) | (23, 72, 83) |
| **Sensitivity analysis performed** | | (4, 5, 10, 32, 41, 45, 76, 81, 84) | (15, 19, 34, 47-49, 51, 127) | (57, 59, 69, 80, 83) |

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