**SDC Table 3.** Non-randomized observational studies risk of bias assessment

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **Pre-intervention** | | **At intervention** | **Post-intervention** | | | | **Total score** |
| **Confounding bias** | **Selection bias** | **Classification bias** | **Deviation bias** | **Missing data bias** | **Measurement of outcome bias** | **Selective reporting bias** | **Overall risk bias judgement** |
| Abdel-Latif, et al, 2006 | Low | Low | Low | Low | Moderate | Moderate | Low | Low |
| Isemann, et al., 2011 | Moderate | Low | Low | Low | Moderate | Moderate | Low | Moderate |
| McQueen, et al., 2011 | Low | Low | Low | Low | Low | Moderate | Moderate | Low |
| O’Connor, et al., 2013 | Low | Moderate | Low | Low | Moderate | Moderate | Moderate | Low |
| Wachman, et al., 2013 | Low | Low | Low | Low | Moderate | Moderate | Moderate | Low |
| Welle-Strand, et al., 2013 | Moderate | Moderate | Low | Low | Moderate | Moderate | Low | Moderate |
| Liu, et al.,  2015 | Low | Low | Low | Low | Moderate | Moderate | Low | Low |
| Short, et al., 2016 | Moderate | Moderate | Low | Low | Moderate | Moderate | Moderate | Moderate |
| McDowell, et al., 2019 | Low | Low | Low | Low | Moderate | Moderate | Low | Low |
| Favara, et al., 2019 | Low | Moderate | Moderate | Low | Moderate | Moderate | Low | Moderate |