



EVIDENCE SYNTHESIS
IRELAND



Cochrane
Ireland

Evidence Synthesis Ireland Fellowship Scheme

Review Identification Form

Review Centre/Group Mentor

Review Centre: The National Collaborating Centre for Methods and Tool's (NCCMT) Rapid Evidence Service (RES)

Mentor: Dr. Sarah Neil-Sztramko

Review title

What effect does public health messaging about wildfire smoke and wildfire smoke + heat have on human behaviour and human health endpoints?

Review type and methods

Rapid review with quantitative data synthesis: the Fellow will take a systematic approach to the synthesis of quantitative findings, with appropriate weighting of findings according to the GRADE framework.

Please confirm that no existing review exists that addresses the review question

While there are existing reviews that examine public health messaging for wildfire events, these reviews are limited to scoping reviews that do not evaluate intervention effectiveness, or older rapid reviews (e.g., published 2017). There are no recent systematic reviews.

Review information

This review has been funded and commissioned by Health Canada, whose Air Quality Risk Assessment Division will use the findings of the review.

Review details

To inform public health messaging to minimize the harms of wildfire smoke, this review will evaluate the effectiveness of public health messages for improving population health outcomes during wildfire and related events.

Inclusion/exclusion criteria:		
	Inclusion	Exclusion
Intervention	Public messaging issued by public health organizations or governing bodies, including through the media, regarding reducing impact of wildfires smoke including (but not limited to): <ul style="list-style-type: none"> -Reduce time spent outdoors -Reduce physical activity outdoors -Cancel outdoor events -Use air conditioning -Seek cool environments -Prioritize cooling over clear air - Shutting windows - Using air cleaners - Mask wearing - Air filtration or cleaning etc.	Advice issued to individuals by physicians
Comparator	Any comparator (No public health messaging, different messages); No comparator	
Outcomes	Any direct or indirect, acute or long-term health outcomes. Use of emergency services Emergency room visits. Hospitalizations. Adherence/compliance to messaging.	Cellular-level outcomes, e.g., inflammation markers, oxidative stress
Study designs	Randomized and non-randomized trials, cohort studies, case-control studies, cross-sectional	Laboratory studies Modeling studies Non-systematic literature reviews

Review current status

The PICO question has been developed, but the protocol is not yet registered on PROSPERO and the search strategy has not yet been developed.

Any specific/desirable requirements for fellow (e.g. clinical expertise, methodological expertise)

Experience in synthesis of heterogenous quantitative data would be an asset.

Estimated start and completion dates

Feb 2025-May 2025