



ANALYZING DIETARY INTAKE DATA, WITH A FOCUS ON ESTIMATING DISTRIBUTIONS OF USUAL INTAKE

JUNE 19, 2018, 9 a.m.-4:30 p.m. EDT
UNIVERSITY OF WATERLOO

SUGGESTED RESOURCES FOR GETTING STARTED

CCHS

Health Canada CCHS 2015 Guide: <https://www.canada.ca/en/health-canada/services/food-nutrition/food-nutrition-surveillance/health-nutrition-surveys/canadian-community-health-survey-cchs/2015-canadian-community-health-survey-nutrition-food-nutrition-surveillance.html>

Statistics Canada CCHS 2015 User Guide: available through the RDCs

Measurement error in dietary intake data

Measurement Error Webinar Series: <https://epi.grants.cancer.gov/events/measurement-error/>

- Check out webinar 1 for background (each webinar has a list of key terms and resources/references)
- Also see glossary for relevant terminology

Estimating distributions of usual intake

Theory

Dodd KW, Guenther PM, Freedman LS, Subar AF, Kipnis V, Midthune D, Tooze JA, Krebs-Smith SM. Statistical methods for estimating usual intake of nutrients and foods: a review of the theory. Journal of the American Dietetic Association. 2006 Oct 1;106(10):1640-50. <https://www.ncbi.nlm.nih.gov/pubmed/17000197>

NCI method description

Tooze JA, Midthune D, Dodd KW, Freedman LS, Krebs-Smith SM, Subar AF, Guenther PM, Carroll RJ, Kipnis V. A new statistical method for estimating the usual intake of episodically consumed foods with application to their distribution. Journal of the Academy of Nutrition and Dietetics. 2006 Oct 1;106(10):1575-87. <https://www.ncbi.nlm.nih.gov/pubmed/17000190>

Tooze JA, Kipnis V, Buckman DW, Carroll RJ, Freedman LS, Guenther PM, Krebs-Smith SM, Subar AF, Dodd KW. A mixed-effects model approach for estimating the distribution of usual intake of nutrients: The NCI method. Statistics in medicine. 2010 Nov 30;29(27):2857-68. <https://www.ncbi.nlm.nih.gov/pubmed/20862656>

NCI method sample application

Krebs-Smith SM, Guenther PM, Subar AF, Kirkpatrick SI, Dodd KW. Americans do not meet federal dietary recommendations. The Journal of nutrition. 2010 Aug 11;140(10):1832-8. <https://www.ncbi.nlm.nih.gov/pubmed/20702750>

NCI method code

<https://epi.grants.cancer.gov/diet/usualintakes/method.html>

NHANES Advanced Dietary Analyses: <https://www.cdc.gov/nchs/tutorials/dietary/advanced/index.htm>