Supplementary Data IIIB. Justification of the score

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| Paper | Selection | Comparability | Outcome |
| Uyanikoglu et al, 2018 | Case definition was accurate (laparotomy used to confirm OT)  Cases were representative.  No description of the origin of the controls  Controls had no history of the disease | The study controls for other ovarian pathology  The study controls for metabolic syndromes | Results were obtained from a secure record.  Same method was used for cases and controls  Non-response rate was the same for both groups |
| Reed et al, 2011 | The case definition is accurate  The study representative  The controls were selected from non-surgical hospital patients  The controls did not have ovarian pathology | The study controls for previous obstetric and gynaecological pathology  The study controls for those with communication difficulties | Records were ascertained from a secure source  The same method was used for cases and controls  Non-respondents were not described |
| Yilmaz et al, 2015 | The case definition was adequate.  The cases were representative.  The controls were community controls.  It is not explicitly stated that the controls have no history of ovarian torsion | The study controls for the method of taking and analysing blood  It is not clear whether the study controls for previous ovarian pathology | The results were obtained from secure records  The same method of ascertainment was used for cases and controls  The rate of non-respondents was not described |
| Topcu et al, 2015 | The case definition is accurate  The cases are representative  Controls are community controls | The study controls for the method of taking and analysing blood  The study controls for other ovarian pathology | The results were obtained from secure records  The same method of ascertainment was used for cases and controls.  Non-respondents were not described. |
| Guven et al, 2015 | The case definition is accurate.  The cases are representative  Controls are community controls  It is not explicitly stated that the controls have no history of ovarian torsion. | The study controls for other ovarian pathology  The study controls for metabolic syndromes. | The results were obtained from secure records.  The same method of ascertainment was used for cases and controls.  The rate of non-respondents was not described. |
| Nissen et al, 2019 | The case definition is accurate.  The cases are representative.  Controls are community controls.  It is not explicitly stated that the controls have no history of ovarian torsion | The study controls for other ovarian pathology  The study controls for metabolic syndromes | The results were obtained from secure records  The same method of ascertainment was used for cases and controls  The rate of non-respondents was not described |
| Daponte et al, 2006 | The case definition is accurate.  The cases are representative.  Controls are community controls.  It is not explicitly stated that the controls have no history of ovarian torsion | The study controls for patients with malignancy  The study controls for signs and symptoms of other pathologies | Records were obtained from a secure source  The same method of ascertainment was used for cases and controls.  The non-respondent rate is not described. |
| Incebiyik et al, 2015 | The case definition is accurate.  The cases are representative.  The controls are community controls.  It is not explicitly stated whether the controls have a previous history of ovarian torsion. | The study controls for signs and symptoms of malignancy  The study controls for signs and symptoms of other pathologies behind acute abdomen | The results were obtained from a secure record.  The same method of ascertainment was used for cases and controls.  The non-response rate was not described. |
| Cohen SB et al, 2001 | The case definition is accurate.  The cases are representative.  The controls are community controls.  It is not explicitly stated whether the controls have a previous history of ovarian torsion. | The study controls for signs and symptoms of malignancy  The study controls for signs and symptoms of other pathologies behind acute abdomen | The results were obtained from a secure record.  The same method of ascertainment was used for cases and controls.  The non-response rate was not described. |
| Zangene et al, 2017 | The case definition is accurate.  The cases are representative.  The controls are community controls.  It is not clearly stated whether the controls had a history of the disease. | The study controlled for other health issues.  The study controlled for the method of taking blood samples and the analysis of blood samples. | Results were obtained from a secure record.  The same method of ascertainment was used for patients and controls.  The non-response rate was the same for both groups. |
| Gu et al, 2018 | The case definition is accurate.  The cases are representative.  The controls are community controls.  It is not clearly stated whether the controls had a history of the disease. | The study controlled for patients with other pathologies.  The study controlled for the method of taking blood samples and the analysis of the blood samples. | The results were obtained from a secure record.  The same method of ascertainment was used for cases and controls.  The non-response rate was not described. |
| Aiob et al, 2022 | The case definition is accurate.  The cases are representative.  The controls are community controls.  It is not clearly stated whether the controls had a history of the disease. | The study controlled for other health issues.  The study controlled for the method of taking blood samples and the analysis of blood samples. | The results were obtained from a secure record.  The same method of ascertainment was used for cases and controls.  The non-response rate was not described. |