

SCIE1000 Tutorial sheet 7

This tutorial contributes toward your final grade; see the Course Profile (https://www.uq.edu.au/study/course.html?course_code=SCIE1000). The tutorial will be marked out of 6, with all marks awarded for completing the "Before class" work.

Goals: This week the tutorial will cover philosophy of science. There is no Python, and no mathematical or scientific questions, apart from the "Before class" work.

To be completed before class

Complete the following questions before class, write (or type if you wish) your answers on a sheet of paper, put your name and student number on the top of the paper, and hand it to your tutor as you enter the room. **If you do not hand in the answers at the start of the class, as you enter the room, then you will lose the marks for this component.** Note that in some cases there are no "right" or "wrong" answers.

Question (1)

Breast screening using mammography is a common technique for identifying women who may show signs of developing breast cancer. In many geographical locations, including Queensland, women in certain age groups (such as 50-69) are encouraged to undergo periodic free screening, typically every two years. However, there is conflicting information and varying opinions regarding the effectiveness of breast screening as a population-wide measure. In this question you will read and respond to two information leaflets, both published by very reputable bodies.

1. The *Australian Government Department of Health* (<http://www.cancerscreening.gov.au/internet/screening/publishing.nsf/Content/breast-screening-1>) has published the leaflet *BreastScreen and You* (<http://www.cancerscreening.gov.au/internet/screening/publishing.nsf/Content/194B6BD076D4A6F9CA257D7>). Read and think about all of the leaflet, with a focus on Pages 13-18. Take some useful notes about what it says in general, and on those pages in particular. (There may be questions relating to this on the final exam.) What key messages, viewpoints or feelings did you take from the leaflet? Would you be inclined to advise a woman in the age range 50-69 to undergo a mammogram as part of a population-wide measure? Give reasons for your answer.
2. The *Nordic Cochrane Centre* (<http://nordic.cochrane.org/about-us>) has published the leaflet *Screening for breast cancer with mammography* (<http://nordic.cochrane.org/sites/nordic.cochrane.org/files/public/uploads/images/mammography/mammograph%20leaflet.pdf>). Read and think about all of this leaflet, and take some useful notes about what it says. (There may be questions relating to this on the final exam.) What key messages, viewpoints or feelings did you take from the leaflet? Would you be inclined to advise a woman in the age range 50-69 to undergo a mammogram as part of a population-wide measure? Give reasons for your answer.
3. Briefly compare and contrast the information and messages in the leaflets. Is either leaflet more useful or informative? Were there inconsistencies in information? Did you form different views or feelings from each one? Would you suggest changes to either or both, to improve accuracy or usefulness?



To be completed in class

In class this week you will work on questions relating to philosophy of science. These questions will be distributed in class.

Feedback: Be proactive!

Australian government research shows that students often feel they don't receive adequate feedback on their work. In a class of 800 students, it is not possible for the course coordinator to give direct feedback to each student. Instead, tutorial classes are designed to be the place in which you can get feedback on your work from classmates and the tutors. You can ask for help, show them your answers, and discuss your understanding of any of the course material. As an adult learner, the onus is on **you** to seek feedback; tutors and classmates are happy to give it, if you want it.