Activities

# Chapter 4: Quantitative methodologies: An overview

## Activity 4.1

Read the following paper in which the relationship or correlation between smoking and lung cancer was first documented:

Doll, R. and Hill, A.B. (1950) Smoking and carcinoma of the lung, *British Medical Journal*, 2(4682): 739-748.

## Activity 4.2

These are the ages of the case study students:

Blessing 19

Edward 23

Rachel 32

Yoshi 19

Gloria 29

Simone 36

Darren 43

Work out the mean (average), median (middle value when the ages are placed in order) and mode (most commonly occurring age).

Calculate the mean, median and mode age of your group/cohort.

## Activity 4.3

For an example of a research study using a randomised controlled trial see:

Ohlsson-Nevo, E. Andershed, B. and Nilsson, U. (2016) Psycho-educational intervention on mood in patients suffering from colorectal and anal cancer: A randomized controlled trial, *Nordic Journal of Nursing Research,* doi.org/10.1177/2057158516679790

## Activity 4.4

For an example of research using the cohort study method see:

Grigg, C.P. Tracy, S.K. Tracy, M. Daellenbach, R. Kensington, M. Monk, A. and Schmied, V. (2017) Evaluating Maternity Units: a prospective cohort study of freestanding midwife-led primary maternity units in New Zealand—clinical outcomes, *BMJ Open,* 7:e016288. doi:10.1136/bmjopen-2017-016288

## Activity 4.5

For an example of a research study using the case-control method see:

Amiri, F.N. Faramarzi, M. and Bakhtiari, A. (2018) Risk Factors for Gestational Diabetes Mellitus: A Case-Control Study, *American Journal of Lifestyle Medicine,* doi.org/10.1177/1559827618791980

## Activity 4.6

For an example of a pilot study using the survey method see:

Mivšek, P. Äimälä, A-M. Žvanut, B. and Tuomi, J. (2018) Midwifery students’ well-being among undegraduates in Slovenia: A pilot study, Midwifery, 61: 63-65

## Activity 4.7

Identify a topic from practice that you think would be appropriate for an RCT. Why would an RCT be an appropriate research method to investigate this topic?

Identify a topic from practice that you think would be appropriate for a cohort study. Why would a cohort study be an appropriate research method to investigate this topic?

Identify a topic from practice that you think would be appropriate for a case-control study. Why would a case-control study be an appropriate research method to investigate this topic?

Identify a topic from practice that you think would be appropriate for a survey. Why would a survey be an appropriate method to investigate this topic?