

Environmental exposures across urban and rural communities in the Deep South

CAB Meeting

April 10 2017 3-4pm Central

Phone Call

Draft Meeting Minutes

Attendees: Kirsten Bryant, Mary Evans, Julia Gohlke, Ethel Johnson, Claudiu Lungu, Linsey Marr, Michael Milazzo, Molly Richardson, Anna Scott, Sheryl Threadgill-Matthews, Sheila Tyson, Steve Wood, Connor Wu, Ben Zaitchik

Adoption of Meeting Agenda and Review of Meeting Minutes: The agenda was adopted. We reviewed the Meeting Minutes from 3/13/17 and noted that notes from discussions since the most recent CAB meeting are posted on Basecamp. There were no new additions.

Update to Summer Protocol: Participants will go about their daily activities for the first two days. At the end of the second day, they will receive a phone check in call to ensure comfort and compliance of wearing the monitor and recording activities. We propose that we will ask them to add 30 minutes of time outside each day for days 3-7. They should record this activity on their daily log and will receive a second check-in call at day 5. The daily log will also have reminders to spend time outside during these days. Everyone thought this was reasonable to ask of participants, the reminders will be helpful, and it will help reduce the potential response bias of participants. In an earlier discussion with biostatistician Leslie McClure, this makes sense from a statistical perspective.

Temperature and Humidity Sampling: We discussed the map on Basecamp that Connor created. It shows Birmingham with the neighborhood boundaries and Wilcox County. There are MODIS grids which show 1km squared areas which are useful for the analysis. It currently shows the areas where we put monitors in previous years. We will place the temperature monitors in the different neighborhoods and within different grids to ensure that they are spread out. We anticipate 20-30 monitors in Birmingham and approximately 15 in Wilcox County will be deployed May 22nd in Birmingham and May 23rd in Wilcox County.

WBGT: Two Kestral WBGT (wet bulb globe thermometers) will be placed, one in Birmingham and one in Wilcox County. These are used in occupational settings to determine heat stress. They measure humidity, temperature, windspeed, and solar radiation. Only two will be used as they are expensive and require a secure location to set up. We will identify appropriate sites and discuss with Claudiu how to correctly set them up. They are small and can move over the summer to high priority areas. They store the information on the device and will need to be checked (TBD).

VOC Sampling: After recent discussions of the limitations of personal sampling, Michael and Linsey suggested a plan to look at BTEX in terms of parks versus nonparks using passive samplers. This sampling will likely occur in late Summer (potentially July). The passive samplers could be co-located with temperature monitors. They are looking at using the 3M passive samplers with a sampling time of 1 week and will require a cover to protect from rain. They are looking at how many weeks they can afford to deploy and analyze to determine the sampling strategy. One suggestion was Harriman Park although that may be more of a community center than meet the traditional park criteria. Other

options to be discussed later are North Birmingham Park, the park uphill from the gas tanks in West End, George Ward Park, the park off Vanderbilt Road (behind the airport, behind ABC Coke), or Maclin Park in Collegeville.

Staffing and Logistics: We will need 3-4 full time people at each location. We have Molly, Julia, Connor, Mary, Sheila, Keisha, and Ethel as definitely committed during the period beginning July 10th. Potential additional help may include Yun, Kaya, Anna, Michael, a public health undergrad from Johns Hopkins, or a public health masters student from UAB or VT. Mary and Julia are checking about the IRB training status of staff under Virginia Tech protocol.

Recruitment Strategy Update: A training of the staff who will conduct consent and train participants on how to wear the monitors and record in their daily log might be helpful. This may occur the Friday before participant enrollment. The participants at the enrollment session their first day will receive training on how to wear the monitor and record in their daily log (1 hour or 1.5 hours). They will return 1 week later to return the monitors and fill out end of study survey (1 hour). Sheila is experiencing lots of disconnected phone numbers, but feels confident in her recruitment. Ethel asked about taking the monitor off during church. The monitor will clip to any shoe, even women's dress shoes. Molly will send a picture to show participants of different shoe options to alleviate any concerns this week.

Summary: We will continue discussions over the next month and look forward to temperature monitor placement in Birmingham on May 22nd at 8 or 9am and in Wilcox County at 10am on Tuesday May 23rd.