

**Web Table 1.** Characteristics of studies included in the meta-analyses

<b>Study<sup>a</sup></b>	<b>Study Design</b>	<b>Active / Passive</b>	<b>Percent Exposed</b>	<b>Outcome<sup>b</sup></b>	<b>Location</b>	<b>Years of Study</b>	<b>No. of Subjects</b>
Ahlborg 1991 <sup>1</sup>	Cohort	Both	36% / 15%	SB	Sweden	1980-1983	3,884
Aliyu 2008 <sup>2</sup> (r)	Cohort	Active	26%	SB	Missouri	1978-1997	1,436,628
Andrews 1972 <sup>3</sup> (n)	Cohort	Active	43%	PD	Wales	1965-1968	17,746
Bailey 1970 <sup>4</sup>	Cohort	Active	39%	PD	New Zealand	1969	1,174
Bech 2005 <sup>5</sup>	Cohort	Active	17%	SB	Denmark	1996-2002	88,402
Behrens 1987 <sup>6</sup>	Cohort	Active	28%	SB / ND / PD	Germany	1980-1985	6,261
Bell 1989 <sup>7</sup>	Cohort	Active	22%	PD	Australia	1985	5,622
Bernhard 1948 <sup>8</sup> (h)	Cohort	Active	8%	SB	Germany	1945-1947	1,470
Bernhard 1964 <sup>9</sup> (h)	Cohort	Active	19%	SB	Germany	1943-1963	4,096
Beyerlein 2010 <sup>10</sup>	Cohort	Active	11%	SB	Germany	1987-2007	2,292,053
Black 2008 <sup>11</sup> (l)	Cohort	Active	38%	History of SB	Scotland	1947-2002	34,079
Butler 1969 <sup>12</sup> (k)	Cohort / case control	Active	28%	SB / ND / PD	U.K.	1958	16,774
Butler 1972 <sup>13</sup> (k)	Case-control	Active	32%	SB / ND / PD	U.K.	1958	21,788
Cardozo 1982 <sup>14</sup>	Cohort	Active	32%	SB / ND	England	1981	2,000
Cnattingius 1993 <sup>15</sup> (j)	Cohort	Active	29%	ND	Sweden	1983-1988	538,829
Comstock 1967 <sup>16</sup> (q)	Cohort	Active	37%	SB / ND	Maryland	1953-1963	376
Comstock 1971 <sup>17</sup> (q)	Cohort	Active	38%	ND	Maryland	1953-1963	12,505
Conde-Agudelo 2000 <sup>18</sup>	Cohort	Active	11%	SB	Latin America	1985-1997	420,298
Cope 1973 <sup>19</sup>	Cohort	Active	30%	SB / ND / PD	Australia	1970-1971	4,067
Copper 1994 <sup>20</sup>	Cohort	Active	24%	SB	U.S.	1982-1986	34,350
Cuk 2000 <sup>21</sup>	Cohort	Active	26%	ND	Croatia	1987-1997	37,417
Dalaker 1984 <sup>22</sup>	Cohort	Active	37%	PD	Norway	1978-1979	2,408
De Scrilli 1986 <sup>23</sup>	Cohort	Active	18%	PD	Italy	1973-1979	36,544
Dodds 2000 <sup>24</sup> (c)	Case-control	Both	19% / 21%	SB	Canada	1991-2001	494
Donovan 1977 <sup>25</sup>	Cohort	Active	65%	PD	England	1972	1,274
Downing 1966 <sup>26</sup>	Cohort	Active	46%	SB / ND / PD	California	1952-1958	5,659

Endler 1986 <sup>27</sup>	Cohort	Active	26%	PD	Austria	1976-1982	6,688
English 1992 <sup>28</sup> (p)	Cohort	Active	38%	PD	California	1959-1966	13,208
Fabia 1973 <sup>29</sup>	Cohort	Active	43%	SB / ND / PD	Canada	1970-1971	6,879
Fabia 1980 <sup>30</sup>	Cohort	Active	40%	SB / ND / PD	Canada	1972	377
Faden 1997 <sup>31</sup> (o)	Case-control	Active	23%	SB	U.S.	1988	11,015
Ferraz 1991 <sup>32</sup>	Nested case-control	Active	34%	SB	Brazil	1984-1986	2,789
Forssas 1999 <sup>33</sup>	Cohort	Active	17%	PD	Finland	1991-1993	192,635
Frazier 1961 <sup>34</sup>	Cohort	Active	37%	SB / ND	Maryland	1959	2,736
Frkovic 1990 <sup>35</sup>	Cohort	Active	29%	SB	Croatia	1987-1988	716
Froen 2001 <sup>36</sup> (i)	Case-control	Active	25%	SB	Norway	1986-1995	658
Froen 2004 <sup>37</sup> (i)	Case-control	Active	25%	SB	Norway	1986-1995	597
Gaizauskiene 2007 <sup>38</sup>	Cohort	Both	5% / 39%	PD	Lithuania	2002	29,619
Gallicchio 2009 <sup>39</sup>	Cohort	Active	19%	SB	U.S.	1965-2008	747
Gardosi 1988 <sup>40</sup>	Case-control	Active	27%	SB	England	1988-1995	46,765
Geary 1997 <sup>41</sup>	Case-control	Active	57%	SB	Ireland	1989-1991	214
Goy 2008 <sup>42</sup> (c)	Case-control	Active	15%	SB	Canada	1999-2001	510
Gray 1991 <sup>43</sup>	Nested case-control	Active	38%	ND	Brazil	1984-1986	3,588
Greenwood 1994 <sup>44</sup>	Case-control	Active	7%	PD	Jamaica	1986-1987	11,507
Hall 1992 <sup>45</sup> (l)	Cohort	Active	28%	SB / ND / PD	Scotland	1980-1989	1,261
Hammoud 2005 <sup>46</sup>	Cohort	Active	23%	SB / ND	Germany	1991-1997	157,857
Helgadottir 2011 <sup>47</sup>	Case-control	Active	19%	SB	Norway	1990-2003	1,592
Helweg-Larsen 1996 <sup>48</sup>	Cohort	Active	NA	PD	Denmark	1991-1993	NA
Hiltunen 2010 <sup>49</sup>	Case-control	Active	11%	SB	Finland	1997-2009	820
Hogberg 1990 <sup>50</sup>	Case-control	Active	24%	PD	Sweden	1980-1984	570
Hogberg 2007 <sup>51</sup> (j)	Cohort	Active	18%	SB	Sweden	1983-2001	495,788
Hoyert 1996 <sup>52</sup>	Case-control	Active	20%	SB	U.S.	1989-1990	3,651,470
Hrubá 1997 <sup>53</sup>	Cross-sectional	Both	42%	SB	Czech Republic	1911-1993	3,180
Hubner 1988 <sup>54</sup>	Cohort	Active	48%	PD	Germany	1976-1986	1,148
Johansson 2009 <sup>55</sup> (j)	Cohort	Active	17%	ND	Sweden	1983-2002	557,318
Kallen 2001 <sup>56</sup> (j)	Cohort	Active	25%	SB / ND	Sweden	1983-1966	1,413,811
Kaminski 1978 <sup>57</sup> (g)	Cohort	Active	12%	SB	France	1963-1969	9,136
Karro 1998 <sup>58</sup>	Cohort	Active	5%	PD	Estonia	1992-1994	46,459

Kharazzi 2004 <sup>59</sup>	Cohort	Passive	80%	SB	California	1992	2,796
Kistin 1996 <sup>60</sup>	Cohort	Active	20%	PD	Illinois	1988	16,252
Kizer 1967 <sup>61</sup>	Cohort	Active	39%	PD	Venezuela	1966-1967	2,095
Kleinman 1988 <sup>62</sup> (r)	Cohort	Active	29%	ND	U.S.	1979-1983	362,261
Knorr 1979 <sup>63</sup>	Cohort	Passive	50%	SB / PD	Germany	1964-1972	5,183
Koller 1983 <sup>64</sup>	Cohort	Active	17%	SB / PD	Germany	1964-1971	7,538
Kullander 1971 <sup>65</sup>	Cohort	Active	44%	SB / ND / PD	Sweden	1963-1964	6,363
Lauenborg 2003 <sup>66</sup>	Case-control	Active	33%	SB	Denmark	1990-2000	1,361
Laurenti 1985 <sup>67</sup>	Cohort	Active	32%	SB / ND / PD	Brazil	1981-1982	11,133
Little 1993 <sup>68</sup>	Case-control	Active	24%	SB	U.S.	1980	3,669
Lowe 1959 <sup>69</sup>	Cohort	Active	37%	PD	England	1958	1,823
Lubs 1973 <sup>70</sup>	Cohort	Active	45%	ND / history of SB	Connecticut	1942-1971	4,242
Lumley 1985 <sup>71</sup>	Cohort	Active	38%	PD	Australia	1981-1982	10,889
Lynch 2007 <sup>72</sup>	Cohort	Active	12%	PD	Colorado	1994-2001	1,100
Makay 1968 <sup>73</sup>	Cross-sectional	Active	9%	PD	Hungary	1935-1966	2,341
Maleckiene 2001 <sup>74</sup>	Case-control	Active	20%	SB	Lithuania	1996-1998	174
Malloy 1988 <sup>75</sup> (r)	Cohort	Active	NR	ND	Missouri	1979-1983	305,730
Martin 2000 <sup>76</sup> (l)	Cohort	Active	36%	PD	Scotland	1969-1997	3,150
McCowan 2007 <sup>77</sup>	Case-control	Active	17%	SB	New Zealand	1993-2000	59,975
Medina 1990 <sup>78</sup>	Cross-sectional	Active	55%	SB	Chile	1943-1988	100
Meyer 1976 <sup>79</sup>	Cohort	Active	44%	PD	Canada	1960-1961	48,378
Meyer 1977 <sup>80</sup>	Cohort	Active	52%	SB / ND	Canada	1960-1961	51,490
Miller 2010 <sup>81</sup>	Cohort	Active	11%	SB	Canada	2004-2006	303,977
Mishra 2005 <sup>82</sup>	Cross-sectional	Both	5% / 42%	History of SB	India	1964-1999	19,189
Mohsin 2006 <sup>83</sup> (a)	Cohort	Active	18%	SB / ND	Australia	1998-2002	433,227
Mohsin 2008 <sup>84</sup> (b)	Cohort	Active	17%	PD	Australia	1994-2004	244,840
Murphy 1974 <sup>85</sup>	Cohort	Active	46%	SB / ND	Ireland	1969-1973	12,013
Niswander 1972 <sup>86</sup>	Cohort	Active	47%	SB / ND / PD	U.S.	1959-1965	39,215
No author 1995 <sup>87</sup> (d)	Cohort	Active	33%	SB	Denmark	1992	68,065
Ogunyemi 1998 <sup>88</sup>	Case-control	Active	10%	SB	New Jersey	1985-1995	308
Olsen 1999 <sup>89</sup> (d)	Cohort	Active	32%	SB / ND	Denmark	1991-1992	113,814
Palmgren 1973 <sup>90</sup>	Cohort	Active	47%	SB / PD	Sweden	1964-1967	4,312

Panduro Baron 2006 <sup>91</sup>	Case-control	Active	7%	SB	Mexico	2001-2005	900
Pastore 1997 <sup>92</sup>	Case-control	Active	22%	PD	California	1984	689
Petersson 2002 <sup>93</sup> (j)	Cohort	Active	9%	SB	Sweden	1998-1999	35,186
Puri 1981 <sup>94</sup>	Cohort	Active	1%	PD	India	1967-1978	1,497
Raatikainen 2007 <sup>95</sup>	Cohort	Active	13%	SB / ND / PD	Finland	1989-2001	25,591
Rantakallio 1969 <sup>96</sup> (f)	Cohort	Active	22%	PD	Finland	1965-1967	11,931
Rantakallio 1978 <sup>97</sup> (f)	Cohort	Active	50%	SB / ND	Finland	1966-1966	3,688
Raymond 1993 <sup>98</sup>	Cohort	Active	35%	PD	California	1974-1977	307
Reddy 2010 <sup>99</sup>	Cohort	Active	6%	SB	U.S.	2002-2008	174,809
Robson 2006 <sup>100</sup> (a)	Cohort	Active	41%	SB	Australia	1998-2003	21,880
Romero Gutierrez 2004 <sup>101</sup>	Case-control	Active	2%	SB	Mexico	1992-2002	500
Rumeau-Rouquette 1972 <sup>102</sup> (g)	Cohort	Active	12%	SB / ND	France	1963-1967	7,032
Rumeau-Rouquette 1974 <sup>103</sup> (g)	Cohort	Active	16%	SB / ND / PD	France	1963-1969	6,930
Rush 1972 <sup>104</sup>	Cohort	Active	47%	SB / ND / PD	Massachusetts	1961-1962	3,276
Rush 1983 <sup>105</sup>	Cohort	Active	41%	PD	U.K.	1970	16,688
Rush 1988 <sup>106</sup>	Cohort	Active	46%	PD	Israel	1974-1976	8,225
Rush 1990 <sup>107</sup> (n)	Cohort	Active	16%	PD	Wales	1965-1977	51,200
Rydhstroem 1996 <sup>108</sup> (j)	Cohort	Active	28%	SB / ND	Sweden	1983-1991	866,649
Salihu 2003 <sup>109</sup> (o)	Cohort	Active	13%	ND	U.S.	1997	3,004,616
Salihu 2004 <sup>110</sup> (o)	Cohort	Active	13%	SB / ND	U.S.	1995-1997	7,792,990
Salihu 2008 <sup>111</sup> (r)	Cohort	Active	25%	SB	Missouri	1978-1997	12,492
Sandahl 1989 <sup>112</sup>	Case-control	Active	29%	SB	Sweden	1980-1985	2,747
Savel 1962 <sup>113</sup>	Cohort	Active	47%	SB / ND / PD	New Jersey	1961-1961	1,415
Scholl 1986 <sup>114</sup>	Cohort	Active	34%	SB / PD	New Jersey	1982-1984	775
Schramm 1980 <sup>115</sup> (r)	Cohort	Active	6%	SB / ND / PD	Missouri	1978	69,556
Schramm 1997 <sup>116</sup> (r)	Cohort	Active	4%	SB / ND	Missouri	1978-1990	176,843
Smith 2007 <sup>117</sup> (m)	Cohort	Active	29%	SB	Scotland	1992-2001	84,769
Strandberg-Larsen 2008 <sup>118</sup>	Cohort	Active	16%	SB	Denmark	Not available	87,032
Subramoney 2010 <sup>119</sup>	Cross-sectional	Passive	30%	SB	India	1973-2002	924

Sutan 2010 <sup>120</sup> (m)	Cohort	Active	26%	SB	Scotland	1994-2003	543,263
Targett 1973 <sup>121</sup>	Cohort	Active	39%	PD	Australia	1971-1972	1,000
Targett 1977 <sup>122</sup>	Cohort	Active	34%	PD	Australia	1973-1975	3,000
Tielsch 2009 <sup>123</sup>	Cohort	Passive	40%	SB / ND	India	1998-2000	13,294
Tuthill 1999 <sup>124</sup>	Cohort	Active	27%	SB / ND / PD	U.K.	1993-1995	16,250
Tviet 2010 <sup>125</sup>	Cohort	Active	78%	PD	Norway	2004-2005	2,168
Uncu 2005 <sup>126</sup>	Cohort	Both	10% / 46%	SB	Turkey	2004	499
Underwood 1965 <sup>127</sup>	Cross-sectional	Active	34%	SB	South Carolina	1931-1961	4,441
Underwood 1967 <sup>128</sup>	Cohort	Active	49%	SB / ND / PD	South Carolina	1963-1965	48,494
Van der Velde 1985 <sup>129</sup>	Cohort	Active	48%	PD	Netherlands	1978-1979	597
Verkerk 1994 <sup>130</sup>	Cohort	Active	35%	SB	Netherlands	1978-1979	2,806
Wang 1997 <sup>131</sup>	Cross-sectional	Active	25%	History of SB	Massachusetts	1957-1992	647
Wikstrom 2010 <sup>132</sup> (j)	Cohort	Active	10%	SB	Sweden	1999-2006	562,829
Wilcox 1993 <sup>133</sup> (r)	Cohort	Active	16%	PD	Missouri	1980-1984	257,698
Winbo 2001 <sup>134</sup> (j)	Cohort	Active	24%	SB / PD	Sweden	1983-1995	1,412,754
Wisborg 2001 <sup>135</sup> (e)	Cohort	Active	30%	SB	Denmark	1989-1996	25,102
Wisborg 2008 <sup>136</sup> (e)	Cohort	Active	26%	SB	Denmark	1989-1998	19,282
Wong 1997 <sup>137</sup> (b)	Cohort	Active	3%	PD	Australia	1994	684,034
Wood 2008 <sup>138</sup>	Cohort	Active	17%	SB	Canada	1991-2004	157,929
Wu 1998 <sup>139</sup> (o)	Case-control	Active	31%	SB	U.S.	1988	12,465
Xu 1998 <sup>140</sup> (f)	Cohort	Active	22%	PD	Finland	1966-1986	20,873
Yerushalmy 1964 <sup>141</sup> (p)	Cohort	Active	38%	ND	California	1959-1963	6,800
Yerushalmy 1971 <sup>142</sup> (p)	Cohort	Active	37%	ND	California	1960-1967	13,083

NA, not reported; ND, neonatal death; PD, perinatal death; SB, stillbirth.

<sup>a</sup> Footnote markers (a) through (s) denote studies from the same “set” of definite or probable duplicated pregnancy data. Only one study from each set was used in any given analysis.

**Web Table 2.** Studies included in systematic review and excluded from meta-analyses

<b>Reason for Exclusion</b>	<b>Studies</b>
Not enough data for computation of estimates or variance of the association	143-159
Exposure reference group not comparable to nonsmokers	160, 161
Only analysis also adjusted for birth weight	162, 163
No other studies with comparable analyses	164, 165
Duplicated data	See Web Table 3

**Web Table 3.** Studies by “set” and analyses

<b>Study</b>	<b>Outcome</b>	<b>Location</b>	<b>Years of Study</b>	<b>Data Set/Study Name or Description (Set Number)<sup>a</sup></b>	<b>Analyses<sup>b</sup></b>
Mohsin 2006 <sup>83</sup>	SB / ND	Australia	1998-2002	New South Wales Midwives Data Collection (1)	1, 3, 7, 9, 10, 13, 17, 19, 23, 25, 26, 27, 29, 31, 33, 39, 40, 43, 47, 50, 53, 55, 56, 57, 59
Robson 2006 <sup>100</sup>	SB	Australia	1998-2003	New South Wales Midwives Data Collection (1)	14
Mohsin 2008 <sup>84</sup>	PD	Australia	1994-2004	New South Wales Midwives Data Collection (1)	61, 63, 67, 69, 70, 71, 73, 77, 79, 83, 85, 86, 87, 88
Wong 1997 <sup>137</sup>	PD	Australia	1994	New South Wales Midwives Data Collection (1)	89
Bell 1989 <sup>7</sup>	PD	Australia	1985		61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 89
Cope 1973 <sup>19</sup>	SB / ND / PD	Australia	1970-1971		1, 3, 7, 8, 10, 14, 17, 19, 23, 25, 27, 28, 30, 31, 33, 38, 40, 44, 47, 49, 53, 55, 57, 58, 60, 61, 63, 67, 68, 70, 74, 77, 79, 83, 85, 87, 88, 90
Lumley 1985 <sup>71</sup>	PD	Australia	1981-1982		61, 63, 67, 68, 70, 78, 83, 85, 87, 89
Targett 1973 <sup>121</sup>	PD	Australia	1971-1972		61, 63, 68, 70, 76, 78, 83, 85, 87, 89, 90
Targett 1977 <sup>122</sup>	PD	Australia	1973-1975		61, 63, 67, 68, 70, 76, 78, 83, 85, 87, 89, 90
Endler 1986 <sup>27</sup>	PD	Austria	1976-1982		61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 89
Ferraz 1991 <sup>32</sup>	SB	Brazil	1984-1986		1, 3, 7, 9, 10, 13, 18, 23, 24, 26, 29

Gray 1991 <sup>43</sup>	ND	Brazil	1984-1986		31, 33, 39, 40, 43, 47, 49, 53, 56, 59
Laurenti 1985 <sup>67</sup>	SB / ND / PD	Brazil	1981-1982		1, 3, 7, 9, 10, 13, 14, 17, 20, 23, 25, 27, 29, 30, 31, 33, 39, 40, 43, 44, 47, 49, 53, 55, 57, 59, 60, 61, 63, 67, 69, 70, 73, 74, 77, 80, 83, 85, 87, 89, 90
Dodds 2006 <sup>24</sup>	SB	Canada	1991-2001	All stillbirths in Nova Scotia and Eastern Ontario (2)	2, 21, 27
Goy 2008 <sup>42</sup>	SB	Canada	1999-2001	All stillbirths in Nova Scotia and Eastern Ontario (2)	1, 3, 7, 9, 11, 18, 23, 24, 26, 29
Meyer 1974 <sup>166</sup>	PD	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	None
Meyer 1976 <sup>79</sup>	PD	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	61, 63, 67, 69, 70, 73, 76, 77, 79, 83, 85, 97, 89, 90
Meyer 1977 <sup>80</sup>	SB / ND	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	1, 3, 7, 9, 10, 13, 17, 19, 23, 25, 27, 29, 31, 33, 39, 40, 43, 47, 49, 53, 55, 57, 59
Ontario 1967 <sup>167</sup>	PD	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	None
Rush 1981 <sup>168</sup>	PD	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	None
Terrin 1981 <sup>169</sup>	PD	Canada	1960-1961	Ontario Perinatal Mortality Study (3)	None
Fabia 1973 <sup>29</sup>	SB / ND / PD	Canada	1970-1971		1, 3, 7, 9, 10, 13, 18, 23, 25, 27, 29, 31, 33, 39, 40, 43, 47, 49, 53, 55, 57, 59, 61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 89
Fabia 1980 <sup>30</sup>	SB / ND / PD	Canada	1972		1, 4, 9, 10, 13, 18, 23, 25, 26, 29, 31, 34, 39, 40, 43, 47, 49, 53, 55, 57, 59, 61, 64, 67, 69, 70, 73, 78,



					83, 85, 86, 89
Miller 2010 <sup>81</sup>	SB	Canada	2004-2006		1, 3, 7, 9, 11, 17, 19, 23, 25, 26, 27, 29
Wood 2008 <sup>138</sup>	SB	Canada	1991-2004	Alberta Perinatal Health Program	1, 3, 7, 9, 11, 17, 20, 23, 25, 26, 29
Medina 1990 <sup>78</sup>	SB	Chile	1943-1988		5
Cuk 2000 <sup>21</sup>	ND	Croatia	1987-1997		31, 33, 39, 40, 43, 48, 49, 53, 55, 57, 59
Frkovic 1990 <sup>35</sup>	SB	Croatia	1987-1988		1, 3, 7, 9, 10, 13, 17, 19, 23, 25, 27, 29
Hruba 1997 <sup>53</sup>	SB	Czech Republic	1911-1993		5, 14, 15, 30
No author 1995 <sup>87</sup>	SB	Denmark	1992	Danish Medical Birth Register (4)	29
Olsen 1999 <sup>89</sup>	SB / ND	Denmark	1991-1992	Danish Medical Birth Register (4)	1, 3, 7, 8, 10, 17, 20, 23, 25, 27, 28, 31, 33, 38, 40, 47, 50, 53, 55, 57, 58
Wisborg 2001 <sup>135</sup>	SB	Denmark	1989-1996	Aarhus University Hospital (5)	1, 2, 3, 7, 8, 11, 12, 14, 17, 20, 23, 25, 26, 29, 30
Wisborg 2008 <sup>136</sup>	SB	Denmark	1989-1998	Aarhus University Hospital (5)	27
Bech 2005 <sup>5</sup>	SB	Denmark	1996-2002	Danish National Birth Cohort	30
Helweg-Larsen 1996 <sup>48</sup>	PD	Denmark	1991-1993	Danish National Register of Causes of Deaths	61, 63, 67, 68, 70, 77, 80, 83, 85, 86, 89
Lauenborg 2003 <sup>66</sup>	SB	Denmark	1990-2000		1, 4, 9, 10, 13, 17, 20, 23, 24, 26, 28
Strandberg-Larsen 2008 <sup>118</sup>	SB	Denmark	Not available	Danish National Birth Cohort (DNBC)	1, 3, 7, 8, 11, 12, 17, 19, 23, 25, 26, 27, 28

Karro 1998 <sup>58</sup>	PD	Estonia	1992-1994	Estonian Medical Birth Registry	61, 64, 67, 69, 71, 77, 79, 83, 85, 86, 87, 89
Rantakallio 1969 <sup>96</sup>	PD	Finland	1965-1967	All births in Oulu and Lapland (6)	64, 88
Rantakallio 1978 <sup>97</sup>	SB / ND / PD	Finland	1966	All births in Oulu and Lapland (6)	1, 3, 7, 8, 10, 18, 23, 25, 27, 29, 31, 33, 38, 40, 47, 50, 53, 55, 57, 59
Rantakallio 1978 <sup>170</sup>	SB / ND / PD	Finland	1966	All births in Oulu and Lapland (6)	None
Rantakallio 1979 <sup>171</sup>	PD	Finland	1966	All births in Oulu and Lapland (6)	None
Xu 1998 <sup>140</sup>	PD	Finland	1966-1986	All births in Oulu and Lapland (6)	61, 63, 67, 68, 70, 78, 83, 85, 87, 89
Forssas 1999 <sup>33</sup>	PD	Finland	1991-1993	Finnish Medical Birth Register	61, 63, 67, 69, 71, 77, 79, 83, 85, 86, 87, 89
Hiltunen 2010 <sup>49</sup>	SB	Finland	1997-2009		1, 3, 7, 9, 11, 17, 19, 23, 26, 29
Raatikainen 2007 <sup>95</sup>	SB / ND / PD	Finland	1989-2001		1, 3, 5, 8, 10, 17, 19, 23, 25, 27, 29, 31, 33, 38, 40, 41, 47, 49, 53, 55, 56, 57, 59, 61, 63, 67, 68, 71, 77, 79, 83, 85, 86, 87, 89
Goujard 1975 <sup>172</sup>	SB	France	1963-1969	Survey of the French National Institute of Health and Medical Research (7)	None
Goujard 1978 <sup>173</sup>	SB	France	1963-1969	Survey of the French National Institute of Health and Medical Research (7)	None
Kaminski 1978 <sup>57</sup>	SB	France	1963-1969	Survey of the French National Institute of Health and Medical Research (7)	1, 3, 7, 8, 10, 18, 23, 25, 27, 29
Rumeau-Rouquette 1972 <sup>102</sup>	SB / ND	France	1963-1967	Survey of the French National	2, 31, 32, 33, 38, 40, 47, 49, 53,

				Institute of Health and Medical Research (7)	55, 57, 59
Rumeau-Rouquette 1974 <sup>103</sup>	SB / ND / PD	France	1963-1969	Survey of the French National Institute of Health and Medical Research (7)	14, 28, 30, 44, 58, 60, 61, 62, 63, 67, 68, 70, 74, 78, 83, 85, 87, 88, 90
Schwartz 1972 <sup>174</sup>	SB / ND / PD	France	1963-1969	Survey of the French National Institute of Health and Medical Research (7)	None
Bernhard 1948 <sup>8</sup>	SB	Germany	1945-1947	Obstetrical-Gynecological Department Eduard Morian Foundation to Duisburg Hamborn (8)	5
Bernhard 1964 <sup>9</sup>	SB	Germany	1943-1963	Obstetrical-Gynecological Department Eduard Morian Foundation to Duisburg Hamborn (8)	1, 3, 7, 8, 10, 17, 20, 23, 25, 27, 29
Knorr 1979 <sup>63</sup>	SB / PD	Germany	1964-1972	German Research Foundation Study on Course of Pregnancy and Child Development (9)	21, 81
Mau 1974 <sup>175</sup>	SB / PD	Germany	1972-1973	German Research Foundation Study on Course of Pregnancy and Child Development (9)	None
Behrens 1987 <sup>6</sup>	SB / ND / PD	Germany	1980-1985	Lower Saxony Perinatal Survey	1, 3, 7, 9, 10, 13, 18, 23, 25, 27, 29, 31, 33, 39, 40, 43, 48, 50, 53, 55, 57, 59, 61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 89
Beyerlein 2010 <sup>10</sup>	SB	Germany	1987-2007		1, 3, 7, 8, 11, 12, 18, 23, 25, 26, 29
Hammoud 2005 <sup>46</sup>	SB / ND	Germany	1991-1997		14, 30, 44, 60

Hubner 1988 <sup>54</sup>	PD	Germany	1976-1986		61, 64, 67, 69, 70, 73, 78, 83, 85, 87, 89
Koller 1983 <sup>64</sup>	SB / PD	Germany	1964-1971		14, 30, 74, 90
Makay 1968 <sup>73</sup>	PD	Hungary	1935-1966		61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 89
Mishra 2005 <sup>82</sup>	SB	India	1964-1999	National Family Health Survey (NFHS-2)	5
Puri 1981 <sup>94</sup>	PD	India	1967-1978		74, 90
Subramoney 2010 <sup>119</sup>	History of SB	India	1973-2002		21
Tielsch 2009 <sup>123</sup>	SB / ND	India	1998-2000		21, 51
Rush 1988 <sup>106</sup>	PD	Israel	1974-1976	Jerusalem Perinatal Study	61, 62, 64, 67, 69, 70, 73, 77, 80, 83, 85, 87, 89, 90
De Scrilli 1986 <sup>23</sup>	PD	Italy	1973-1979		62, 74, 90
Greenwood 1994 <sup>44</sup>	SB / PD	Jamaica	1986-1987	Jamaican Perinatal Mortality Survey	1, 3, 7, 9, 11, 18, 23, 24, 26, 28, 61, 63, 67, 69, 71, 78, 83, 84, 86, 88
Conde-Agudelo 2000 <sup>18</sup>	SB	Latin America	1985-1997	Perinatal Information System database	1, 3, 7, 8, 11, 12, 17, 19, 23, 25, 26, 27, 29
Gaizauskiene 2007 <sup>38</sup>	PD	Lithuania	2002	Lithuanian Medical Birth Registry	61, 63, 67, 68, 71, 77, 79, 81, 83, 85, 86, 87, 89
Maleckiene 2001 <sup>74</sup>	SB	Lithuania	1996-1998		1, 3, 4, 7, 9, 11, 17, 20, 23, 24, 26, 28
Panduro Baron 2006 <sup>91</sup>	SB	Mexico	2001-2005		1, 4, 9, 10, 13, 17, 20, 23, 24, 26, 29
Romero Gutierrez 2004 <sup>101</sup>	SB	Mexico	1992-2002		1, 3, 9, 11, 17, 19, 23, 24, 26, 29

Van der Velde 1985 <sup>129</sup>	PD	Netherlands	1978-1979		61, 63, 68, 70, 78, 83, 85, 87, 89, 90
Verkerk 1994 <sup>130</sup>	SB	Netherlands	1978-1979		1, 3, 4, 7, 8, 10, 13, 18, 23, 25, 27, 29
Bailey 1970 <sup>4</sup>	PD	New Zealand	1969		61, 63, 67, 68, 70, 74, 75, 76, 77, 80, 83, 85, 87, 89, 90
McCowan 2007 <sup>77</sup>	SB	New Zealand	1993-2000		1,, 4, 7, 9, 10, 13, 17, 19, 23, 24, 26, 29
Froen 2001 <sup>36</sup>	SB	Norway	1986-1995	Medical Birth Registry of Norway (10)	1, 3, 7, 8, 10, 17, 19, 23, 24, 26, 29
Froen 2002 <sup>176</sup>	SB	Norway	1986-1995	Medical Birth Registry of Norway (10)	None
Froen 2004 <sup>37</sup>	SB	Norway	1986-1995	Medical Birth Registry of Norway (10)	14, 30
Dalaker 1984 <sup>22</sup>	PD	Norway	1978-1979		61, 63, 67, 68, 70, 78, 83, 85, 87, 88
Helgadottir 2011 <sup>47</sup>	SB	Norway	1990-2003	Venous Thromboembolism In Pregnancy (VIP) Study	1, 3, 7, 8, 11, 12, 17, 19, 23, 24, 26, 29
Tviet 2010 <sup>125</sup>	PD	Norway	2004-2005	Fetal Movement Intervention Assessment (Femina)	61, 64, 69, 71, 78, 83, 85, 86, 89
Palmgren 1971 <sup>177</sup>	SB / PD	Sweden	1964-1967	Department of Obstetrics, Helsingborg (11)	None
Palmgren 1973 <sup>90</sup>	SB / PD	Sweden	1964-1967	Department of Obstetrics, Helsingborg (11)	14, 30, 44, 60
Ahlenius 1999 <sup>178</sup>	SB	Sweden	1984-1991	Swedish Medical Birth Register (12)	None
Cnattingius 1988 <sup>179</sup>	SB / ND	Sweden	1983-1995	Swedish Medical Birth Register (12)	None
Cnattingius 1989 <sup>180</sup>	SB / ND	Sweden	1983-1995	Swedish Medical Birth Register (12)	None

Cnattingius 1992 <sup>181</sup>	SB / ND	Sweden	1983-1987	Swedish Medical Birth Register (12)	None
Cnattingius 1993 <sup>15</sup>	ND	Sweden	1983-1988	Swedish Medical Birth Register (12)	49
Cnattingius 1997 <sup>182</sup>	SB	Sweden	1983-1992	Swedish Medical Birth Register (12)	None
Cnattingius 1997 <sup>183</sup>	PD	Sweden	1987-1993	Swedish Medical Birth Register (12)	None
Cnattingius 1998 <sup>184</sup>	SB	Sweden	1983-1992	Swedish Medical Birth Register (12)	None
Cnattingius 1998 <sup>185</sup>	SB / ND	Sweden	1992-1993	Swedish Medical Birth Register (12)	None
Ericson 1991 <sup>186</sup>	SB / ND / PD	Sweden	1983-1987	Swedish Medical Birth Register (12)	None
Haglund 1993 <sup>187</sup>	SB / ND	Sweden	1985-1986	Swedish Medical Birth Register (12)	None
Hofvendahl 1995 <sup>188</sup>	SB / ND	Sweden	1983-1989	Swedish Medical Birth Register (12)	None
Hogberg 2007 <sup>51</sup>	SB	Sweden	1983-2001	Swedish Medical Birth Register (12)	2 91, 92, 93
Johansson 2009 <sup>55</sup>	ND	Sweden	1983-2002	Swedish Medical Birth Register (12)	32, 41, 42, 56, 58
Kallen 2001 <sup>56</sup>	SB / ND	Sweden	1983-1966	Swedish Medical Birth Register (12)	14, 30, 44, 60
Kyrklund-Blomberg 2001 <sup>189</sup>	PD	Sweden	1987-1993	Swedish Medical Birth Register (12)	None
Raymond 1994 <sup>190</sup>	SB	Sweden	1983-1989	Swedish Medical Birth Register (12)	None
Rydastroem 1996 <sup>108</sup>	SB / ND	Sweden	1983-1991	Swedish Medical Birth Register (12)	10, 27, 31, 33, 38, 40, 47, 50, 53, 55, 57, 59

Stephansson 2001 <sup>191</sup>	SB	Sweden	1987-1996	Swedish Medical Birth Register (12)	None
Stephansson 2001 <sup>192</sup>	SB	Sweden	1987-1996	Swedish Medical Birth Register (12)	None
Stephansson 2003 <sup>193</sup>	SB / ND	Sweden	1983-1997	Swedish Medical Birth Register (12)	None
Walles 1994 <sup>194</sup>	SB	Sweden	1983-1989	Swedish Medical Birth Register (12)	None
Winbo 2001 <sup>134</sup>	SB / PD	Sweden	1983-1995	Swedish Medical Birth Register (12)	1, 3, 7, 8, 11, 12, 17, 20, 23, 25, 26, 29, 61, 63, 67, 68, 71, 72, 74, 77, 80, 83, 85, 86, 87, 89, 90
Pettersson 2002 <sup>93</sup>	SB	Sweden	1998-1999	All fetal deaths in Stockholm County (13)	1, 3, 7, 8, 11, 12, 17, 19, 23, 25, 26, 29
Wikstrom 2010 <sup>132</sup>	SB	Sweden	1999-2006	All fetal deaths in Stockholm County (13)	14, 30
Ahlborg 1991 <sup>1</sup>	SB	Sweden	1980-1983		14, 15, 16, 21, 30
Hogberg 1990 <sup>50</sup>	PD	Sweden	1980-1984		74, 90
Kullander 1971 <sup>65</sup>	SB / ND / PD	Sweden	1963-1964		1, 3, 7, 8, 10, 18, 23, 25, 27, 29, 31, 33, 38, 40, 47, 49, 53, 55, 57, 59, 61, 63, 67, 68, 70, 83, 85, 87, 89
Sandahl 1989 <sup>112</sup>	SB	Sweden	1980-1985		1, 3, 7, 8, 11, 12, 17, 19, 23, 24, 26, 29
Uncu 2005 <sup>126</sup>	SB	Turkey	2004		1, 3, 9, 10, 13, 18, 21, 23, 25, 27, 28
Bonham 1965 <sup>195</sup>	PD	U.K.	1958	British Perinatal Mortality Survey of the National Birthday Trust Fund (14)	None
Butler 1969 <sup>12</sup>	SB / ND /	U.K.	1958	British Perinatal Mortality	25, 27, 49, 55, 57

	PD			Survey of the National Birthday Trust Fund (14)	
Butler 1972 <sup>13</sup>	SB / ND / PD	U.K.	1958	British Perinatal Mortality Survey of the National Birthday Trust Fund (14)	1, 3, 7, 9, 10, 13, 17, 20, 23, 24, 26, 28, 31, 33, 39, 40, 43, 47, 50, 53, 53, 56, 58, 61, 63, 67, 69, 70, 73, 74, 75, 76, 77, 80, 83, 84, 86, 88, 90
Golding 1986 <sup>196</sup>	PD	U.K.	1970	1970 British Birth Cohort (15)	None
Rush 1983 <sup>105</sup>	PD	U.K.	1970	1970 British Birth Cohort (15)	62, 90
Tuthill 1999 <sup>124</sup>	SB / ND / PD	U.K.	1993-1995	All Wales Perinatal Survey and Cardiff Births Survey	1, 3, 7, 8, 11, 17, 19, 23, 24, 26, 29, 31, 33, 38, 41, 48, 50, 53, 54, 56, 59, 61, 63, 67, 68, 71, 77, 79, 83, 84, 86, 89
Cardozo 1982 <sup>14</sup>	SB / ND	England	1981		74, 90
Donovan 1977 <sup>25</sup>	PD	England	1972		61, 62, 63, 67, 68, 70, 78, 83, 85, 87, 89
Gardosi 1998 <sup>40</sup>	SB	England	1988-1995	Trent Regional Epidemiological Survey	1, 3, 7, 8, 10, 16, 17, 20, 23, 24, 26, 28
Lowe 1959 <sup>69</sup>	PD	England	1958		61, 63, 67, 69, 70, 73, 78, 83, 85, 87, 88
Geary 1997 <sup>41</sup>	SB	Ireland	1989-1991		1, 3, 7, 9, 10, 13, 15, 16, 18, 23, 24, 26, 29, 30
Murphy 1974 <sup>85</sup>	SB / ND	Ireland	1969-1973		14, 15, 16, 30, 44, 45, 46, 60
Black 2008 <sup>11</sup>	History of SB	Scotland	1947-2002	Aberdeen Maternity and Neonatal Databank (16)	5
Hall 1992 <sup>45</sup>	SB / ND / PD	Scotland	1980-1989	Aberdeen Maternity and Neonatal Databank (16)	1, 3, 7, 8, 10, 17, 20, 23, 25, 27, 29, 31, 33, 38, 40, 47, 50, 53, 55, 57, 59, 61, 67, 68, 70, 77, 80, 83,



					85, 87, 89
Martin 2000 <sup>76</sup>	PD	Scotland	1969-1997	Aberdeen Maternity and Neonatal Databank (16)	78
Smith 2007 <sup>117</sup>	SB	Scotland	1992-2001	Scottish Stillbirth and Neonatal Death Enquiry (17)	8, 12, 20, 27
Sutan 2010 <sup>120</sup>	SB	Scotland	1994-2003	Scottish Stillbirth and Neonatal Death Enquiry (17)	1, 2, 3, 4, 7, 9, 10, 11, 13, 17, 19, 23, 25, 26, 29
Andrews 1972 <sup>3</sup>	PD	Wales	1965-1968	Cardiff Births Survey (18)	61, 63, 67, 69, 70, 73, 75, 76, 77, 80, 83, 85, 87, 89, 90
Rush 1990 <sup>107</sup>	PD	Wales	1965-1977	Cardiff Births Survey (18)	62, 74
Faden 1997 <sup>31</sup>	SB	U.S.	1988	National Maternal and Infant Health Survey (19)	1, 3, 7, 9, 11, 17, 20, 22, 24, 26, 29, 30
Wu 1998 <sup>139</sup>	SB	U.S.	1988	National Maternal and Infant Health Survey (19)	14, 15, 16
Salihu 2003 <sup>109</sup>	ND	U.S.	1997	National linked birth/infant death data set (20)	31, 33, 39, 41, 47, 50, 52, 55, 56, 58
Salihu 2004 <sup>110</sup>	SB / ND	U.S.	1995-1997	National linked birth/infant death data set (20)	1, 3, 7, 9, 11, 17, 19, 22, 25, 26, 27, 29
Gallicchio 2009 <sup>39</sup>	SB	U.S.	1965-2008		1, 3, 7, 9, 11, 17, 19, 22, 25, 26, 29
Hoyert 1996 <sup>52</sup>	SB	U.S.	1989-1990		1, 3, 7, 9, 10, 13, 14, 17, 19, 22, 24, 26, 29, 30
Little 1993 <sup>68</sup>	SB	U.S.	1980	National Natality Survey and the National Fetal Mortality Survey	16, 30
Reddy 2010 <sup>99</sup>	SB	U.S.	2002-2008	Consortium on Safe Labor	1, 4, 7, 9, 11, 17, 19, 22, 25, 26, 27, 28
Niswander 1972 <sup>86</sup>	SB / ND/ PD	U.S.	1959-1965	Collaborative Perinatal Project (21)	14, 15, 16, 30, 44, 45, 46, 60, 74, 75, 76, 90

Hardy 1972 <sup>197</sup>	SB / ND / PD	U.S. - Maryland	1962-1963	Collaborative Perinatal Project (21)	None
Copper 1994 <sup>20</sup>	SB	U.S.	1982-1986	March of Dimes Multicenter Preterm Birth Prevention Project (MODMPBPP)	1, 3, 7, 8, 11, 12, 17, 19, 22, 25, 26, 29
English 1992 <sup>28</sup>	PD	California	1959-1966	Kaiser Foundation Health Plan Child Health and Development Studies (22)	61, 63, 67, 68, 70, 77, 80, 82, 85, 87, 89
Yerushalmy 1964 <sup>141</sup>	ND	California	1959-1963	Kaiser Foundation Health Plan Child Health and Development Studies (22)	44, 45, 46, 58, 60
Yerushalmy 1971 <sup>142</sup>	ND	California	1960-1967	Kaiser Foundation Health Plan Child Health and Development Studies (22)	31, 32, 33, 38, 40, 48, 50, 52, 55, 57, 59
Downing 1966 <sup>26</sup>	SB / ND / PD	California	1952-1958		1, 3, 7, 8, 10, 18, 22, 25, 27, 29, 31, 33, 38, 40, 48, 50, 52, 55, 57, 59, 61, 63, 67, 68, 70, 78, 82, 85, 87, 89
Kharazzi 2004 <sup>59</sup>	SB	California	1992		21
Pastore 1997 <sup>92</sup>	PD	California	1984		61, 63, 67, 69, 71, 74, 75, 76, 77, 79, 83, 84, 86, 89, 90
Raymond 1993 <sup>98</sup>	PD	California	1974-1977	Kaiser Permanente Birth Defects Study	74, 76, 90
Lynch 2007 <sup>72</sup>	PD	Colorado	1994-2001		61, 63, 67, 69, 70, 73, 77, 79, 82, 85, 86, 89
Lubs 1973 <sup>70</sup>	ND / history of SB	Connecticut	1942-1971		5, 31, 33, 39, 40, 43, 48, 50, 52, 55, 57, 58
Kistin 1996 <sup>60</sup>	PD	Illinois	1988		61, 64, 67, 69, 71, 78, 82, 85, 86, 87, 88

Comstock 1967 <sup>16</sup>	SB / ND	Maryland	1953-1963	Washington County Live Birth, Death, and Stillbirth Certificates (23)	1, 4, 7, 9, 10, 13, 18, 22, 24, 26, 54, 56
Comstock 1971 <sup>17</sup>	ND	Maryland	1953-1963	Washington County Live Birth, Death, and Stillbirth Certificates (23)	31, 34, 39, 40, 43, 47, 50, 52, 55, 57, 59
Frazier 1961 <sup>34</sup>	SB / ND	Maryland	1959		1, 3, 7, 8, 10, 18, 22, 25, 27, 28, 31, 33, 38, 40, 48, 50, 52, 55, 57, 58
Aliyu 2007 <sup>198</sup>	SB	Missouri	1978-1997	Missouri maternally linked cohort (24)	None
Aliyu 2008 <sup>2</sup>	SB	Missouri	1978-1997	Missouri maternally linked cohort (24)	1, 3, 7, 9, 11, 17, 19, 22, 25, 26, 28
Aliyu 2010 <sup>199</sup>	SB	Missouri	1978-1997	Missouri maternally linked cohort (24)	None
Aliyu 2011 <sup>200</sup>	SB	Missouri	1989-2005	Missouri maternally linked cohort (24)	None
Kleinman 1988 <sup>62</sup>	ND	Missouri	1979-1983	Missouri maternally linked cohort (24)	46
Malloy 1988 <sup>75</sup>	ND	Missouri	1979-1983	Missouri maternally linked cohort (24)	41, 48, 56, 59
Salihu 2008 <sup>111</sup>	SB	Missouri	1978-1997	Missouri maternally linked cohort (24)	14, 15, 16, 24, 29, 30
Schramm 1980 <sup>115</sup>	SB / ND / PD	Missouri	1978	Missouri maternally linked cohort (24)	10, 13, 31, 33, 39, 40, 43, 47, 50, 52, 55, 57, 58, 61, 63, 67, 69, 70, 73, 77, 79, 82, 85, 87, 88
Schramm 1997 <sup>116</sup>	SB / ND	Missouri	1978-1990	Missouri maternally linked cohort (24)	2, 32, 91, 92, 93
Wilcox 1993 <sup>133</sup>	PD	Missouri	1980-1984	Missouri maternally linked cohort (24)	76

Ogunyemi 1998 <sup>88</sup>	SB	New Jersey	1985-1995		1, 4, 7, 9, 10, 13, 17, 20, 22, 24, 26, 29
Savel 1962 <sup>113</sup>	SB / ND / PD	New Jersey	1961-1961		1, 3, 9, 10, 13, 14, 15, 16, 18, 22, 25, 27, 29, 30, 31, 33, 39, 40, 43, 44, 45, 46, 47, 49, 52, 55, 57, 59, 60, 61, 63, 67, 69, 70, 73, 74, 75, 76, 78, 82, 85, 87, 89, 90
Scholl 1986 <sup>114</sup>	SB / PD	New Jersey	1982-1984	Camden County Adolescent Family Life Demonstration Project	1, 3, 8, 10, 18, 22, 25, 27, 29, 61, 63, 67, 68, 71, 72, 78, 82, 85, 86, 89
Rush 1972 <sup>104</sup>	SB / ND / PD	Massachusetts	1961-1962		1, 3, 7, 8, 10, 17, 19, 22, 25, 27, 29, 31, 33, 38, 40, 47, 50, 52, 55, 57, 59, 61, 63, 67, 68, 70, 77, 79, 83, 85, 87, 89
Wang 1997 <sup>131</sup>	History of SB	Massachusetts	1957-1992	Maternal-Child Lung Study	5
Underwood 1965 <sup>127</sup>	SB	South Carolina	1931-1961		14, 15, 16, 30
Underwood 1967 <sup>128</sup>	SB / ND / PD	South Carolina	1963-1965		1, 3, 7, 8, 10, 18, 22, 25, 27, 29, 31, 33, 28, 40, 48, 50, 52, 55, 57, 59, 61, 63, 67, 68, 70, 78, 82, 85, 87, 89
Kizer 1967 <sup>61</sup>	PD	Venezuela	1966-1967		61, 63, 67, 68, 70, 78, 83, 85, 87, 89

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For a description of analyses by number, see Appendix below.

ND, neonatal death; PD, perinatal death; SB, stillbirth.

<sup>a</sup> Sets of studies with duplicated data were identified based on studies being conducted in the same country, using the same registry, hospital, or city population, and during the same years. To prevent analysis of duplicated data, only one study was chosen from each set for a single analysis, and 34 studies from these sets were not used in any analysis.

<sup>b</sup> Each study was used in multiple analyses; see Web Table 3 for analysis descriptions

**Appendix to Web Table 3.** Description of analyses by number used in Web Table 3

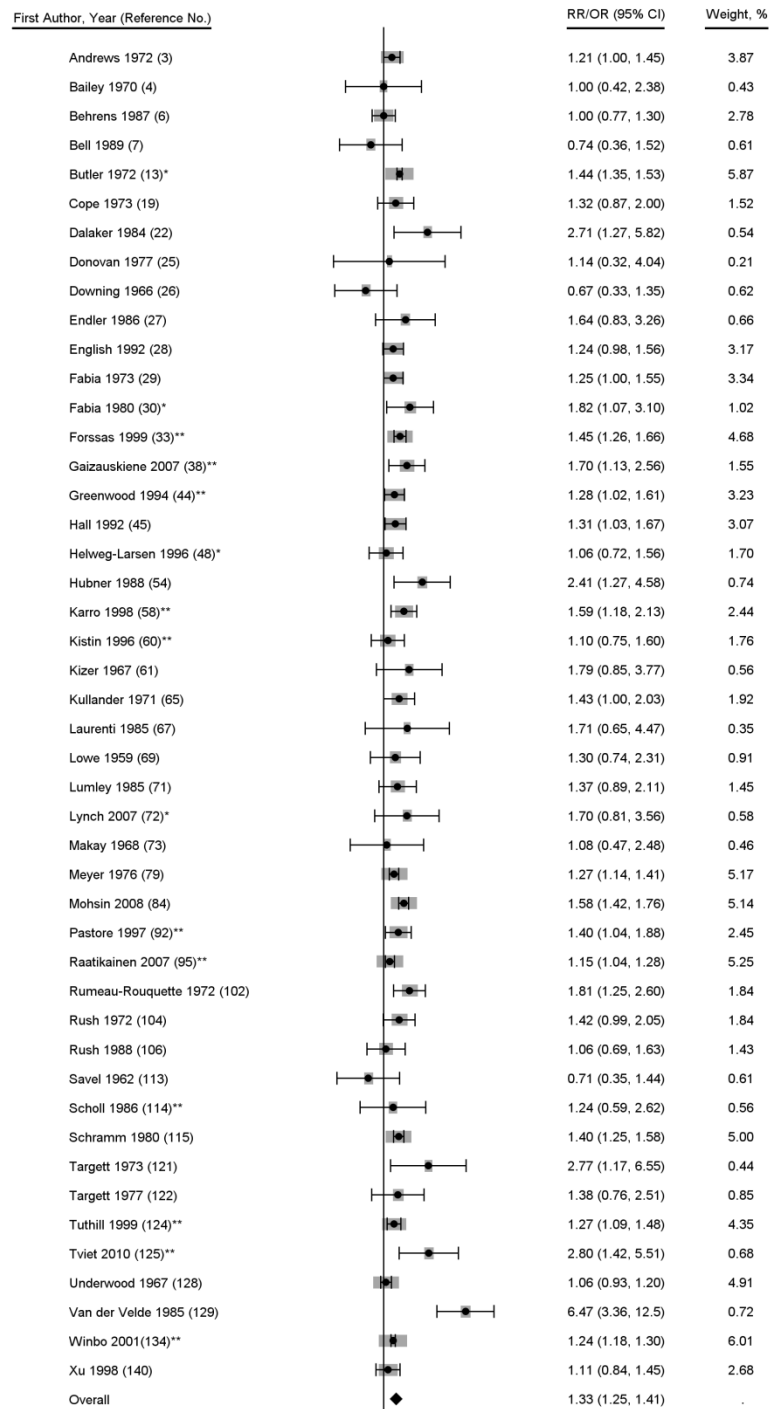
<b>Analysis Number</b>	<b>Analysis</b>
1, 31, 61	Risk of SB/ND/PD for active smokers compared to nonsmokers
2, 32, 62	Risk of SB/ND/PD for ex-smokers and those who quit around the time of conception compared to nonsmokers
3, 33, 63	Risk of SB/ND/PD for active smokers compared to nonsmokers in studies that defined the smoking exposure they used as during the pregnancy for which SB/ND/PD risk was measured
4, 34, 64	Risk of SB/ND/PD for active smokers compared to nonsmokers in studies with exposure definitions lacking a specified time in relation to pregnancy
5, 35, 65	Risk of a history of SB/ND/PD for active smokers compared to nonsmokers
6, 36, 66	Risk of a history of SB/ND/PD for ex-smokers compared to nonsmokers
7, 37, 67	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies with the logarithm of the relative risk <1
8, 38, 68	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including prospective studies
9, 39, 69	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including retrospective studies
10, 40, 70	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including crude (non-adjusted) relative risks
11, 41, 71	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including adjusted relative risks
12, 42, 72	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies with the lowest risk of bias
13, 43, 73	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies with the highest risk of bias

14, 44, 74	Risk of SB/ND/PD for active smokers who smoke 1-10 cigarettes per day compared to nonsmokers
15, 45, 75	Risk of SB/ND/PD for active smokers who smoke 11-20 cigarettes per day compared to nonsmokers
16, 46, 76	Risk of SB/ND/PD for active smokers who smoke $\geq 21$ cigarettes per day compared to nonsmokers
17, 47, 77	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies with SB/ND/PD outcomes defined by gestational or postnatal age thresholds
18, 48, 78	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies with SB/ND/PD outcomes not defined by gestational or postnatal age thresholds
19, 79	Risk of SB/PD for active smokers compared to nonsmokers, only including studies with SB/ND/PD outcomes defined by gestational age minima of 20-23 weeks
49	Risk of ND for active smokers compared to nonsmokers, with ND defined as "early neonatal death" or $\leq 8$ days
20, 80	Risk of SB/PD for active smokers compared to nonsmokers, only including studies with SB/ND/PD outcomes defined by gestational age minima of 24 weeks or higher
50	Risk of ND for active smokers compared to nonsmokers, with ND defined as $\leq 28$ to $\leq 30$ days or not defined by postnatal age
21, 51, 81	Risk of SB/ND/PD for women exposed to secondhand smoke compared to women not exposed to secondhand smoke
22, 52, 82	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies conducted in the U.S.
23, 53, 83	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies conducted outside the U.S.
24, 54, 84	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including case-control studies
25, 55, 85	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including cohort studies

26, 56, 86	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies reporting odds ratios
27, 57, 87	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies reporting risk, rate, or hazard ratios
28, 58, 88	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies that analyzed one pregnancy per woman and excluded twins
29, 59, 89	Risk of SB/ND/PD for active smokers compared to nonsmokers, only including studies that did not describe analyzing one pregnancy per woman and excluding twins
30, 60, 90	Risk of SB/ND/PD for active smokers compared to nonsmokers based on number of cigarettes per day
91	Risk of stillbirth in the second pregnancy analyzed for women smoking during the first, but not the second pregnancy analyzed compared to women not smoking during either pregnancy
92	Risk of stillbirth in the second pregnancy analyzed for women smoking during the second, but not the first pregnancy analyzed compared to women not smoking during either pregnancy
93	Risk of stillbirth in the second pregnancy analyzed for women smoking during both the first and second pregnancies analyzed compared to women not smoking during either pregnancy

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ND, neonatal death; PD, perinatal death; SB, stillbirth.





**Web Figure 1.** Forest plot for the association of any active maternal smoking and risk of perinatal death. Gray boxes represent the weight of the study in the meta-analysis. Studies with asterisks have unadjusted odds ratios (ORs) presented; studies with two asterisks have adjusted ORs presented; studies without asterisks have unadjusted relative risks (RRs) presented. Bars, 95% confidence intervals (CIs).

First Author, Year (Reference No.)	RR/OR (95% CI)	Weight, %
Aliyu 2008 (2)**	1.30 (1.20, 1.40)	4.78
Behrens 1987 (6)	1.67 (1.18, 2.35)	1.79
Bernhard 1964 (9)	2.20 (1.18, 4.11)	0.71
Beyerlein 2010 (10)**	1.18 (1.11, 1.26)	4.92
Butler 1972 (13)*	1.38 (1.28, 1.48)	4.84
Comstock 1967 (16)*	1.01 (0.70, 1.46)	1.62
Conde-Agudelo 2000 (18)**	1.04 (0.91, 1.19)	4.04
Cope 1973 (19)	1.62 (0.96, 2.75)	0.95
Copper 1994 (20)**	1.50 (1.09, 2.07)	1.94
Downing 1966 (26)	1.80 (0.67, 4.86)	0.31
Fabia 1973 (29)	1.37 (0.80, 2.34)	0.92
Fabia 1980 (30)*	7.63 (2.16, 27.0)	0.19
Faden 1997 (31)**	1.23 (1.01, 1.50)	3.21
Ferraz 1991 (32)*	1.10 (0.83, 1.45)	2.32
Frazier 1961 (34)	2.42 (1.13, 5.20)	0.50
Frkovic 1990 (35)	1.79 (1.09, 2.96)	1.03
Froen 2001 (36)*	1.79 (1.32, 2.45)	2.05
Gallicchio 2009 (39)**	2.20 (0.89, 5.43)	0.37
Gardosi 1988 (40)*	1.61 (1.16, 2.24)	1.88
Geary 1997 (41)*	1.13 (0.44, 2.88)	0.34
Goy 2008 (42)**	2.06 (1.22, 3.47)	0.96
Greenwood 1994 (44)**	1.47 (1.08, 2.00)	2.08
Hall 1992 (45)	1.41 (0.52, 3.78)	0.31
Helgadottir 2011 (47)**	2.60 (1.86, 3.63)	1.87
Hiltunen 2010 (49)**	1.80 (0.77, 4.22)	0.41
Hoyert 1996 (52)*	1.36 (1.32, 1.39)	5.19
Kaminski 1978 (57)	2.57 (1.65, 4.00)	1.25
Kullander 1971 (65)	1.34 (0.82, 2.17)	1.08
Lauenborg 2003 (66)*	5.71 (2.11, 15.5)	0.31
Laurenti 1985 (67)	1.64 (0.41, 6.51)	0.16
Maleckiene 2001 (74)**	2.60 (0.68, 9.92)	0.17
McCowan 2007 (77)**	1.49 (1.14, 1.95)	2.41
Meyer 1977 (80)	1.34 (1.10, 1.62)	3.27
Miller 2010 (81)**	1.58 (1.38, 1.81)	4.04
Mohsin 2006 (83)**	1.51 (1.38, 1.64)	4.68
Ogunyemi 1998 (88)*	2.34 (1.10, 4.98)	0.51
Olsen 1999 (89)	1.97 (1.64, 2.36)	3.40
Panduro Baron 2006 (91)*	0.74 (0.43, 1.27)	0.91
Petersson 2002 (93)**	1.69 (1.13, 2.52)	1.45
Raatikainen 2007 (95)	0.75 (0.39, 1.45)	0.65
Rantakallio 1978 (97)	1.10 (0.61, 1.97)	0.79
Reddy 2010 (99)**	1.60 (1.21, 2.12)	2.31
Romero Gutierrez 2004 (101)**	9.10 (1.07, 77.7)	0.07
Rush 1972 (104)	1.67 (1.01, 2.77)	1.03
Salih 2004 (110)**	1.62 (1.38, 1.91)	3.67
Sandahl 1989 (112)**	1.33 (0.80, 2.21)	1.01
Savel 1962 (113)	0.78 (0.30, 2.04)	0.33
Scholl 1986 (114)	4.00 (0.76, 21.1)	0.11
Strandberg-Larsen 2008 (118)**	1.46 (1.17, 1.82)	2.92
Sutan 2010 (120)**	1.64 (1.38, 1.95)	3.53
Tuthill 1999 (124)**	1.50 (1.24, 1.81)	3.30
Uncu 2005 (126)	13.3 (1.42, 126)	0.06
Underwood 1967 (128)	1.04 (0.86, 1.25)	3.28
Verkerk 1994 (130)	2.04 (0.58, 7.23)	0.19
Winbo 2001(134)**	1.09 (0.41, 2.93)	0.31
Wisberg 2001 (135)**	1.90 (1.27, 2.84)	1.45
Wood 2008 (138)**	1.04 (0.74, 1.47)	1.80

**Web Figure 2.** Forest plot for the association of any active maternal smoking and risk of stillbirth. Gray boxes represent the weight of the study in the meta-analysis. Studies with asterisks have unadjusted odds ratios (ORs) presented; studies with two asterisks have adjusted ORs presented; studies without asterisks have unadjusted relative risks (RRs) presented. Bars, 95% confidence intervals (CIs).

First Author, Year (Reference No.)

RR/OR (95% CI)

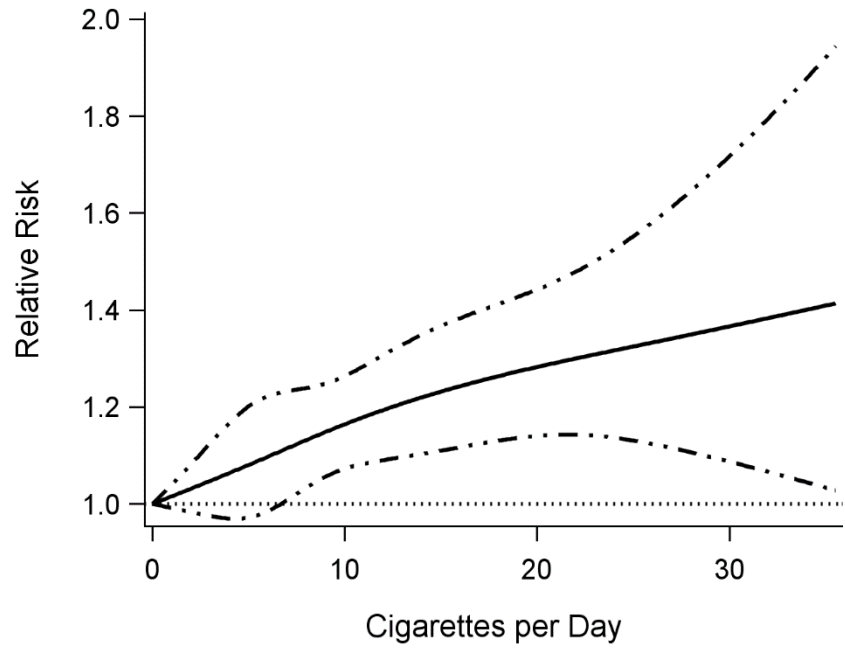
Weight, %

Behrens 1987 (6)	1.00 (0.66, 1.52)	2.10
Butler 1972 (13)*	1.34 (1.23, 1.46)	10.97
Comstock 1971 (17)	1.40 (1.07, 1.82)	4.28
Cope 1973 (19)	0.96 (0.48, 1.91)	0.86
Cuk 2000 (21)	0.83 (0.62, 1.12)	3.70
Downing 1966 (26)	0.63 (0.20, 1.96)	0.33
Fabia 1973 (29)	1.12 (0.65, 1.95)	1.29
Fabia 1980 (30)	0.82 (0.34, 2.02)	0.52
Frazier 1961 (34)	1.18 (0.73, 1.90)	1.68
Gray 1991 (43)*	1.50 (1.14, 1.97)	4.08
Hall 1992 (45)	2.58 (0.16, 41.2)	0.06
Kullander 1971 (65)	1.55 (0.92, 2.61)	1.43
Laurenti 1985 (67)	1.80 (0.45, 7.16)	0.23
Lubs 1973 (70)	1.33 (0.82, 2.17)	1.63
Meyer 1977 (80)	1.21 (0.99, 1.46)	6.24
Mohsin 2006 (83)**	1.40 (1.22, 1.60)	8.66
Olsen 1999 (89)	1.45 (1.17, 1.79)	5.67
Raatikainen 2007 (95)**	0.84 (0.44, 1.61)	0.96
Rantakallio 1978 (97)	1.09 (0.62, 1.91)	1.25
Rumeau-Rouquette 1974 (103)	1.18 (0.59, 2.36)	0.86
Rush 1972 (104)	1.18 (0.68, 2.03)	1.33
Rydstroem 1996 (108)	1.36 (1.16, 1.61)	7.35
Salihu 2003 (109)**	1.11 (1.03, 1.20)	11.41
Savel 1962 (113)	0.62 (0.21, 1.84)	0.36
Schramm 1980 (115)	1.36 (1.16, 1.60)	7.43
Tuthill 1999 (124)**	0.96 (0.74, 1.24)	4.51
Underwood 1967 (128)	1.07 (0.91, 1.26)	7.38
Yerushalmy 1971 (142)	1.07 (0.79, 1.46)	3.44
Overall	1.22 (1.14, 1.30)	.

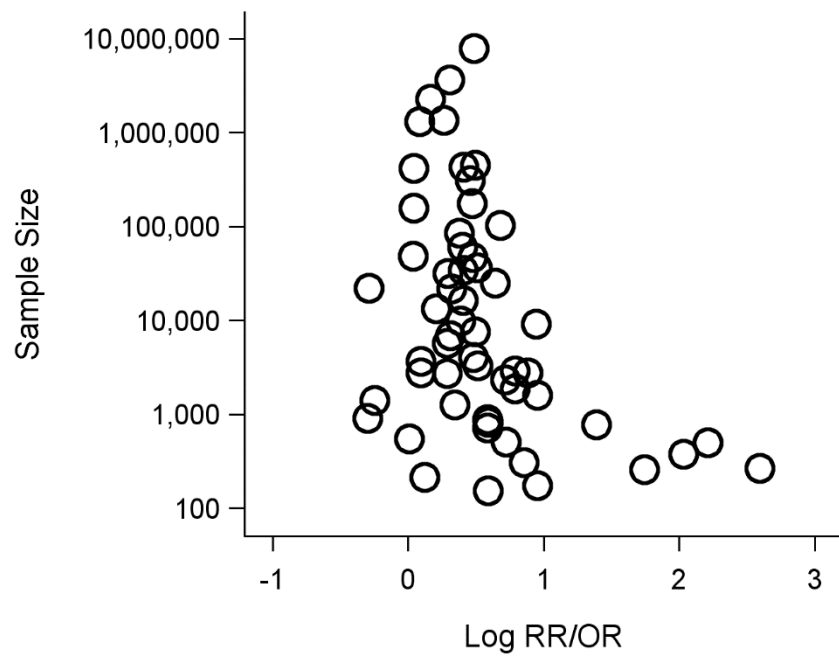
0.1 1 10

Relative Risk Ratio

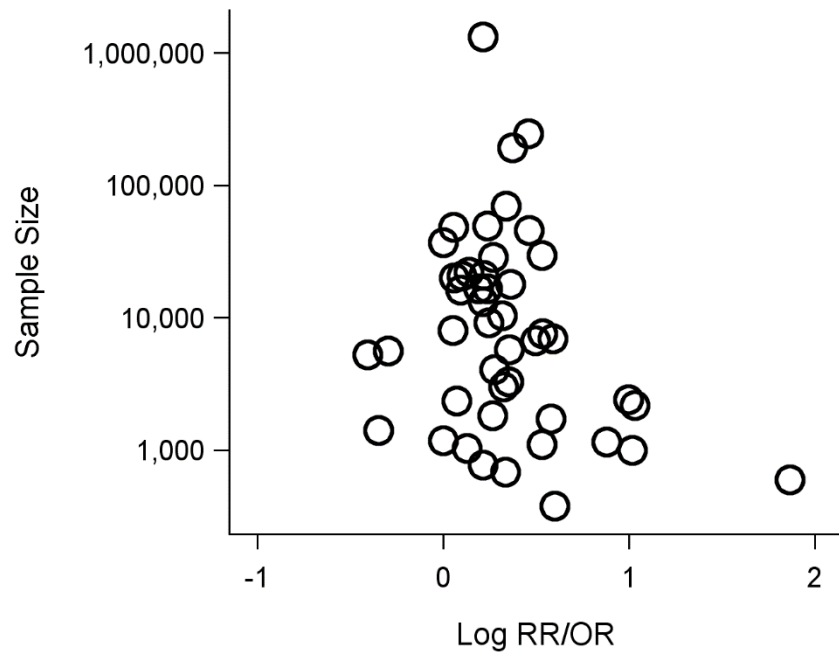
**Web Figure 3.** Forest plot for the association of any active maternal smoking and risk of neonatal death. Gray boxes represent the weight of the study in the meta-analysis. Studies with asterisks have unadjusted odds ratios (ORs) presented; studies with two asterisks have adjusted ORs presented; studies without asterisks have unadjusted relative risks (RRs) presented. Bars, 95% confidence intervals (CIs).



**Web Figure 4.** Relative risk of perinatal death versus number of cigarettes smoked per day using 22 studies and 62 data points, excluding open-ended categories of cigarettes per day (1 study and 22 data points).

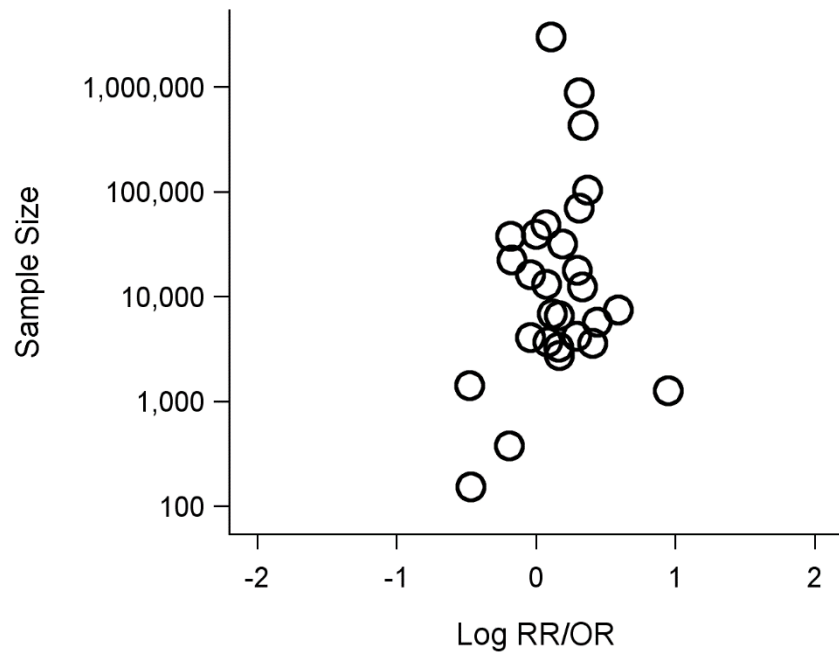


**Web Figure 5.** Funnel plot for studies that analyzed any active smoking and the risk of stillbirth. OR, odds ratio; RR, relative risk.

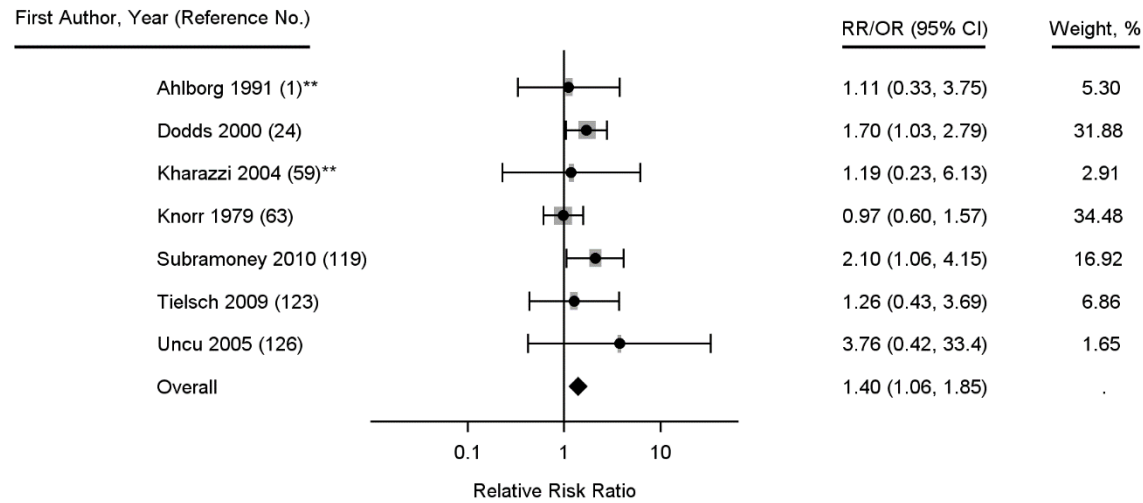


**Web Figure 6.** Funnel plot for studies that analyzed any active smoking and the risk of perinatal death. OR, odds ratio; RR, relative risk.

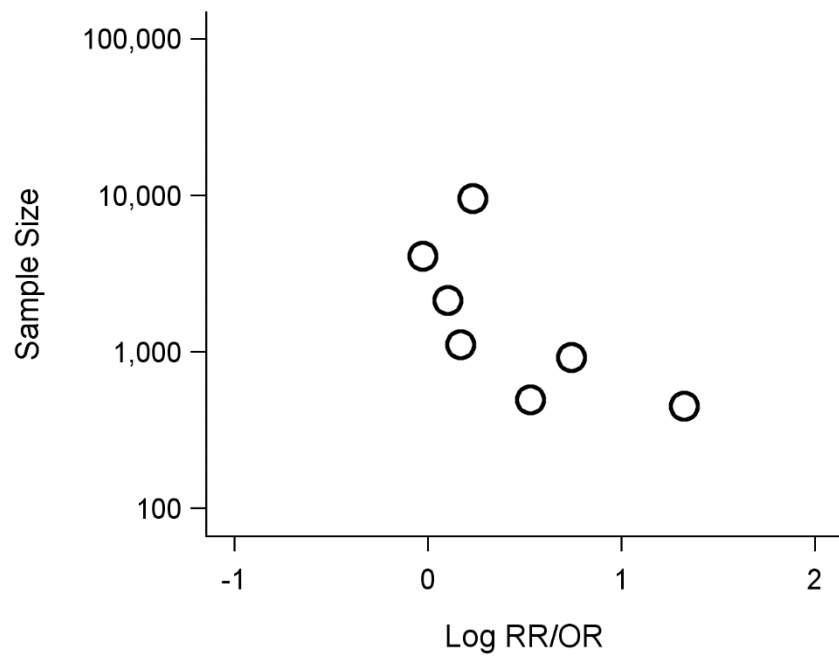




**Web Figure 7.** Funnel plot for studies that analyzed any active smoking and the risk of neonatal death. OR, odds ratio; RR, relative risk.



**Web Figure 8.** Forest plot for the association of any maternal SHS exposure and risk of stillbirth. Gray boxes represent the weight of the study in the meta-analysis. Studies with asterisks have unadjusted odds ratios (ORs) presented; studies with two asterisks have adjusted ORs presented; studies without asterisks have unadjusted relative risks (RRs) presented. Bars, 95% confidence intervals (CIs).



**Web Figure 9.** Funnel plot for studies that analyzed any SHS exposure and the risk of stillbirth. OR, odds ratio; RR, relative risk.

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