



Statement of participation

Michael Frank

has completed the free course including any mandatory tests for:

Predictive medicine

This 4-hour free course showed how advances in genetics, such as gene chips technology, could change the way that diseases are diagnosed and managed.

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www.open.edu/openlearn

This statement does not imply the award of credit points nor the conferment of a University Qualification. This statement confirms that this free course and all mandatory tests were passed by the learner. Please go to the course on OpenLearn for full details:
<http://www.open.edu/openlearn/science-maths-technology/science/health-sciences/predictive-medicine/content-section-0>

COURSE CODE: SK195_6



Predictive medicine

<http://www.open.edu/openlearn/science-maths-technology/science/health-sciences/predictive-medicine/content-section-0>

Course summary

In this free course, Predictive medicine, you will learn how advances in genetics could change the way in which diseases are diagnosed and managed. The advent of predictive medicine, based on more detailed DNA profiling of individual genotypes using technologies like gene chips, rather than screening for one gene at a time, may shift the relationship between doctor and patient. People will be seeking advice on how to manage their susceptibilities or genetic risks, rather than looking for treatment for an already existing disorder.

Learning outcomes

By completing this course, the learner should be able to:

- understand some of the ways in which genetic knowledge could affect medical practice, in particular in relation to predictive medicine
- understand how populations are screened for conditions such as phenylketonuria and whether screening could be used for carriers of recessive genetic disorders such as cystic fibrosis
- understand how gene chips may be used to screen for large numbers of genes at once, making it possible to predict the likelihood of developing certain diseases and how people may react to such predictions
- understand the implications for the health services.

Completed study

The learner has completed the following:

Section 1

Genetics and healthcare

Section 2

Conclusion