

## Complex interventions

These interventions typically contain a number of components that can include multiple control and experimental groups, numerous techniques for delivering the intervention, a variety of groups for receiving the intervention and variability in terms of outcomes being assessed.

Complex interventions pose a significant challenge for researcher by way of introduction of error. Below are a few suggested readings that address fundamental issues related to the design and implementation of complex interventions:

- 1.)** Craig, P., Dieppe, P., Macintyre, S., Michie, S., Nazareth, I., & Petticrew, M. (2008). **Developing and evaluating complex interventions: the new Medical Research Council guidance**. *BMJ*, 337, a1655. doi: <http://dx.doi.org/10.1136/bmj.a1655>
- 2.)** Movsisyan, A., Melendez-Torres, G. J., & Montgomery, P. (2016). **Users identified challenges in applying GRADE to complex interventions and suggested an extension to GRADE**. *Journal of clinical epidemiology*, 70, 191-199.
- 3.)** Wilson, D. T., Walwyn, R. E., Brown, J., Farrin, A. J., & Brown, S. R. (2016). **Statistical challenges in assessing potential efficacy of complex interventions in pilot or feasibility studies**. *Statistical methods in medical research*, 25(3), 997-1009.
- 4.)** Gillies, C., Freemantle, N., Grieve, R., Sekhon, J., & Forder, J. (2016). **Advancing quantitative methods for the evaluation of complex interventions**. Doi: 10.3310/hsdr04160-37