				환경역학		번호:	II - B - 2		
제	목	국문	산모의 간접흡연노출과 산소성손상이 태아의 체중감소에 미치는 영향						
		영문	Reduction of neonatal birth weight by maternal exposure to environmental tobacco smoke and oxidative stress in pregnancy						
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1) 연구 목적

Our objectives was to determine whether maternal exposure to environmental tobacco smoke or oxidative stress plays any role in lowering birth weight and pre-term delivery.

2) 연구 방법

We conduced a survey in 2000-2001 among 264 pregnant women who hospitalized for delivery, and their singleton live births in three residential areas of Korea. Among the neonates, 246 births were full-term infants and 18 births were pre-term infants. Main outcome measurements are birth weight, gestational age, maternal and neonatal urinary concentrations of cotinine, and maternal urinary 8-hydroxydeoxyguanosine (8-OH-dG) and malondialdehyde (MDA)

3) 연구 결과

The concentrations of maternal urinary cotinine (P<0.01), 8-OH-dG (P=0.01), and MDA (P=0.02) were negatively associated with birth weight after adjusting for potential confounders. After further adjusting for gestational age, maternal urinary cotinine (P<0.01) and MDA (P=0.02) remained statistically significant. Maternal weight at delivery (P<0.01), gestational age (<0.01), and neonatal sex (p=0.02) also affected birth weight significantly. Frequent consumption of meat (>=5 times/wk), frequent alcohol use (>=1 time/wk), a

maternal job, and residence in a affect birth weight. Concentrations were found to be significantly hig women with normal birth weight concentrations of urinary 8-OH-d the differences did not reach stati	s of maternal urinar her in the women infants. The women IG and MDA than i	ry 8-OH-dG (with low birth n with pre-ten	P=0.01) and weight infa rm infants a	MDA (P< nts than i	(0.01) n the nigher
		4- P/PC 1			
This study demonstrates that during pregnancy significantly redu			maternal o	xidative s	stress
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