

Table S3: Included studies of preterm birth in China, 1990-2016

Included studies	Midpoint year of data collection	Administration region of China	Livebirths/ All births/ Unknown births*	Singletons or multiples	Method of estimating GA (Ultrasound/LMP/Both/Unknown) ‡	Total births	Study design†	Quality score
Han W et al (2011) <sup>24</sup>	2006	Central	all	both	both	26760	cohort	5
He Y et al (2014) <sup>25</sup>	2010	Central	live	singletons	UK	6102	cohort	7
Xu X et al (2014) <sup>26</sup>	2011	Central	live	UK	UK	6270	cohort	8
Xu H et al (2015) <sup>27</sup>	2007	Central	live	both	both	818481	XS	6
Guo Y et al (2015) <sup>28</sup>	2012	Central	UK	singletons	both	1031	cohort	6
Qian ZM et al (2016) <sup>29</sup>	2012	Central	live	singletons	LMP	95911	cohort	7
Yang J et al (2016) <sup>30</sup>	2013	Central	live	singletons	both	5364	cohort	6
Zhang B et al (2016) <sup>31</sup>	2012	Central	live	singletons	both	76695	cohort	7
Hu RY et al (2017) <sup>32</sup>	2013	Central	live	singletons	both	317463	cohort	6
Chen X et al (2018) <sup>33</sup>	2013	Central	live	singletons	ultrasound	7291	cohort	7
Huang X et al (2018) <sup>34</sup>	2016	Central	live	singletons	UK	16780	cohort	5
Huo W et al (2018) <sup>35</sup>	2014	Central	UK	UK	LMP	1006	cohort	7
Li H et al (2018) <sup>36</sup>	2013	Central	live	singletons	LMP	11070	cohort	7
Li X et al (2018) <sup>37</sup>	2010	Central	live	singletons	both	6059	cohort	6
Li XY et al (2018) <sup>38</sup>	2015	Central	live	singletons	LMP	16035	cohort	5
Yang J et al (2018) <sup>39</sup>	2015	Central	UK	singletons	UK	2347	cohort	6
Xu X et al (1994) <sup>40</sup>	1992	East	live	both	UK	795	XS	4

Li Z et al (2014) <sup>41</sup>	1994	East	live	singletons	LMP	207936	cohort	5
Zhang Q et al (2009) <sup>42</sup>	1995	East	live	singletons	LMP	160700	cohort	7
Ye RW et al (2010) <sup>43</sup>	1998	East	live	singletons	UK	131867	cohort	7
Guo LJ et al (2009) <sup>44</sup>	1998	East	live	singletons	UK	97447	cohort	7
Gu WR et al (2008) <sup>45</sup>	2000	East	all	both	UK	24199	XS	6
Ma X et al (2009) <sup>46</sup>	2007	East	live	UK	LMP	44362	XS	5
Li Y et al (2014) <sup>47</sup>	2011	East	live	singletons	UK	592	cohort	6
Yan SQ et al (2013) <sup>48</sup>	2009	East	live	singletons	UK	4448	cohort	6
Tong JG et al (2013) <sup>49</sup>	2010	East	live	singletons	UK	2409	XS	7
Sun L et al (2013) <sup>50</sup>	2010	East	live	both	LMP	60280	XS	7
Sun LY et al (2014) <sup>51</sup>	2010	East	all	both	UK	60615	XS	7
Ge X et al (2016) <sup>52</sup>	2014	East	live	singletons	both	3197	cohort	6
Cui AM et al (2016) <sup>53</sup>	2013	East	UK	UK	UK	21004	cohort	7
Ding XX et al (2016) <sup>54</sup>	2009	East	live	singletons	both	10251	cohort	7
Wang H et al (2016) <sup>55</sup>	2009	East	live	singletons	LMP	3254	cohort	7
Xue QQ et al (2016) <sup>56</sup>	2011	East	live	both	UK	37443	XS	6
Zhou SS et al (2016) <sup>57</sup>	2013	East	live	singletons	both	3256	cohort	7
Liu A et al (2017) <sup>58</sup>	2013	East	live	UK	UK	195400	XS	3
Reyihanguli M et al (2017) <sup>59</sup>	2014	East	live	singletons	both	2758	cohort	6
Wang JX et al (2017) <sup>60</sup>	2012	East	live	singletons	UK	2108	XS	4
Wang JX et al (2017) <sup>60</sup>	2013	East	live	singletons	UK	2010	XS	4
Wang JX et al (2017) <sup>60</sup>	2014	East	live	singletons	UK	2112	XS	4
Wang JX et al (2017) <sup>60</sup>	2015	East	live	singletons	UK	1975	XS	4
Wang JX et al (2017) <sup>60</sup>	2011	East	live	singletons	UK	1630	XS	4

Wang JX et al (2017) <sup>60</sup>	2016	East	live	singletons	UK	2206	XS	4
Wang S et al (2017) <sup>61</sup>	2012	East	UK	UK	UK	10933	cohort	5
Zhang Y et al (2017) <sup>62</sup>	2014	East	UK	singletons	both	5737	cohort	2
Zhang Y et al (2017) <sup>62</sup>	2015	East	UK	singletons	both	5269	cohort	2
Han Y et al (2018) <sup>63</sup>	2013	East	UK	singletons	both	2931	cohort	7
Han Y et al (2018) <sup>64</sup>	2015	East	live	singletons	UK	6693	cohort	5
Hu CY et al (2018) <sup>65</sup>	2012	East	UK	UK	both	16983	XS	8
Lin XY et al (2018) <sup>66</sup>	2014	East	live	singletons	both	49612	cohort	7
Liu WY et al (2018) <sup>67</sup>	2015	East	live	singletons	LMP	37159	XS	5
Shi WP et al (2018) <sup>68</sup>	2016	East	UK	singletons	both	1064	cohort	6
Wang H et al (2018) <sup>69</sup>	2015	East	all	UK	LMP	59190	XS	5
Wang Y et al (2018) <sup>70</sup>	2015	East	UK	UK	UK	15615	cohort	3
Xiao QY et al (2018) <sup>71</sup>	2012	East	live	singletons	LMP	132783	XS	6
Yang J et al (2018) <sup>72</sup>	2007	East	live	singletons	UK	500	cohort	4
Ye L et al (2018) <sup>73</sup>	2014	East	live	singletons	UK	24246	cohort	6
Li ZJ et al (2019) <sup>74</sup>	2013	East	live	singletons	both	3240	cohort	5
Chen TJ et al (1996) <sup>75</sup>	1992	Hong Kong, Macau and Taiwan	live	singletons	LMP	14307	XS	4
Lao TT et al (1997) <sup>76</sup>	1994	Hong Kong, Macau and Taiwan	UK	UK	UK	67925	XS	4
Chen YH et al (2009) <sup>77</sup>	2002	Hong Kong, Macau and Taiwan	live	singletons	ultrasound	28135	cohort	6
Hsieh WS et al (2011) <sup>78</sup>	2001	Hong Kong, Macau and Taiwan	live	singletons	LMP	1312770	cohort	6
Leung T et al (2008) <sup>79</sup>	2000	Hong Kong, Macau and Taiwan	all	singletons	UK	29303	cohort	5
Shiao LW et al (2012) <sup>80</sup>	2005	Hong Kong, Macau and Taiwan	live	both	both	20090	cohort	7
Liu CY et al (2008) <sup>81</sup>	2005	Hong Kong, Macau and Taiwan	all	singletons	UK	27077	XS	5
Xirasagar S et al (2011) <sup>82</sup>	2005	Hong Kong, Macau and Taiwan	live	singletons	both	3267	cohort	6

Lao TT et al (2011) <sup>83</sup>	2003	Hong Kong, Macau and Taiwan	UK	singletons	ultrasound	66443	cohort	6
Lau Y et al (2013) <sup>84</sup>	2009	Hong Kong, Macau and Taiwan	UK	UK	LMP	581	cohort	6
Chung WH et al (2017) <sup>85</sup>	1997	Hong Kong, Macau and Taiwan	UK	singletons	UK	17600	XS	2
Chung WH et al (2017) <sup>85</sup>	2002	Hong Kong, Macau and Taiwan	UK	singletons	UK	19603	XS	2
Chung WH et al (2017) <sup>85</sup>	2007	Hong Kong, Macau and Taiwan	UK	singletons	UK	24506	XS	2
Chung WH et al (2017) <sup>85</sup>	2012	Hong Kong, Macau and Taiwan	UK	singletons	UK	24553	XS	2
Lai YJ et al (2017) <sup>86</sup>	2012	Hong Kong, Macau and Taiwan	UK	singletons	UK	1187	cohort	5
Spracklen CN et al (2017) <sup>87</sup>	2009	Hong Kong, Macau and Taiwan	UK	singletons	UK	1989	cohort	6
Chaemsaitong P et al (2018) <sup>88</sup>	2013	Hong Kong, Macau and Taiwan	UK	singletons	ultrasound	61807	cohort	6
Zhou LM et al (1998) <sup>89</sup>	1992	multi-provinces	live	singletons	LMP	829	cohort	5
Lin L et al (2002) <sup>90</sup>	1998	multi-provinces	live	both	UK	22350	XS	6
Liu Y et al (2011) <sup>91</sup>	2000	multi-provinces	live	singletons	LMP	935998	cohort	7
Liu L et al (2007) <sup>92</sup>	1993	multi-provinces	live	singletons	LMP	55975	cohort	6
Liu L et al (2007) <sup>92</sup>	1994	multi-provinces	live	singletons	LMP	63763	cohort	6
Liu L et al (2007) <sup>92</sup>	1995	multi-provinces	live	singletons	LMP	56570	cohort	6
Liu L et al (2007) <sup>92</sup>	1996	multi-provinces	live	singletons	LMP	48331	cohort	6
Liu L et al (2007) <sup>92</sup>	1997	multi-provinces	live	singletons	LMP	44151	cohort	6
Liu L et al (2007) <sup>92</sup>	1998	multi-provinces	live	singletons	LMP	42840	cohort	6
Sun JQ et al (2014) <sup>93</sup>	2005	multi-provinces	live	both	UK	5277	XS	5
Wang T et al (2011) <sup>94</sup>	1999	multi-provinces	live	singletons	LMP	352477	cohort	7
Zhang J et al (2008) <sup>95</sup>	1995	multi-provinces	UK	singletons	LMP	202216	cohort	6
Zhang J et al (2008) <sup>95</sup>	1997	multi-provinces	UK	singletons	LMP	206430	cohort	6
Zhang J et al (2008) <sup>95</sup>	1999	multi-provinces	UK	singletons	LMP	175598	cohort	6

Zhang J et al (2008) <sup>95</sup>	2001	multi-provinces	UK	singletons	LMP	139078	cohort	6
Zhang J et al (2008) <sup>95</sup>	2003	multi-provinces	UK	singletons	LMP	154585	cohort	6
Souza JP et al (2010) <sup>96</sup>	2008	multi-provinces	live	both	UK	14628	XS	8
Zhu L et al (2015) <sup>17</sup>	2013	multi-provinces	live	singletons	both	159334	XS	7
Chen YL et al (2015) <sup>97</sup>	2011	multi-provinces	live	UK	both	103678	XS	7
Chen Y et al (2016) <sup>98</sup>	2011	multi-provinces	all	both	both	103678	XS	8
Hou L et al (2014) <sup>99</sup>	2011	multi-provinces	UK	singletons	UK	109722	XS	7
Luo XL et al (2015) <sup>100</sup>	2011	multi-provinces	live	both	LMP	111767	XS	8
Ye C et al (2014) <sup>101</sup>	2011	multi-provinces	all	UK	UK	112386	XS	6
Zou L et al (2014) <sup>16</sup>	2011	multi-provinces	all	both	LMP	109705	XS	6
Souza JP et al (2013) <sup>102</sup>	2011	multi-provinces	live	both	UK	13215	XS	8
Yang Y et al (2015) <sup>103</sup>	2012	multi-provinces	live	singletons	LMP	367425	cohort	7
Huang AQ et al (2018) <sup>104</sup>	2014	multi-provinces	live	singletons	LMP	40152	XS	7
Kong XY et al (2016) <sup>105</sup>	2013	multi-provinces	live	UK	LMP	138240	XS	7
Li N et al (2016) <sup>106</sup>	1995	multi-provinces	live	singletons	LMP	44494	cohort	7
Tang W et al (2016) <sup>107</sup>	2013	multi-provinces	live	UK	LMP	3915965	XS	5
Zhang XS et al (2016) <sup>108</sup>	2012	multi-provinces	live	UK	UK	111095	XS	8
Chen S et al (2017) <sup>109</sup>	2011	multi-provinces	live	singletons	LMP	133232	cohort	7
Liu J et al (2017) <sup>110</sup>	2011	multi-provinces	live	singletons	UK	489965	cohort	8
Li Q et al (2018) <sup>111</sup>	2014	multi-provinces	live	singletons	LMP	1240978	cohort	6
Li Y et al (2018) <sup>112</sup>	2014	multi-provinces	UK	singletons	UK	6000	XS	5
Lin L et al (2018) <sup>113</sup>	2014	multi-provinces	live	singletons	LMP	33204	XS	7
Wang C et al (2018) <sup>114</sup>	2014	multi-provinces	UK	singletons	LMP	21577	XS	7
Wang YY et al (2018) <sup>115</sup>	2014	multi-provinces	live	singletons	LMP	1300342	cohort	8

Zhang XL et al (2018) <sup>116</sup>	2014	multi-provinces	UK	singletons	LMP	2722274	cohort	6
Zhang JH et al (1995) <sup>117</sup>	1991	North	UK	UK	UK	600	XS	5
Ye R et al (2000) <sup>118</sup>	1997	North	UK	both	UK	11372	XS	3
Gao XL et al (2000) <sup>119</sup>	1996	North	all	both	UK	8333	XS	4
Qi L et al (2002) <sup>120</sup>	2000	North	UK	UK	UK	1069	cohort	5
Zhang XF et al (2007) <sup>121</sup>	2004	North	live	UK	UK	45337	XS	6
Guo ZK et al (2010) <sup>122</sup>	2007	North	all	both	UK	15197	XS	9
Sun Y et al (2009) <sup>123</sup>	2007	North	UK	UK	UK	26204	XS	6
Qin BL et al (2011) <sup>124</sup>	2006	North	UK	UK	UK	5228	XS	4
Ma LL et al (2010) <sup>125</sup>	2008	North	live	both	both	5822	XS	7
Qu SH et al (2011) <sup>126</sup>	2009	North	UK	singletons	UK	5370	cohort	4
Wei YM et al (2011) <sup>127</sup>	2007	North	UK	UK	UK	14593	cohort	5
Zhao DQ et al (2011) <sup>128</sup>	2009	North	UK	singletons	UK	5266	cohort	5
Liu JM et al (2013) <sup>129</sup>	2008	North	live	singletons	UK	5905	cohort	7
Shan X et al (2014) <sup>130</sup>	1996	North	live	both	UK	3498	cohort	5
Shan X et al (2014) <sup>130</sup>	1997	North	live	both	UK	3987	cohort	5
Shan X et al (2014) <sup>130</sup>	1998	North	live	both	UK	3750	cohort	5
Shan X et al (2014) <sup>130</sup>	1999	North	live	both	UK	4278	cohort	5
Shan X et al (2014) <sup>130</sup>	2000	North	live	both	UK	8528	cohort	5
Hu XY et al (2012) <sup>131</sup>	2010	North	UK	UK	UK	1935	XS	6
Zhou QH et al (2013) <sup>132</sup>	2010	North	UK	singletons	UK	1832	cohort	6
Wang S et al (2013) <sup>133</sup>	2011	North	UK	UK	UK	1208	cohort	5
Liu X et al (2012) <sup>134</sup>	2011	North	UK	singletons	UK	939	cohort	6
Wang CS et al (2013) <sup>135</sup>	2012	North	UK	singletons	UK	4090	XS	7

Zhang CH et al (2015) <sup>136</sup>	2012	North	live	singletons	both	14196	cohort	6
Shang M et al (2014) <sup>137</sup>	2013	North	UK	singletons	UK	3083	cohort	6
Wen T et al (2015) <sup>138</sup>	2011	North	live	singletons	both	11751	cohort	5
Barros FC et al (2015) <sup>139</sup>	2012	North	all	both	both	60058	XS	6
Han SJ et al (2016) <sup>140</sup>	2013	North	UK	both	UK	37573	cohort	4
Maerdan M et al (2016) <sup>141</sup>	2012	North	UK	singletons	LMP	25328	XS	3
Wei YM et al (2016) <sup>142</sup>	2013	North	live	singletons	UK	14451	cohort	4
Cheng YP et al (2016) <sup>143</sup>	2013	North	live	UK	LMP	1839	XS	8
Jiang F et al (2016) <sup>144</sup>	1992	North	UK	both	UK	5248	XS	5
Jiang F et al (2016) <sup>144</sup>	1997	North	UK	both	UK	6195	XS	5
Jiang F et al (2016) <sup>144</sup>	2002	North	UK	both	UK	9117	XS	5
Jiang F et al (2016) <sup>144</sup>	2007	North	UK	both	UK	11564	XS	5
Jiang F et al (2016) <sup>144</sup>	2012	North	UK	both	UK	14544	XS	5
Yang WJ et al (2017) <sup>145</sup>	2011	North	UK	singletons	UK	1102	XS	7
Wang C et al (2017) <sup>146</sup>	2013	North	UK	singletons	UK	14970	XS	6
Zheng W et al (2018) <sup>147</sup>	2014	North	UK	singletons	UK	10366	cohort	6
Zhang X et al (2018) <sup>148</sup>	2016	North	UK	UK	UK	263157	XS	5
Wang ST et al (2012) <sup>149</sup>	2008	Northeast	UK	UK	UK	710	cohort	6
Xu X et al (2015) <sup>150</sup>	2011	Northwest	UK	singletons	UK	6181	cohort	4
Jiang M et al (2015) <sup>151</sup>	2011	Northwest	live	singletons	both	9895	cohort	6
Zhao N et al (2015) <sup>152</sup>	2011	Northwest	live	singletons	LMP	8969	cohort	7
Huang L et al (2016) <sup>153</sup>	2011	Northwest	live	singletons	LMP	10179	cohort	6
Wang LL et al (2016) <sup>154</sup>	2012	Northwest	live	UK	UK	28487	XS	7
Yang J et al (2017) <sup>155</sup>	2013	Northwest	live	singletons	both	7375	XS	6

Zhu XY et al (2007) <sup>156</sup>	2005	South	live	UK	UK	6885	XS	6
Fu J et al (2011) <sup>157</sup>	2007	South	live	singletons	both	28052	XS	5
Zhou J et al (2014) <sup>158</sup>	2011	South	all	UK	UK	1953	cohort	7
Lei Q et al (2014) <sup>159</sup>	2011	South	UK	singletons	UK	3329	cohort	7
He JR et al (2016) <sup>160</sup>	2006	South	UK	singletons	both	838146	XS	7
Lei Q et al (2016) <sup>161</sup>	2013	South	UK	singletons	both	5535	cohort	5
Liang ZJ et al (2016) <sup>162</sup>	2005	South	live	singletons	LMP	94335	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2006	South	live	singletons	LMP	115428	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2007	South	live	singletons	LMP	146934	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2008	South	live	singletons	LMP	163138	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2009	South	live	singletons	LMP	158953	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2010	South	live	singletons	LMP	174515	XS	6
Liang ZJ et al (2016) <sup>162</sup>	2011	South	live	singletons	LMP	187335	XS	6
Shen S et al (2017) <sup>163</sup>	2014	South	live	singletons	ultrasound	12889	cohort	7
Ke L et al (2018) <sup>164</sup>	2015	South	live	singletons	both	3684	cohort	5
Li C et al (2018) <sup>165</sup>	2008	South	live	UK	both	1385882	cohort	6
Liang ZJ et al (2018) <sup>166</sup>	2008	South	live	singletons	both	904795	XS	6
Wang Q et al (2018) <sup>167</sup>	2016	South	live	singletons	both	469975	cohort	7
Yangzom Y et al (2008) <sup>168</sup>	2005	Southwest	live	both	both	2540	cohort	5
Yang X et al (2011) <sup>169</sup>	2006	Southwest	live	both	UK	13024	XS	6
Duan L et al (2010) <sup>170</sup>	2005	Southwest	live	singletons	UK	21043	cohort	8
Tan CE et al (2009) <sup>171</sup>	2008	Southwest	live	UK	UK	6638	cohort	4
Tan CE et al (2009) <sup>171</sup>	2009	Southwest	live	UK	UK	6365	cohort	4
Liao H et al (2010) <sup>172</sup>	2008	Southwest	all	singletons	both	18024	cohort	7



Liao S et al (2014) <sup>173</sup>	2010	Southwest	all	singletons	both	5360	cohort	6
Fan XJ et al (2017) <sup>174</sup>	2009	Southwest	UK	singletons	LMP	1419	cohort	7
Li R et al (2017) <sup>175</sup>	2013	Southwest	UK	singletons	both	688	cohort	8

\*All births: livebirths and stillbirths. Unknown births: does not specify live birth or all births.

‡UK: unknown.

†XS: cross-sectional study. Cohort: cohort study.