

**Supplementary Material****Table S1.** Literature review of perinatal risk factors for OBPP development in the general population.

| Author | Year | Journal | Population (N) | Incidence (%) |
|----------------------------------|------|-----------------------------|----------------|---------------|
| Macrosomia (>4 kg) | | | | |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 0.1% |
| Enomoto et al. | 2016 | PLoS One | 97157 | 0.8% |
| Ganeshan et al. | 2018 | J Obstet Gynaecol India | 88837 | 2.5% |
| Su et al. | 2019 | Ann Nutr Metab | 73498 | 2.7% |
| Song et al. | 2017 | BMJ Open | 1700976 | 3.1% |
| Zhao et al. | 2020 | PLoS One. | 27289 | 3.1% |
| Ijäs et al. | 2019 | PLoS One | 24577 | 3.2% |
| Tamez-Pérez et al. | 2017 | Endocrinol Diabetes Nutr | 1189 | 5.1% |
| Soliman et al. | 2018 | Acta Biomed | 12177 | 5.5% |
| Wang et al. | 2020 | BMC Pregnancy Childbirth | 490143 | 6.0% |
| Liu et al. | 2017 | BMJ Open | 213461 | 7.7% |
| Shang et al. | 2020 | Environ Sci Pollut Res Int | 321521 | 7.8% |
| Mallouli et al. | 2017 | Tunis Med | 10186 | 8.1% |
| Chen et al. | 2020 | Pediatr Obes | 177841 | 8.2% |
| Davis et al. | 2018 | Am J Perinatol Rep | 5937 | 9.7% |
| Litzky et al. | 2018 | Am J Obstet Gynecol | 180184 | 9.8% |
| Yang et al. | 2019 | Diabetes Res Clin Pract | 614175 | 11.2% |
| Kodan et al. | 2020 | PLoS One. | 2019 | 12.8% |
| Wang et al. | 2018 | J Matern Fetal Neonatal Med | 59424 | 13.9% |
| Moll et al. | 2020 | BMC Pregnancy Childbirth | 4738 | 17.6% |
| Aberg et al. | 2016 | Acta Obstet Gynecol Scand | 1030775 | 18.5% |
| Fetal distress (hypoxia)* | | | | |
| Coroneos et al. | 2016 | J neurosurg pediatri | 2762996 | 0.4% |
| Andersson et al. | 2016 | Clinical Epidemiology | 53022 | 0.6% |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 1.1% |
| DeFrancesco et al. | 2019 | J Pediatr Orthop | 3733760 | 1.9% |
| Schuit et al. | 2016 | J Matern Fetal Neonatal Med | 241595 | 4.9% |
| Huang et al. | 2020 | Journal of Dermatology | 2350330 | 5.0% |
| Hildén et al. | 2019 | Diabet Med | 1455667 | 6.8% |
| Frohlich et al. | 2020 | Pediatrics International | 1373612 | 7.2% |
| Stephansson et al. | 2018 | Plos one | 798338 | 7.3% |
| Zhong et al. | 2018 | BMC Pregnancy Childbirth | 23507597 | 14.3% |
| Heun-Johnson e al. | 2019 | J Perinatol | 5475739 | 16.4% |
| Gestational diabetes | | | | |
| Beyer et al. | 2020 | Eur Heart J | 18151897 | 0.2% |
| Coroneos et al. | 2016 | J neurosurg pediatri | 2762996 | 0.6% |
| Sorbye et al. | 2020 | BJOG | 614432 | 0.7% |
| Olsen et al. | 2017 | Acta Obstet Gynecol Scand. | 87792 | 0.9% |
| Barrett et al. | 2020 | PLoS Med | 1924409 | 0.9% |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 1.0% |
| Hildén et al. | 2020 | Diabet Med | 1455667 | 1.0% |
| Leirgul et al. | 2016 | Obstet Gynecol. | 914427 | 1.1% |
| Hildén et al. | 2019 | Diabet Med | 1294006 | 1.1% |
| Yu et al. | 2019 | BMJ | 2432000 | 1.1% |
| Fiaschi et al. | 2016 | Hum Reprod. | 8093653 | 1.5% |

| | | | | |
|--------------------------------|------|-----------------------------|----------|-------|
| Liu et al. | 2018 | Allergy | 544677 | 1.5% |
| Freeman et al. | 2017 | Int J Gynecol Obstet | 376325 | 1.8% |
| Holst et al. | 2016 | Fertil Steril. | 372677 | 2.0% |
| Lehmann et al. | 2019 | Acta Obstet Gynecol Scand | 57109 | 2.0% |
| Herrick et al. | 2019 | BMC Public Health | 45810 | 2.4% |
| Strand-Holm et al. | 2019 | Midwifery | 31297 | 2.5% |
| Nielsen et al. | 2020 | J Clin Endocrinol Metab | 725482 | 2.7% |
| Cesta et al. | 2019 | BMJ Open Diabetes Res Care | 5279231 | 2.8% |
| Sasaki et al. | 2020 | J Diabetes Investig | 82972 | 2.8% |
| Jeppesen et al. | 2017 | Scand J Public Health. | 566083 | 2.9% |
| Toijonen et al. | 2019 | Arch Gynecol Obstet | 2056 | 3.3% |
| Artzi et al. | 2020 | Nat Med | 451402 | 3.6% |
| Leeves et al. | 2019 | Tidsskr Nor Laegeforen | 34915 | 3.8% |
| Kim et al. | 2020 | BMJ Open Diabetes Res Care | 164053 | 4.0% |
| Papatheodorou et al. | 2020 | Sci Total Environ | 1061937 | 4.1% |
| Schraw et al. | 2020 | Ann Epidemiol | 6543385 | 4.1% |
| Yeung et al. | 2017 | J Diabetes Complications. | 12036 | 4.2% |
| Kim et al. | 2020 | Diabetes Res Clin Pract | 380208 | 4.5% |
| Balslev et al. | 2019 | Multiple sclerosis journal | 27664 | 4.9% |
| Yang et al. | 2019 | Diabetes Res Clin Pract | 650914 | 5.0% |
| Magtanong et al. | 2019 | J Matern Fetal Neonatal Med | 12584918 | 5.1% |
| Baghlaf et al. | 2019 | J Matern Fetal Neonatal Med | 7549763 | 5.2% |
| Yeung et al. | 2017 | J Diabetes Complications. | 17912 | 5.8% |
| Farland et al. | 2020 | Cancer Causes Control | 662630 | 5.9% |
| Robledo et al. | 2017 | Matern Child Health J. | 4821 | 6.7% |
| Boyle et al. | 2018 | Plos one | 96572 | 8.0% |
| Zeng et al. | 2020 | BMC Pregnancy Childbirth | 237293 | 8.0% |
| Ijäs et al. | 2019 | Plos one | 59057 | 9.6% |
| Kong et al. | 2019 | JAMA Pediatr | 649043 | 15.2% |
| Forceps delivery | | | | |
| DeFrancesco et al. | 2019 | J Pediatr Orthop | 3733760 | 0.1% |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 0.1% |
| Abdulrahman et al. | 2019 | Rev Bras Ginecol Obstet | 5461 | 0.2% |
| Aberg et al. | 2016 | Acta Obstet Gynecol Scand | 1332863 | 0.3% |
| Marschalek et al. | 2018 | Birth | 222494 | 0.3% |
| Huebner et al. | 2019 | Arch Gynecol Obstet | 27729 | 0.4% |
| Korbel' et al. | 2019 | Ceska Gynekol | | 0.6% |
| Bailit et al. | 2016 | Am J Obstet Gynecol | 2539 | 0.9% |
| Krizman et al. | 2019 | AJP Rep | 73257 | 1.0% |
| Nembhard et al. | 2019 | Matern Child Health J | 91622 | 1.4% |
| Domingues et al. | 2016 | Reprod Health | 23894 | 1.5% |
| Larsen et al. | 2016 | Acta Obstet Gynecol Scand | 2257724 | 2.1% |
| Biru et al. | 2019 | BMC Res Notes | 14688 | 2.3% |
| Wesnes et al. | 2017 | Acta Obstet Gynecol Scand | 7561 | 2.5% |
| Coroneos et al. | 2016 | J neurosurg pediatri | 2762996 | 2.6% |
| Vaginal breech delivery | | | | |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 0.1% |
| Bin et al. | 2017 | Acta Obstet Gynecol Scand | 1066599 | 0.1% |
| Hehir et al. | 2018 | Am J Obstet Gynecol | 27044217 | 0.1% |
| Hinnenberg et al. | 2019 | Arch Gynecol Obstet | 643340 | 0.1% |
| DeFrancesco et al. | 2019 | J Pediatr Orthop. | 3733760 | 0.2% |
| Coroneos et al. | 2016 | J neurosurg pediatri | 2762996 | 0.3% |
| Sucksdorff et al. | 2018 | Acta Paediatr | 49533 | 0.3% |
| Waldenström et al. | 2017 | BMC Pregnancy Childbirth | 436670 | 0.3% |

| | | | | |
|----------------------------|------|----------------------------------|----------|------|
| Bergenhengouwen et al. | 2016 | J Matern Fetal Neonatal Med | 1543 | 0.4% |
| Pyykönen et al. | 2017 | Acta Obstet Gynecol Scand | 3398586 | 0.4% |
| Macharey et al. | 2017 | BMC Pregnancy Childbirth | 585581 | 0.5% |
| Macharey et al. | 2018 | J Perinat Med | 415526 | 0.5% |
| Duffy et al. | 2019 | Acta Obstet Gynecol Scand | 872224 | 0.7% |
| Benjamin et al. | 2019 | Birth Defects Res | 1983 | 0.8% |
| Bjellmo et al. | 2017 | BMJ Open | 520047 | 1.1% |
| Laine et al. | 2020 | Eur J Obstet Gynecol Reprod Biol | 602095 | 1.4% |
| Wehberg et al. | 2018 | BMJ Open | 206992 | 2.2% |
| Lindblad et al. | 2020 | BMC Pregnancy Childbirth | 2129124 | 6.0% |
| Shoulder dystocia | | | | |
| Ganeshan et al. | 2018 | J Obstet Gynaecol India | 88837 | 0.1% |
| Heinonen et al. | 2020 | Acta Obstet Gynecol Scand | 800484 | 0.2% |
| Gandhi et al. | 2019 | J Hand Surg Am | 23385597 | 0.2% |
| Lalka et al. | 2019 | J Pediatr Orthop | 966447 | 0.2% |
| Von Heideken et al. | 2020 | BMC Musculoskelet Disord | 908324 | 0.2% |
| Kullinger et al. | 2018 | Sci Rep | 1100049 | 0.2% |
| Lamminpää et al. | 2016 | Obes Res Clin Pract | 249648 | 0.3% |
| Dahlberg et al. | 2018 | BMC Pregnancy Childbirth | 11667 | 0.3% |
| DeFrancesco et al. | 2019 | J Pediatr Orthop | 3733760 | 0.3% |
| Karahanoglu et al. | 2016 | Arch Gynecol Obstet | 62268 | 0.5% |
| Turkmen et al. | 2018 | J Pregnancy | 1373 | 0.7% |
| Larsen et al. | 2016 | Acta Obstet Gynecol Scand | 2257724 | 0.8% |
| Freeman et al. | 2017 | Int J Gynecol Obstet | 376325 | 1.0% |
| Ouzounian et al. | 2016 | J Reprod Med | 13998 | 1.6% |
| Santos et al. | 2018 | JOGNN | 19236 | 2.2% |
| Davis et al. | 2018 | Am J Perinatol Rep | 5937 | 2.2% |
| Pillai et al. | 2020 | Birth | 68966 | 2.6% |
| Coroneos et al. | 2016 | J neurosurg pediater | 2762996 | 2.8% |
| Clavicular fracture | | | | |
| Rehm et al. | 2019 | J Obstet Gynaecol. | 87461 | 0.1% |
| Coroneos et al. | 2016 | J neurosurg pediater | 2762996 | 0.2% |
| Gandhi et al. | 2019 | J Hand Surg Am. | 23385597 | 0.2% |
| Kekki et al. | 2020 | Acta Paediatr | 1203434 | 1.1% |
| Asena et al. | 2020 | J Neonatal Perinatal Med. | 33480 | 2.3% |