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Effects of early life arsenic exposure on the respiratory system, blood pressure and renal function in children and adolescents in rural Bangladesh, Matlab

**A thesis presented in partial fulfillment of the
Requirements for the degree of
PhD in Public Health (Epidemiology)**

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Acronyms

WHO	World Health Organization	ROS	Reactive Oxygen Species
UNICEF	United Nations Children's Fund	LDL	Low Density Lipoprotein
FVC	Forced Vital Capacity	CRP	C-Reactive Protein
FEV1	Forced Expiratory Volume in first Second	MAPK	Mitogen-Activated Protein Kinase
IRB	Institutional Review Board	β 2MG	β 2-Microglobulin
ISAAC	International Study of Asthma and Allergies in Childhood	eGFR	Estimated Glomerular Filtration Rate
ARI	Acute Respiratory Infection	PORs	Prevalence Odds Ratios
SBP	Systolic Blood Pressure	SMR	Standardized Mortality Ratio
DBP	Diastolic Blood Pressure	BMI	Body Mass Index
HDSS	Health and Demographic Surveillance System	GIS	Geographic Information System
MMA	Monomethylarsonic Acid	MMP9	Metaloprotease 9
DMA	Dimethylarsinic Acid	As	Arsenic
OR	Odds Ratio	iAs	Inorganic Arsenic
uAs	Urinary Arsenic	HR	Hazard Ratio