



Co-creation of water quality tools: The connection between water & health

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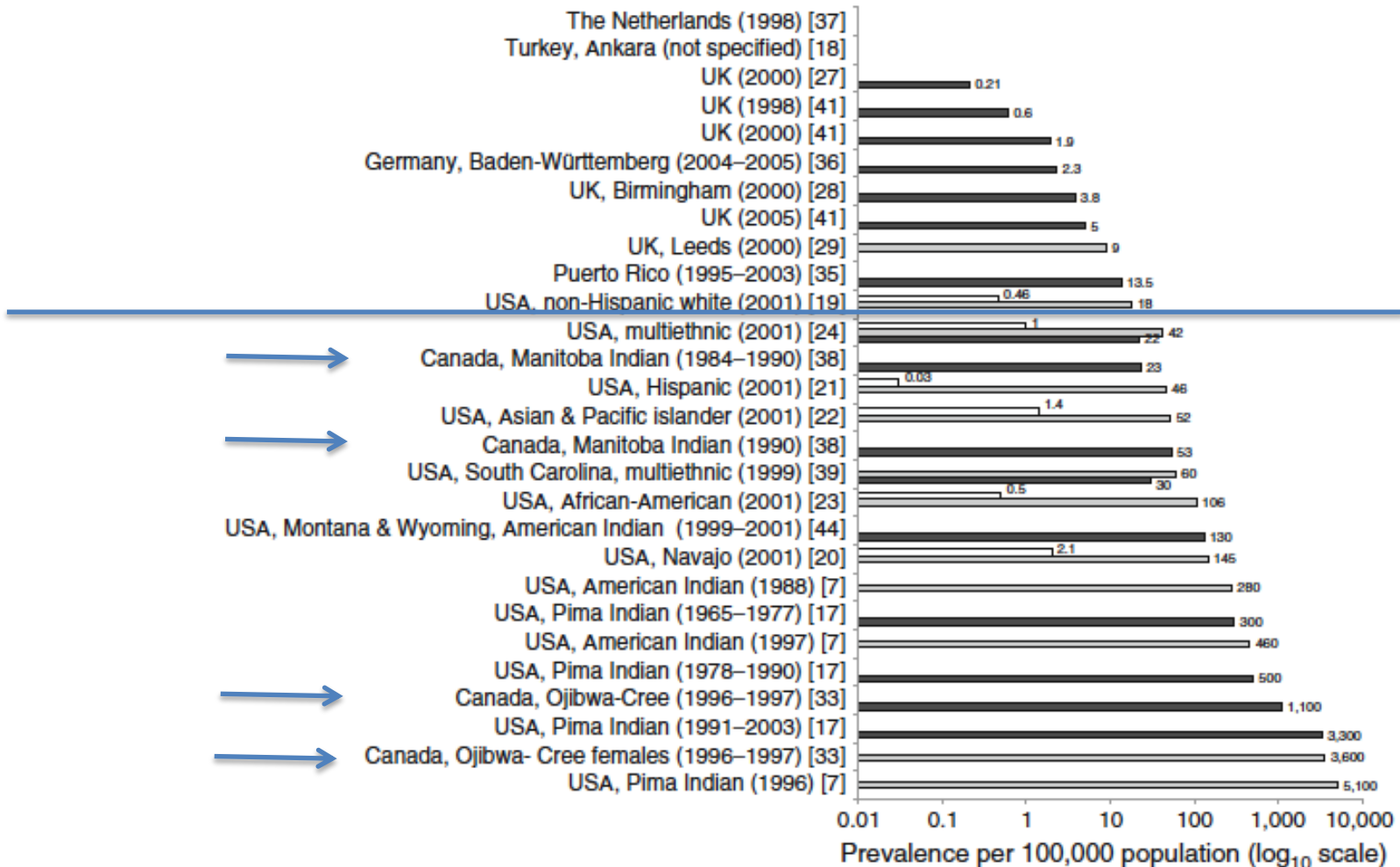
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Water drinking advisories across Canada



Indigenous children have one of the highest rates of type 2 diabetes in the world



Early in-utero exposures and future health outcomes

- The exposure of fetus to diabetes and obesity during pregnancy increases the risk of obesity, heart disease and type 2 diabetes later in life.

GWF Project vision for health component

- We are co-developing Indigenous knowledge-Western Science based project by creating a greater presence of the community in the research methodology, design, priorities and implementation, making Indigenous Knowledge central in Indigenous research
- The Elders will be valued as intellectual investigators and contributors

How we plan to do it

- We will measure the effects of water contaminants including endocrine disrupting chemicals (EDC) and persistent organic pollutants (POPs) on health outcomes including diabetes, obesity, cardiovascular disease, and cancer
- This will be accomplished by integrating health surveys and state of the art biological sample analyses

How we plan to do it

- Co-creation of questionnaires
- Decisions about biological samples to determine health status and what EDC/POPs and metabolic markers to be measured

How we plan to do it

- The data from sensors and other methods of environmental evaluation will be incorporated into the clinical data in the analyses
- Detailed explanation of the processes to be undertaken are given in the methodology for each community

Community dialogue

- Meetings with multiple stakeholders
- Focus groups
- Web-based presence
- Paintings by youth

Principles for partnership

- Listen
- Nothing about you without you
- Be the change you want to see
- Hiring within communities to strengthen communities
- Train the next generation of Indigenous researchers and clinicians to takeover health care and research

The GWF Dream Team!

