**Supplemental Table 1.** Relative risk [95% confidence interval (CI)] for study conclusion in favour of vitamin D and/or calcium associated with funding source and conflicts of interest (COI) disclosure among studies focused on vitamin D or calcium supplements (n=103)

|  |  |  |  |
| --- | --- | --- | --- |
| **Studies on vitamin D/calcium supplements (n=103)** | **Conclusion in favour of intervention (n=52)** | **Relative risk (95% CI)** | **p-value1** |
|  |  |  |  |
| Missing, unclear, or no funding (n=18) | 6 | Ref |  |
|  |  |  |  |
| Yes, disclosed funding sources (n=85) | 46 | 1.59 (0.81, 3.12) | 0.18 |
| Non-commercial / no funding (n=65) | 31 | Ref |  |
|  |  |  |  |
| Commercial funding (n=24) | 15 | 1.39 (0.76, 1.71) | 0.62 |
|  |  |  |  |
| Missing, or unclear funding source (n=14) | 6 | 0.70 (0.36, 1.38) | 0.4 |
| No COI (explicit statement) (n=37) | 17 | Ref |  |
|  |  |  |  |
| Missing or unclear COI declaration (n=37) | 26 |

|  |  |  |
| --- | --- | --- |
| 1.53 | (1.02, | 2.3) |

  | 0.05 |
| At least one author who declared COI(n=29) | 9 | 0.68 (0.35, 1.29) | 0.31 |
| Presence of COI disclosure statement (n=66) | 35 | Ref |  |
|  |  |  |  |
| Missing or unclear COI disclosure statement (n=37) | 17 | 1.79 (1.24, 2.57) | 0.004 |

**Supplemental Table 2.** Relative risk [95% confidence interval (CI)] for journal impact factor or study citation with study conclusion, disclosure of funding source, and disclosure of conflicts of interest (COI) in studies on vitamin D or calcium (n=156)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **All studies (n=156)** | **Conclusion in favour of intervention (n=76)** | **Relative risk (95% CI)** | **p-value** | **Disclosed funding (n=120)** | **Relative risk****(95% CI)** | **p-value** | **Disclosed COI (n=105)** | **Relative risk****(95% CI)** | **p-value** |
| **Journal 5-yr impact factor1** |  |  |  |  |  |  |  |  |  |
| Low: 3.485 (n=51) | 22 | Ref |  | 32 | Ref |  | 30 | Ref |  |
|  |  |  |  |  |  |  |  |  |  |
| Medium: 5.985 (n=52) | 30 | 1.34(0.90, 1.98) | 0.17 | 42 | 1.29(1.00, 1.65) | 0.05 | 36 | 1.18(0.88, 1.58) | 0.31 |
|  |  |  |  |  |  |  |  |  |  |
| High: 27.997 (n=53) | 24 | 1.05(0.68, 1.62) | 0.85 | 46 | 1.38(1.09, 1.75) | <0.01 | 39 | 1.25( 0.94,1.66) | 0.15 |
|  |  |  |  |  |  |  |  |  |  |
| **Frequency of citations**2 |  |  |  |  |  |  |  |  |  |
| Low: 34.5 (n=52) | 23 | Ref |  | 29 | Ref |  | 39 | Ref |  |
|  |  |  |  |  |  |  |  |  |  |
| Medium: 138 (n=52) | 24 | 1.04(0.68, 1.59) | 0.9 | 46 | 1.59(1.22, 2.06) | <0.001 | 38 | 0.97(0.78, 1.22) | 1.0 |
|  |  |  |  |  |  |  |  |  |  |
| Higher: 523.5 (n=52) | 29 | 1.26(0.85, 1.86) | 0.33 | 45 | 1.55(1.19, 2.02) | 0.001 | 28 | 0.72(0.53, 0.97) | 0.04 |
|  |  |  |  |  |  |  |  |  |  |

1, 2 The categories were based on tertiles of impact factors or citations and expressed as median of the values.