## Impact of Outdoor Air Pollution on Child Health and Well-Being

## **Health and Policy Context**

, ir	ncluding outdoor	, can b	oe	
important contributors to he	ealth. Exposure to p	oor outdoor a	nir	
quality (i.e., air pollution) po				
and families. Outdoor				
smoke or particulate matter				
smoke of particulate matter	, and ground level	020110 (1.0., 311)	09).	
Children are at a	of negative		caused by	
outdoor air pollution since t				
higher				0
air pollution can include, bu				
and other behavioral and				ildhood can
also impact the risk of		Exposure	to all pollution in on	nanooa can
also impact the risk of		-		
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	e to air pollutants during pregnancy and adverse birth which can rates of, and cardio-respiratory		
abnormalities, such as chronic lung disease of premate with and mortality and increased during the prenatal period can impair	curity. Preterm birth and low birth weight are also associated morbidity in adulthood. Moreover, exposure to air pollution and organ development and is associated with childhood exposure to air pollution during pregnancy can also increase		
risk of			
Asthma and Allergic Diseases			
Studies have demonstrated an association between air pollution and, including:  • Asthma. Exposure to air pollution can increase the risk of, Specifically, exposure to air pollution can, the risk of asthma-related hospitalization, length of hospital stays, and rates of medication use, which can result in children missing, and parents/caretakers missing work.  • Seasonal Allergies. Seasonal, triggered by environmental allergens like pollen, may be worsened by,	Marginalized Communities Are More Likely to Be Exposed to Outdoor Air Pollution and Other Cumulative Environmental Stressors  Various studies conclude that,, and, and, who are more likely to live to tractories), are disproportionately exposed to outdoor air pollution. Moreover, some marginalized may be disproportionately exposed to and/or social and environmental stressors (e.g., substandard housing conditions and extreme heat, limited safe greenspace access; and air pollution) over their lifetime, which compound to negatively impact		
as air pollution can make pollen more (i.e., higher capacity to trigger allergies).	health and well-being and exacerbate health disparities. <sup>4</sup>		
Other Respiratory Issues			
and exposure to outdoor air pollur respiratory issues, including:	tion is associated with an increased risk for childhood		
children, which can in turn contribute to poor res	posure to air pollutants can impact in piratory outcomes into adulthood. Furthermore, another pregnancy and early life is associated with reduced lung		
<ul> <li>Respiratory Infections. Exposure to air pollution</li> <li>, including bronchitis and,</li> </ul>	during childhood can also increase risk for , and others.		
Behavior and Development			
suggests exposure to outdoor air pollution i	n utero or during can impact brain development		

and \_\_\_\_\_\_. Specifically, one \_\_\_\_\_ demonstrates the relationship between exposure to air pollution and neurological development, including an increased risk of developmental disorders like attention-deficit/ hyperactivity disorders or autism spectrum disorders. Another \_\_\_\_\_ shows children ages 2 to 4 who were exposed to air pollution were at a higher risk of worse behavioral function and cognitive performance.