

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/L MP/Both/ Unknown) ‡	Total births	Study design†	Quality score
Han W et al (2011) ²⁴	2006	Central	all	both	both	26760	cohort	5
He Y et al (2014) ²⁵	2010	Central	live	singletons	UK	6102	cohort	7
Xu X et al (2014) ²⁶	2011	Central	live	UK	UK	6270	cohort	8
Xu H et al (2015) ²⁷	2007	Central	live	both	both	818481	XS	6
Guo Y et al (2015) ²⁸	2012	Central	UK	singletons	both	1031	cohort	6
Qian ZM et al (2016) ²⁹	2012	Central	live	singletons	LMP	95911	cohort	7
Yang J et al (2016) ³⁰	2013	Central	live	singletons	both	5364	cohort	6
Zhang B et al (2016) ³¹	2012	Central	live	singletons	both	76695	cohort	7
Hu RY et al (2017) ³²	2013	Central	live	singletons	both	317463	cohort	6
Chen X et al (2018) ³³	2013	Central	live	singletons	ultrasound	7291	cohort	7
Huang X et al (2018) ³⁴	2016	Central	live	singletons	UK	16780	cohort	5
Huo W et al (2018) ³⁵	2014	Central	UK	UK	LMP	1006	cohort	7
Li H et al (2018) ³⁶	2013	Central	live	singletons	LMP	11070	cohort	7
Li X et al (2018) ³⁷	2010	Central	live	singletons	both	6059	cohort	6
Li XY et al (2018) ³⁸	2015	Central	live	singletons	LMP	16035	cohort	5
Yang J et al (2018) ³⁹	2015	Central	UK	singletons	UK	2347	cohort	6
Xu X et al (1994) ⁴⁰	1992	East	live	both	UK	795	XS	4

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

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

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

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

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

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

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

Liao S et al (2014) ¹⁷³	2010	Southwest	all	singletons	both	5360	cohort	6
Fan XJ et al (2017) ¹⁷⁴	2009	Southwest	UK	singletons	LMP	1419	cohort	7
Li R et al (2017) ¹⁷⁵	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.