**S1 Fig - Flow charts for site-specific study populations**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Denmark** |  | **Scotland** |  | **England** |  | **New South Wales** |  | **Western Australia** |
|   |   |   |   |   |   |   |   |   |
| All liveborn births  |   | All in hospital deliveries  |   | All mother-infant pairs  |   | All liveborn births  |   | All liveborn births  |
| 1997-2010 |   | 2001-2015 |   | 1 April 1998 - 31 March 2010 |   | 2001-2012  |   | 1996-2012 |
| N=913,657 |   | n = 814,321 |   | n=7,335,218 |   | n=1,102,075 |   | n=469,589 |
|   |   |   |   |   |   |   |   |   |
| Singleton births only |   | Matched to birth record |   | Exclude stillbirths or unknown/unrecorded birth status |   | Singleton births only |   | Singleton births only |
| n=875,598 |   | n = 808,220 |   | n=5,787,983 |   |  n=1,054,963 |   | n=455,675 |
|   |   |   |   |   |   |   |   |   |
| Exclude congenital malformations (n=90,301)  |   | Single live births |   | Singleton births only |   | Exclude congenital malformations (n=108,793) and missing data (n=861) |   | Exclude congenital malformations (n=18,190) |
| **n=783,082** |   | n = 783,767 |   | n=5,623,414 |   | **n=945,309** |   | n=437,485 |
|   |   |   |   |   |   |   |   |   |
|   |   | Exclude congenital malformations (n = 63,952) |   | Exclude missing gestational age (n=833,558) and/or missing birthweight (n=41,928) |   |  |   | Exclude if records not available in Midwives database (n=543) |
|   |   | n = 719,815 |   | n=4,760,883 |   |  |   | **n=436,942** |
|   |   |   |   |   |   |  |   |   |
|   |   | Exclude unknown method of delivery (n = 190) |   | Exclude gestational age <30 or >43 weeks (n=113,132) and/or birthweight <500 or >5499 grams (n=7,917) |   |  |   |   |
|   |   | **n = 719,625** |   | n=4,641,666 |   |  |   |   |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   | Exclude congenital malformations (n=351,837) |   |   |   |   |
|   |   |   |   | **n=4,289,829** |   |   |   |   |
|   |   |   |   |   |   |   |   |   |