

**Supplement Table 1.** Yearly change of maternal age-adjusted rates and adjusted odds ratios of low birth weight, preterm birth, preterm birth and low birth weight, and intra uterine growth retardation in Korea from 1995 to 2008

Birth year	Total number of births	LBW			PTB			PT-LBW			IUGR		
		Number of births	Age adjusted rate %*		Number of births	Age adjusted rate %*		Number of births	Age adjusted rate %*		Number of births	Age adjusted rate %*	
			ORs	(95% CIs) <sup>†</sup>		ORs	(95% CIs) <sup>†</sup>		ORs	(95% CIs) <sup>†</sup>		ORs	(95% CIs) <sup>†</sup>
1995	711,148	21,520	3.1	1.00	18,119	2.7	1.00	9,470	1.4	1.00	12,050	1.7	1.00
1996	688,036	21,308	3.2	1.02 (1.00-1.04)	21,147	3.3	1.21 (1.19-1.24)	9,949	1.5	1.08 (1.05-1.11)	11,359	1.7	0.97 (0.94-0.99)
1997	667,182	21,720	3.4	1.07 (1.05-1.10)	21,143	3.3	1.25 (1.23-1.28)	10,287	1.6	1.15 (1.12-1.19)	11,433	1.7	1.01 (0.98-1.03)
1998	634,503	21,961	3.6	1.13 (1.11-1.15)	22,091	3.6	1.37 (1.34-1.40)	10,888	1.8	1.28 (1.24-1.31)	11,073	1.8	1.01 (0.98-1.04)
1999	612,673	21,921	3.7	1.14 (1.12-1.17)	23,611	4.0	1.50 (1.47-1.53)	11,280	1.9	1.33 (1.29-1.37)	10,641	1.8	0.99 (0.96-1.01)
2000	632,367	24,050	3.9	1.20 (1.18-1.23)	23,896	3.8	1.44 (1.41-1.47)	12,187	2.0	1.36 (1.32-1.40)	11,863	1.9	1.06 (1.03-1.09)
2001	552,562	21,755	4.0	1.22 (1.19-1.24)	23,765	4.3	1.62 (1.59-1.66)	11,587	2.1	1.45 (1.41-1.49)	10,168	1.8	1.02 (0.99-1.05)
2002	487,747	19,328	3.9	1.19 (1.16-1.21)	21,493	4.4	1.63 (1.60-1.66)	10,544	2.1	1.45 (1.40-1.49)	8,784	1.8	0.97 (0.94-1.00)
2003	485,356	19,705	4.0	1.20 (1.18-1.23)	21,958	4.5	1.66 (1.62-1.69)	11,006	2.2	1.50 (1.46-1.54)	8,699	1.8	0.96 (0.93-0.98)
2004	468,115	19,355	4.1	1.19 (1.17-1.22)	21,716	4.5	1.67 (1.63-1.70)	11,019	2.3	1.52 (1.48-1.56)	8,336	1.8	0.93 (0.90-0.95)
2005	430,559	18,427	4.2	1.22 (1.19-1.24)	20,465	4.6	1.68 (1.64-1.71)	10,482	2.3	1.54 (1.49-1.58)	7,945	1.8	0.95 (0.92-0.97)
2006	443,561	19,364	4.3	1.20 (1.17-1.22)	21,584	4.7	1.67 (1.64-1.71)	11,081	2.4	1.52 (1.47-1.56)	8,283	1.9	0.93 (0.90-0.96)
2007	488,923	22,753	4.5	1.23 (1.20-1.25)	25,204	4.9	1.72 (1.69-1.76)	13,315	2.6	1.59 (1.54-1.63)	9,438	1.9	0.92 (0.90-0.95)
2008	463,333	22,528	4.7	1.28 (1.26-1.31)	25,585	5.3	1.85 (1.81-1.89)	13,185	2.7	1.65 (1.60-1.70)	9,343	2.0	0.96 (0.94-0.99)

\*All rates are adjusted for maternal age, with the exception of the maternal age categorical variable; <sup>†</sup>ORs (95% CIs): adjusted for infant sex, maternal age, parental age, multiple birth, parity, death of previous children, and birth year.

**Supplement Table 2.** The result of test for trends for Fig. 1 and Fig. 2

Items	Yearly trends	Test for trends	
(For Fig. 1)	Yearly trends of maternal age-adjusted rates for LBW	$P < 0.0001$	
Yearly trends	Yearly trends of maternal age-adjusted rates for PT	$P < 0.0001$	
	Yearly trends of maternal age-adjusted rates for PT-LBW	$P < 0.0001$	
	Yearly trends of maternal age-adjusted rates for IUGR	$P = 0.051$	
(For Fig. 2)			
LBW	Fathers	Yearly trends of adjusted odds ratios in the high school	$P = 0.9841$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P = 0.8838$
		Difference between university and high school	$P = 0.9888$
		Difference between university and middle school or lower	$P = 0.9177$
LBW	Mothers	Yearly trends of adjusted odds ratios in the high school	$P = 0.0553$
		Yearly trends of adjusted odds ratios in the middle school	$P = 0.0079$
		Difference between university and high school	$P = 0.1699$
		Difference between university and middle school or lower	$P = 0.0541$
PTB	Fathers	Yearly trends of adjusted odds ratios in the high school	$P < 0.0001$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P < 0.0001$
		Difference between university and high school	$P = 0.0002$
		Difference between university and middle school or lower	$P < 0.0001$
PTB	Mothers	Yearly trends of adjusted odds ratios in the high school	$P < 0.0001$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P < 0.0001$
		Difference between university and high school	$P < 0.0001$
		Difference between university and middle school or lower	$P < 0.0001$
IUGR	Fathers	Yearly trends of adjusted odds ratios in the high school	$P = 0.0825$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P = 0.0047$
		Difference between university and high school	$P = 0.2147$
		Difference between university and middle school or lower	$P = 0.0401$
IUGR	Mothers	Yearly trends of adjusted odds ratios in the high school	$P = 0.3386$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P = 0.2016$
		Difference between university and high school	$P = 0.4972$
		Difference between university and middle school or lower	$P = 0.3638$
PT-LBW	Fathers	Yearly trends of adjusted odds ratios in the high school	$P = 0.0443$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P = 0.0001$
		Difference between university and high school	$P = 0.1493$
		Difference between university and middle school or lower	$P = 0.0045$
PT-LBW	Mothers	Yearly trends of adjusted odds ratios in the high school	$P = 0.0068$
		Yearly trends of adjusted odds ratios in the middle school or lower	$P < 0.0001$
		Difference between university and high school	$P = 0.0499$
		Difference between university and middle school or lower	$P = 0.003$