



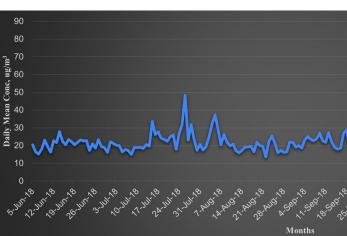
Introduction	Methodology	
 environment, either; anthrope Anthropogenic sources: burn from cars, aircrafts, and ship, 		
PR25 PR25 Search Justification	Valatiie Organinds Particular Matter Valatiie Organinds Common air pollutants Bioride Common air pollutants Nitrogen Dioxide Carbon Monother Nitrogen Dioxide Arbon Monother Matter Nitrogen Dioxide Matter Nitrogen Dioxide	Trigger Patient 1 Patient 2 Patient 2 Patient 3 (Zhongheng, 2016) Statistical Analysis • STATA Software Package • Basic Descriptive Statistics • Conditional Logistic Regression
Objectives	Results - 3	
To evaluate the association be concentration in a given day	Time series chart showing the beh distribution of daily mean concent to November 2018)	

Results - 2

respiratory diseases.

Lag Day	PM _{2.5} (Daily Maximum Concentration) Odd Ratio, (95% CI) P-value
0	1.002 (1.001 - 1.003) < 0.01
1	1.001 (1.001 - 1.002) < 0.01
2	1.001 (1.001 - 1.002) < 0.01

ehavior and entration of PM_{2.5} (June to November 2018)





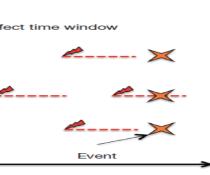
Presented by: Emmanuel Gideon IDU (MPH), Theophilus Bright Ogbuabia (Civil & Env. Engineering) Lead Supervisor: Prof. Byron L. Crape, MPH, PhD

Results - 1

fast-urbanizing capital known as Nur-Sultan) ospitalization cases

from the US embassy

ver study design



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General Characteristics of Patients – respiratory diseases (n = 35805)

Characteristics	Value (%)
Male	18147 (50.7)
Female	27658 (49.3)
Preschool (0-5yr)	18480 (51.6)
Adolescents (6-	3411 (9.5)
17yr)	
Adult (18-64yr)	11829 (33.0)
Seniors (≩65)	2085 (5.8)
Mean	17.3
Median	4.0

Association Between PM2.5 Daily Mean Concentration Exposure for Respiratory Disease Hospitalization (Single Pollutant Model)

Lag Day	PM _{2.5} (Daily Mean Concentration Odd Ratio, (95% CI) P-value	
0	1.023 (1.020 - 1.026) < 0.01	
1	1.019 (1.016 - 1.022) < 0.01	
2	1.016 (1.012 - 1.018) < 0.01	

Conclusion

- Our study confirms the association existing • between exposure to varying concentrations of PM2.5 and the rate of hospitalization due to respiratory diseases
- Further study should be carried out so as to • ascertain the impact of indoor air pollutant.