Environmental Exposures

Temperature		Air pollutants
		PM2.5, O3, NO2
• gridMet has ~4km (1/24°) resolution of temperature and relative humidity • Weathermetrics converts relative humidity and temperature to dew point for apparent temperature (AT)	Data Sources	• EPA website has daily values for the three air pollutants at air monitor locations

• Assign AT by finding closest grid centroid to patient location	Coverage	• Assign air monitor data
		   • Closest monitor
		   • Closest continuous monitor
		   • Weighted average of monitors within radius
		   • Average of monitors within radius

• Will not capture microclimates smaller than the 4km x 4km resolution	Complications	• Air pollution varies spatially. Closest monitor may be best estimate but will probably have missing data. Can use MICE on closest monitor data and use closest continuous as sensitivity analysis