



Health Effects Institute's Energy Research Program

The Initial Energy Research Committee's General Approach to its Systematic Review of the Human Health Literature related to Unconventional Oil and Natural Gas Development

**Scoping Meeting
Metro Meeting Centers, 101 Federal St,
Boston, MA 02110
January 17, 2018**



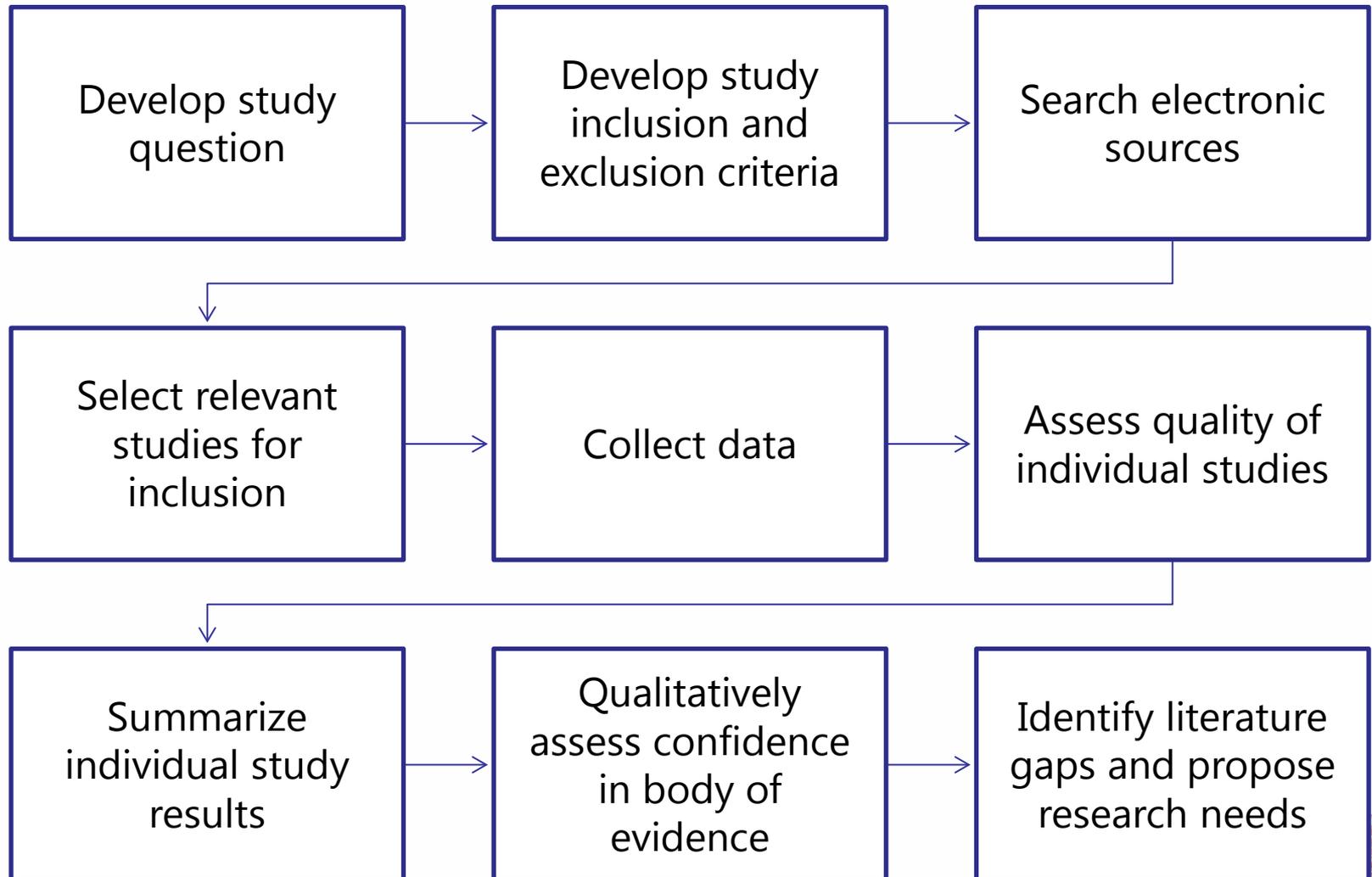
Study Question

- What are the strengths and limitations of the UOGD* epidemiological literature regarding population exposure and health effects?
- What are the knowledge gaps and potential research needs?

*UOGD – unconventional oil and gas development



Approach to the Systematic Literature Review



Initial Literature Inclusion Criteria

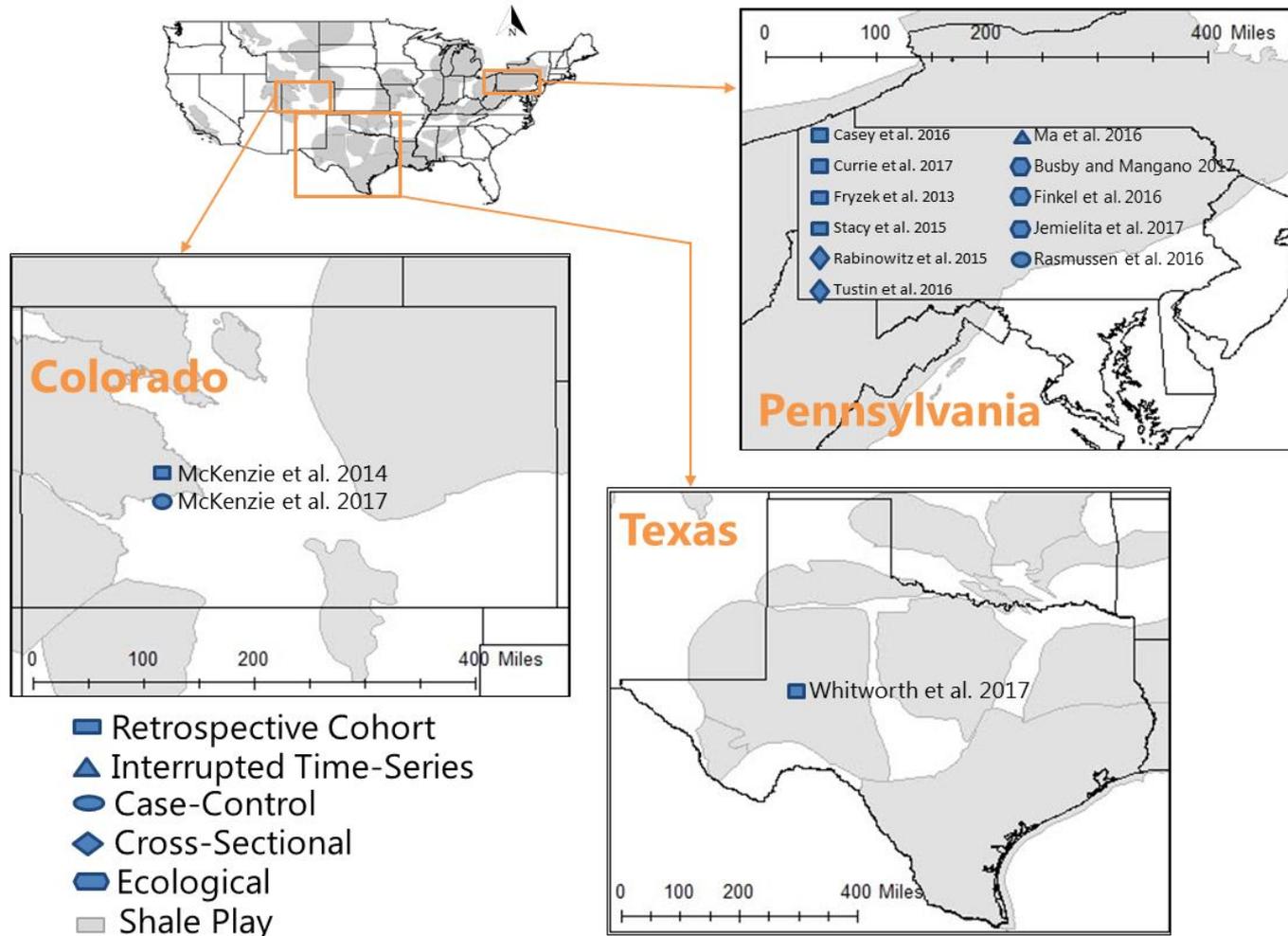
Study Type	Analytical epidemiologic
Study Location	Worldwide
Publication	Primary research, peer-reviewed
Population	Humans
Exposure	Direct measurements or surrogates of UOGD exposure
Outcomes	Human health outcomes, including health symptoms collected via surveys

Initial Criteria for Assessing Study Quality

Study Design
Study Type
Study Population
Outcome Assessment
Exposure Assessment
Confounding
Effect Modification
Analytical Methods
Results
Results and Discussion



Initial List of Peer-Reviewed UOGD Epidemiological Studies



Next steps for Health Critique and other Year 1 Tasks

- In preparing the critique, the Committee will consider comments and questions received at this meeting as well as any sent to HEI by February 5, 2018
- The Energy Research Committee will prepare a draft report, which will undergo peer review before public release of the final report in Summer 2018
- Findings and recommendations from the Health Critique will be considered (along with supporting literature) at the Committee's first of two *Exposure and Risk Screening Workshops* in May-June 2018