

Table 1. Detailed PECO study eligibility criteria.

Inclusion criteria	Exclusion criteria
Participants/population (human studies or experimental model systems)	
<ul style="list-style-type: none"> <li>• <b>Humans</b></li> <li>• <b>Non-human animals, including laboratory animal studies</b></li> <li>• <b>In silico studies or in vitro models utilizing organs, tissues, cell lines, or cellular components</b></li> </ul>	<ul style="list-style-type: none"> <li>• Free living non-human organisms including wildlife, aquatic species, or plants</li> </ul>
Exposure	
<ul style="list-style-type: none"> <li>• <b>Exposure to MTR mining activities including residential proximity or occupational exposure, environmental measures (e.g., air, water levels)</b></li> <li>• <b>Exposure to mixtures collected from MTR mining areas in an experimental setting</b></li> </ul>	<ul style="list-style-type: none"> <li>• Exposure to single chemical components of MTR mining</li> <li>• Studies with unspecified type of mining conducted prior to widespread use of MTR mining or in geographic areas without MTR mining</li> <li>• Exposure to coal samples, dust or leachates in vitro</li> </ul>
Comparators	
<ul style="list-style-type: none"> <li>• <b>Vehicle-only treatment controls in experimental studies</b></li> </ul>	<ul style="list-style-type: none"> <li>• Case series of miners, descriptive without comparator</li> </ul>
Outcomes	
<ul style="list-style-type: none"> <li>• <b>Human health-relevant outcomes, including measures of general well-being</b></li> </ul>	<ul style="list-style-type: none"> <li>• Environmental impacts</li> </ul>
Publications (e.g., language restrictions, use of conference abstracts)	

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- **Study must contain original data and must be peer-reviewed** • Articles with no original data, e.g., editorials, reviews
  - **Studies published in a language other than English will be translated for review** • Non-peer reviewed articles: Conference presentations or other studies published in abstract form only, grant awards, and theses/dissertations
  - Retracted articles
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