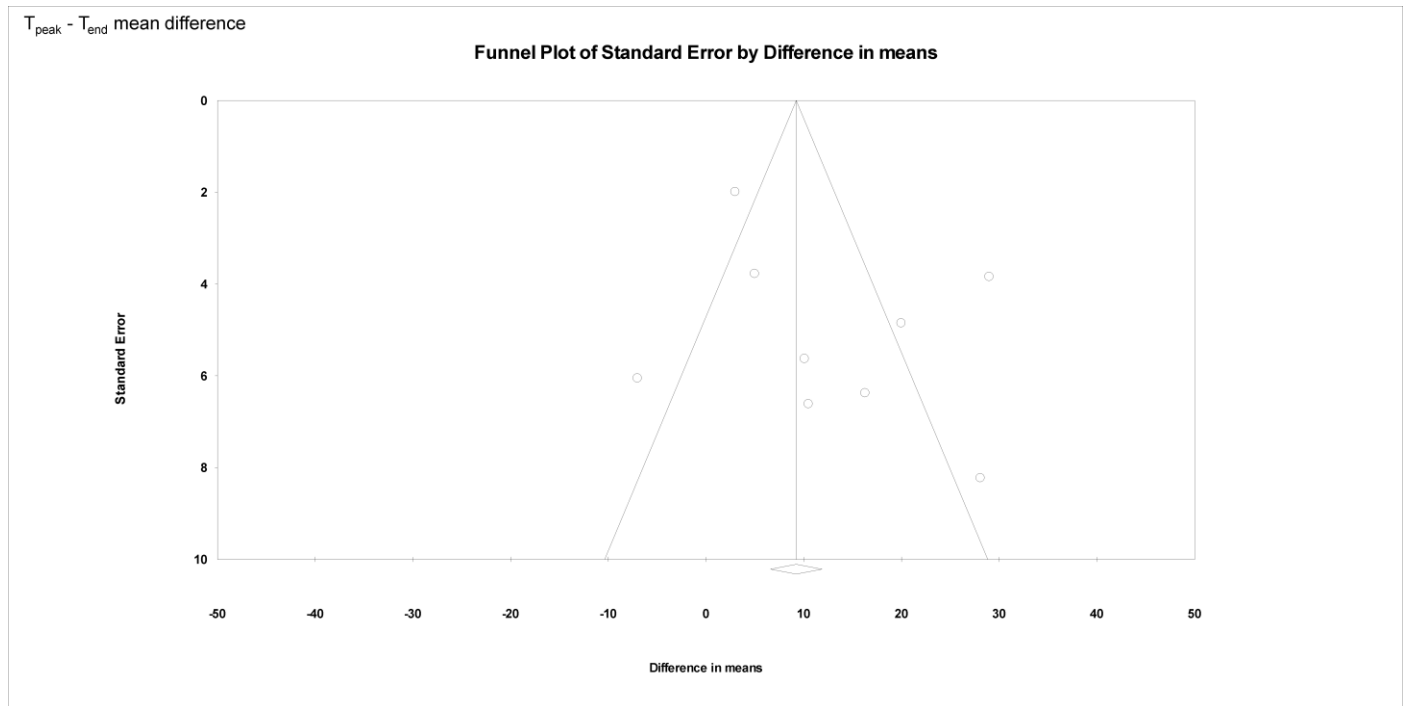
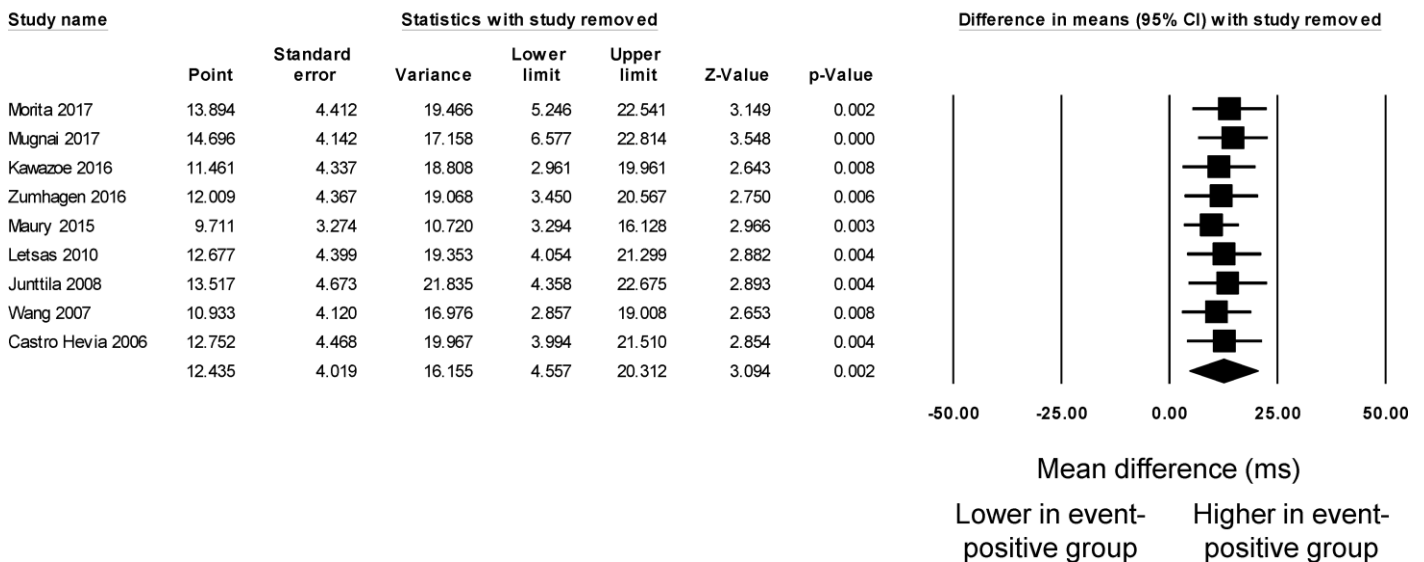


Supplementary Materials

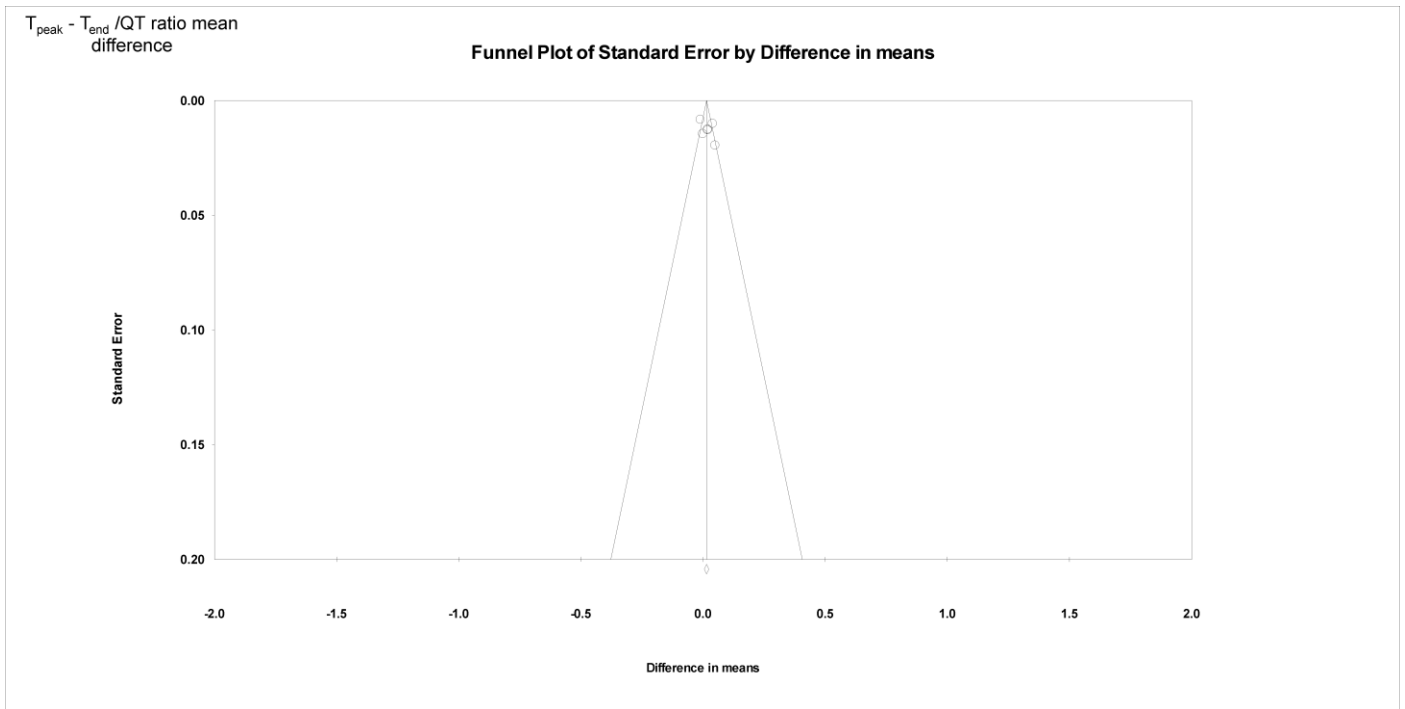


Supplementary Figure 1. Funnel plot of standard errors against differences in means for $T_{\text{peak}} - T_{\text{end}}$ interval.

Maximum $T_{\text{peak}} - T_{\text{end}}$ mean difference (sensitivity analysis)

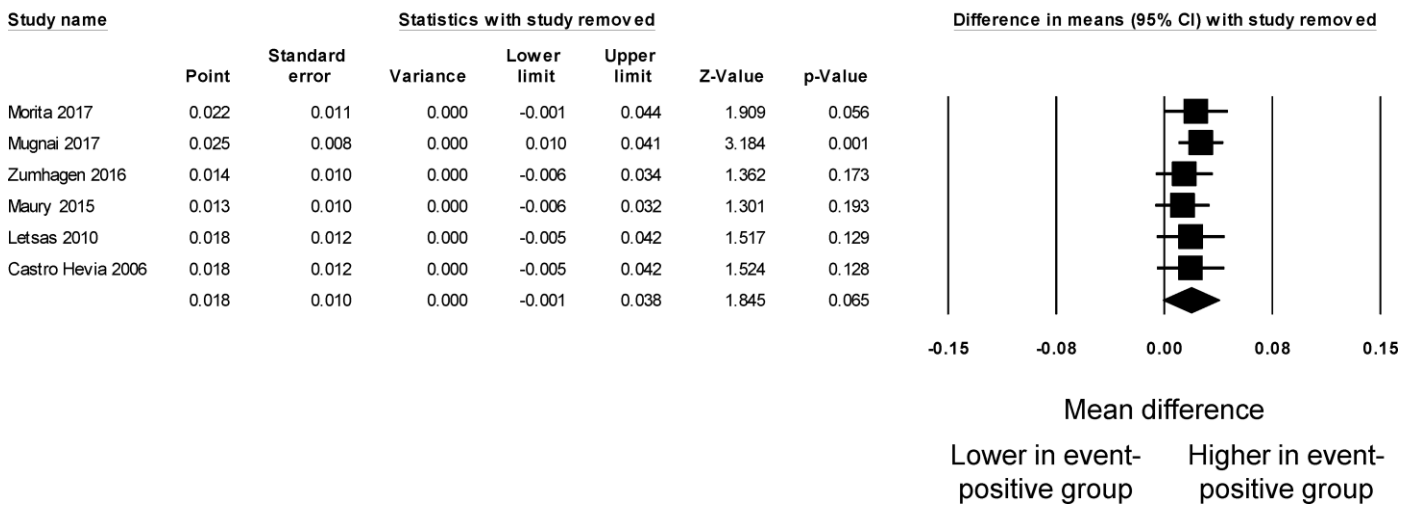


Supplementary Figure 2. Forest plot demonstrating the results of sensitivity analysis by removing one study at a time for mean differences for $T_{\text{peak}} - T_{\text{end}}$ interval.

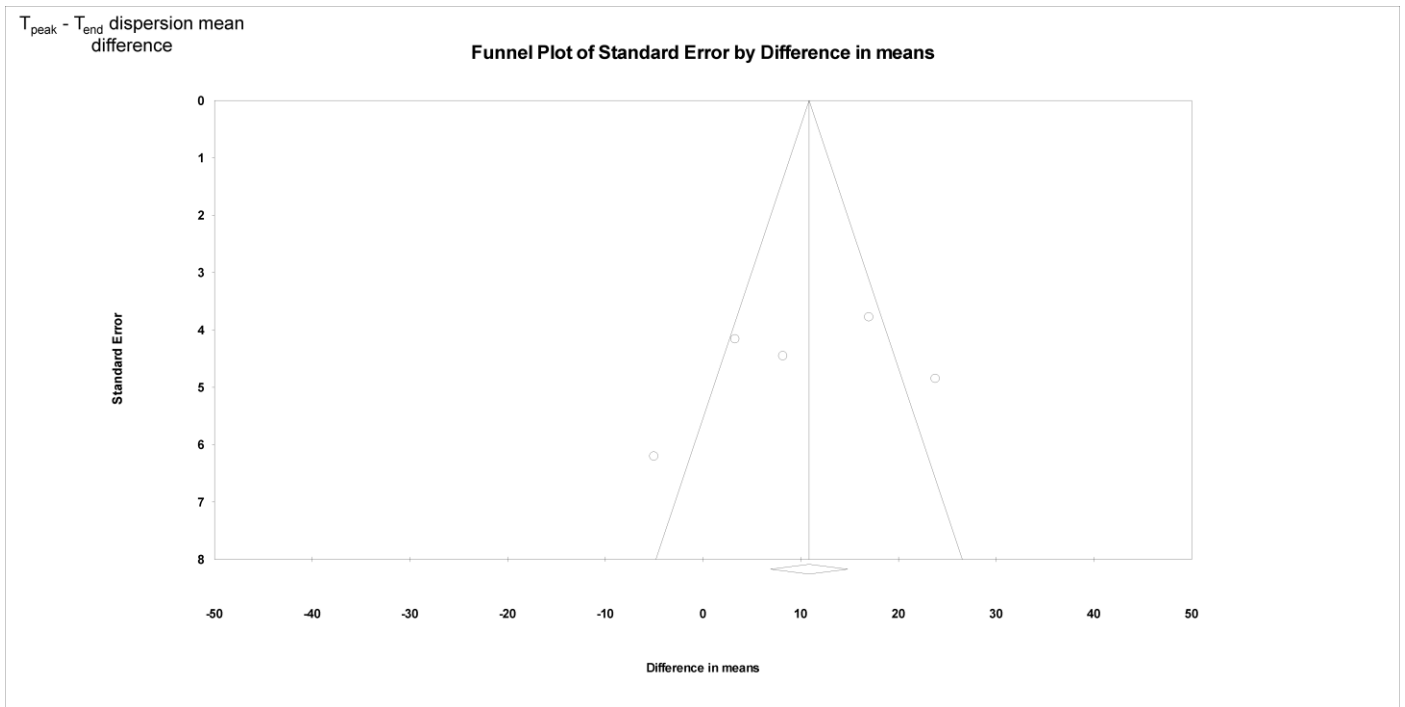


Supplementary Figure 3. Funnel plot of standard errors against differences in means for $T_{\text{peak}} - T_{\text{end}} / QT$ ratio.

Maximum $T_{\text{peak}} - T_{\text{end}} / QT$ ratio (sensitivity analysis)

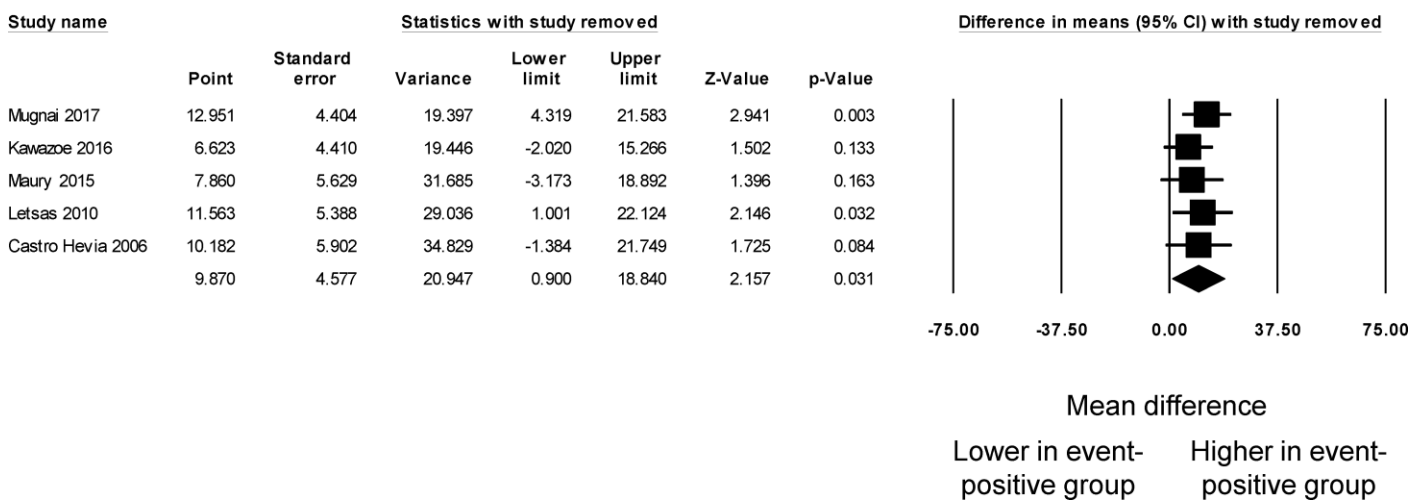


Supplementary Figure 4. Forest plot demonstrating the results of sensitivity analysis by removing one study at a time for mean differences for $T_{\text{peak}} - T_{\text{end}} / QT$ ratio.



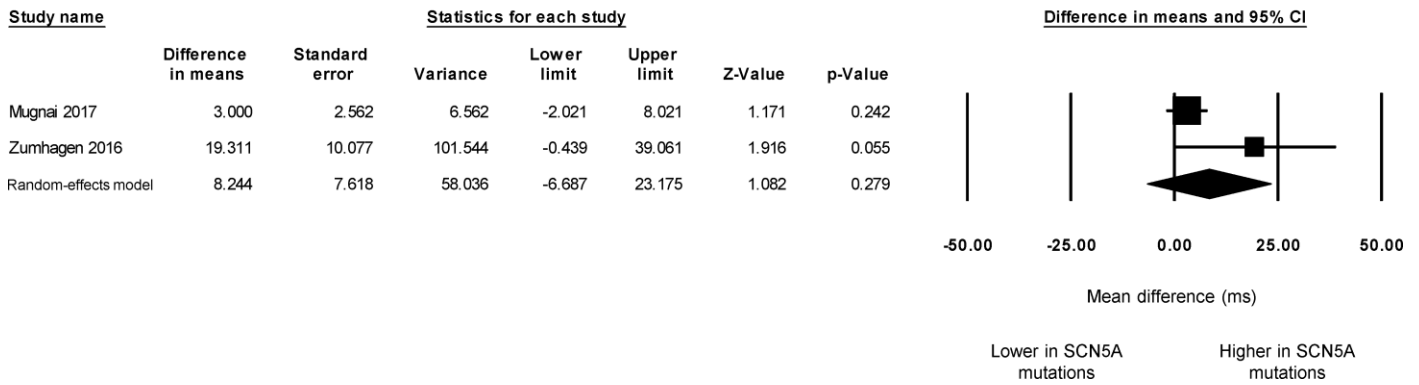
Supplementary Figure 5. Funnel plot of standard errors against differences in means for $T_{\text{peak}} - T_{\text{end}}$ dispersion.

Maximum $T_{\text{peak}} - T_{\text{end}}$ dispersion (sensitivity analysis)



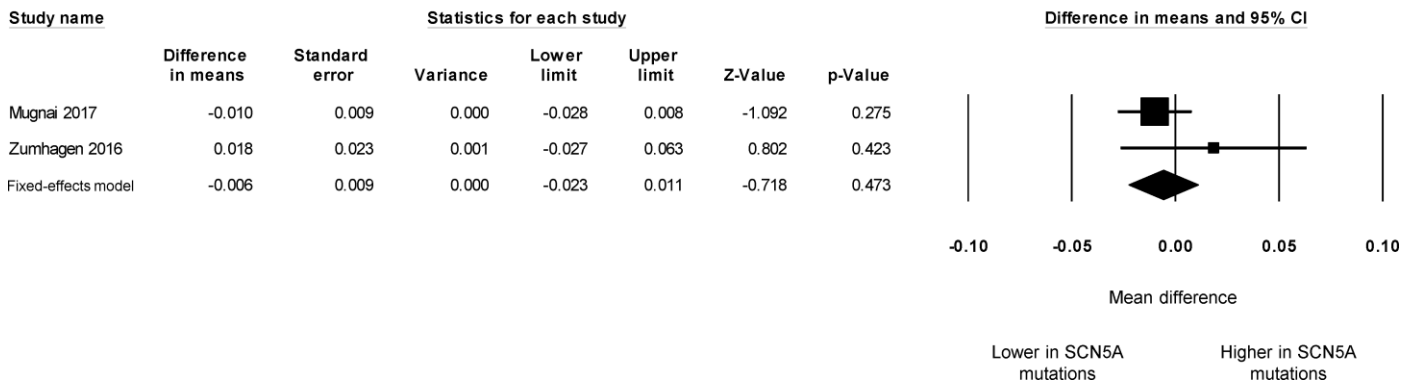
Supplementary Figure 6. Forest plot demonstrating the results of sensitivity analysis by removing one study at a time for mean differences for $T_{\text{peak}} - T_{\text{end}}$ dispersion.

Mean difference in maximum $T_{peak} - T_{end}$ between SCN5A and no SCN5A mutations



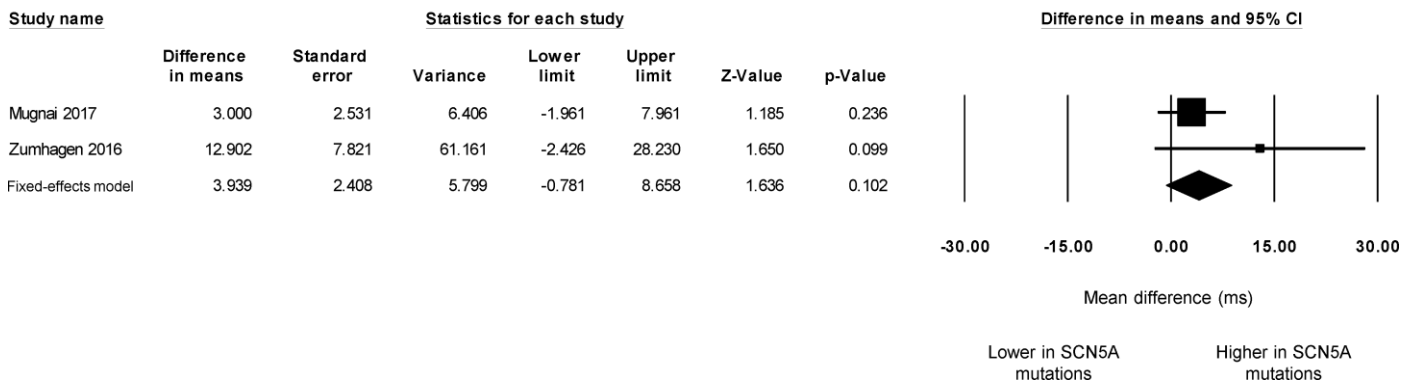
Supplementary Figure 7. Forest plot demonstrating the mean difference in $T_{peak} - T_{end}$ intervals between patients with and without SCN5A mutations in Brugada Syndrome.

Mean difference in maximum $T_{peak} - T_{end} / QT$ ratio between SCN5A and no SCN5A mutations



Supplementary Figure 8. Forest plot demonstrating the mean difference in $T_{peak} - T_{end} / QT$ ratios between patients with and without SCN5A mutations in Brugada Syndrome.

Mean difference in $T_{peak} - T_{end}$ dispersion between SCN5A and no SCN5A mutations



Supplementary Figure 9. Forest plot demonstrating the mean difference in $T_{peak} - T_{end}$ dispersion between patients with and without SCN5A mutations in Brugada Syndrome.

Supplementary Table 1. NOS risk of bias scale for cohort studies.

| Studies | Selection | | | | | Outcome | | | Total score (0-9) |
|-------------|----------------------------------|---|---------------------------|---|---------------|-----------------------|-----------------------------------|---------------------------------------|-------------------|
| | Representativeness of the Cohort | Selection of the exposed non-exposed cohort | Ascertainment of exposure | Outcome of interest present at start of study | Comparability | Assessment of outcome | Adequacy of duration of follow-up | Adequacy of completeness of follow-up | |
| Morita 2017 | 1 | 0 | 1 | 1 | 1 (age) | 1 | 1 | 1 | 7 |
| Mugnai 2017 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 6 |
| Letsas 2010 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 6 |

Supplementary Table 2. NOS risk of bias scale for included case-control studies.

| Studies | Selection | | | | Comparability | Exposure | | | Total score (0-9) |
|-------------------|------------------------------|-----------------------------|-----------------------|------------------------|---------------|---------------------------|---|-------------------|-------------------|
| | Adequate definition of cases | Representativeness of cases | Selection of controls | Definition of controls | | Ascertainment of exposure | Same method of ascertainment for subjects | Non-response rate | |
| Zumhagen 2016 | 1 | 1 | 0 | 0 | 1 (age) | 1 | 1 | 1 | 6 |
| Maury 2015 | 1 | 1 | 0 | 1 | 1 (age) | 1 | 1 | 1 | 7 |
| Junttila 2008 | 1 | 1 | 0 | 1 | 1 (age) | 1 | 1 | 1 | 7 |
| Wang 2007 | 1 | 1 | 1 | 1 | 1 (age) | 1 | 1 | 1 | 8 |
| Castro Hevia 2006 | 1 | 1 | 1 | 1 | 1 (age) | 1 | 1 | 1 | 8 |
| Kawazoe 2016 | 1 | 1 | 0 | 1 | 1 (age) | 1 | 1 | 1 | 7 |