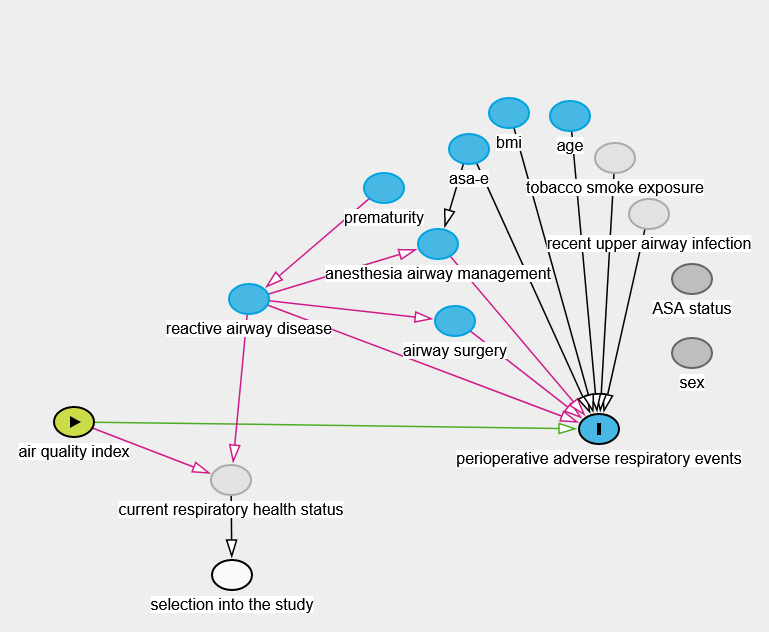
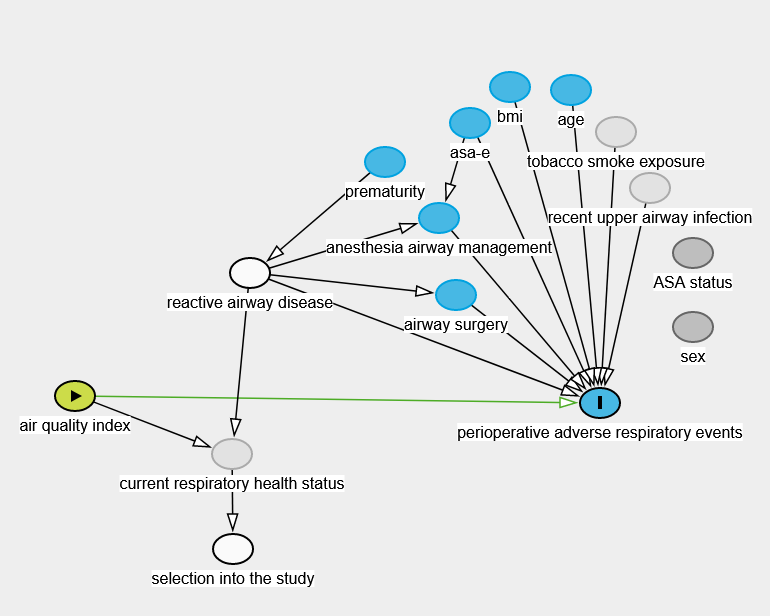
Supplemental Digital Content Figure 1



A



B

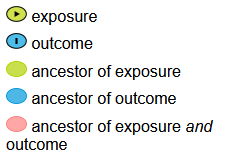
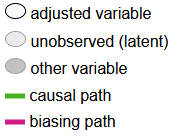
**Figure 1: Directed Acyclic Graph**. The directed acyclic graph displays the underlying assumptions of the causal relationship between variables in our model. Exposure variable AQI (air quality index), outcome variable: perioperative adverse respiratory events.

The green arrow indicates the causal pathway between exposure and outcome (aka the study hypothesis), the red arrows indicate confounding pathways.

Panel A: unadjusted model; Panel B: adjusted model (adjusted for hx/reactive airway disease).

The interactive graph can be accessed under: [http://dagitty.net/dags.html?id=\_z3mG5#](http://dagitty.net/dags.html?id=_z3mG5)

Legend:

Johannes Textor, Benito van der Zander, Mark K. Gilthorpe, Maciej Liskiewicz, George T.H. Ellison.

Robust causal inference using directed acyclic graphs: the R package 'dagitty'.

International Journal of Epidemiology 45(6):1887-1894, 2016