## Is living near power lines bad for our health? | BC Medical Journal

## Page 1 of 2



do merit attention. A limited understanding exists of how exposure to EMF can affect health. The underlying biological mechanism is unknown, making it difficult to determine which measure of EMF is most appropriate when evaluating health outcomes. Use of residential proximity may be a reasonable surrogate for direct measurements of EMF, but may also reflect other factors that are related to proximity to high voltage lines.

If the association found in the UK study does reflect a causal relationship, what are the potential impacts in BC? Using current BC leukemia rates[4] and assuming similar proportions of the population live near high voltage lines, on a statistical basis, there may be one additional leukemia in BC every 2 years. To eliminate this risk, one would need to achieve a separation distance of 600 m between every high voltage power line and the nearest residence. While this could be done, it would require substantial changes to existing land use patterns and would require significant resources. While it can be argued that this action is consistent with some forms of the precautionary principle, based on best available evidence, one can achieve much greater risk reduction or health benefits if resources are directed to other larger, better established risks.

## References

1. World Health Organization. Extremely low frequency fields environmental health criteria monograph no. 238. 2007. www.who.int/peh-emf/publications/elf\_ehc/en/index.html (accessed 12 September 2008).



Top

http://www.bcmj.org/bc-centre-disease-control/living-near-power-lines-bad-our-health

12/6/2016