Pollution Prevention Partnership
Texas A&M University-Corpus Christi
Air Quality and Pediatric Respiratory Health Research
An Air Quality/Public Health Study

- How to Set One Up
- Partners
- Criteria
- Methodology
- Benefits
Approach the Approachable

• Asthma Coalitions
• Pulmonary Doctors
• Allergists
• Teaching Hospitals
• University Nursing, Sociology and Business Programs
• Clinics
• Air Quality Regulator Databases
Unique Study

• Attainment area

• High incidence of asthma - 12% rate of asthma in predominantly Hispanic community
Driscoll Children’s Hospital
Driscoll Children’s Hospital

- Serves all of South Texas
- 14 counties
- 516,188 children under the age of 18.
- 40% of the children live below the national poverty level
- 31.3% do not have health insurance
Texas A&M University-College of Nursing

• Undergraduate and Graduate nursing programs

• 40 undergraduate and graduate students will be trained on data collection, asthma education, and working with underserved children
Define Study

• What do you really want to know
• What do you want to do with the information
• What do you want to report and to whom
• Work epi and stat needs backwards
• Build criteria
Study

• Is there a relationship between attainment ozone and PM levels and pediatric health
• Communicate the study results to those that can make a difference
• Child care and health care providers
• “Emitters”
Criteria

• Recruit and involve all partners
• Literature review
• ICD 9 code – 460-519
• Date and time, code, age, gender, ethnicity, zip code, x times
• Minimum of 3 years period
Methodology

• Electronic sorting and abstracting
• Random number assignment
• Exempt status – no human subjects, no informed consent, group data compilation
• Retrospective Correlational Design – SPSS Stat. Pkg. 11.5
Information Presentation

- Allergens
- P M Levels
- Ozone Levels
- Hospital Data
Benefits of Study

• Driscoll Benefits

• Nursing Benefits

• Asthma Coalition Benefits

• Community Benefits
Study Stats and Status

• Stats
  – $30,000
  – 1 year

• Status
  – Data analysis - in process
  – Additional epidemiological work – future funding
  – Reporting out
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