



Institute for Health Research

THE UNIVERSITY OF NOTRE DAME AUSTRALIA

For the health and wellbeing of people and communities in need.

It's time to understand....

LOGISTIC REGRESSION

Wednesday 17th July 2019, 1.00pm - 5.00pm

Please RSVP by Tuesday 9th July 2019

Logistic regression models are part of the family of generalized linear models which can be used when the dependent variable is binary. Sooner or later, you're going to have to answer a research question with a binary dependent variable, for example:

- Did a physical therapy intervention improve the likelihood that athletes with a knee injury were able to return to play within the same season?
- Five years after a person is diagnosed with cancer, is he or she still alive post-surgery?

So what *do* you do? The answer - Logistic regression: a researcher's best friend when it comes to categorical outcome variables. Understanding logistic regression will require some new statistical concepts, but we assure you, if you have used linear regression you will understand logistic regression.

Workshop Presenters:

Prof. Max Bulsara

Chair in Biostatistics, Institute for Health Research, University of Notre Dame Australia, Fremantle

Dr Dana Hince

Research Biostatistician, Institute for Health Research, University of Notre Dame Australia, Fremantle

Assoc/Prof Katrina Spilsbury

Research Biostatistician, Institute for Health Research, University of Notre Dame Australia, Fremantle

Ms Angela Jacques

Research Biostatistician, Institute for Health Research, University of Notre Dame Australia, Fremantle

Who is this Workshop for?

This workshop is for you if you have attempted logistic regression but found it difficult and confusing, or you have used linear regression and want to expand your knowledge. Suitable for doctors, nurses, allied health professionals, researchers, academics, service staff and students, who want to understand concepts and techniques of statistical modelling and intends to use Stata software to analyse their research data.

Pre-requisites:

This is a follow-up to the Introduction to Stata workshop. It assumes a basic working knowledge of Statistics.

Aim:

This course will provide you with a thorough and practical understanding of logistic regression modelling. You will learn everything you need to know to become a skilled user of logistic regression.

Teaching Method:

Presentation, lecture, demonstration, hands-on exercises, question and answer sessions, discussions.

Learning Outcomes:

- Review of linear model
- Dichotomous dependent variables in linear regression
- Odds and odds ratios
- The logistic (logit) regression model
- Estimating the logit model with Stata.
- Interpreting logit coefficients
- Generalized R-square and other measures of fit
- Factor and class variables

Workshop Enrolment:

Numbers are limited and places are reserved on a first come, first-served basis. **Please note**, there are no costs.

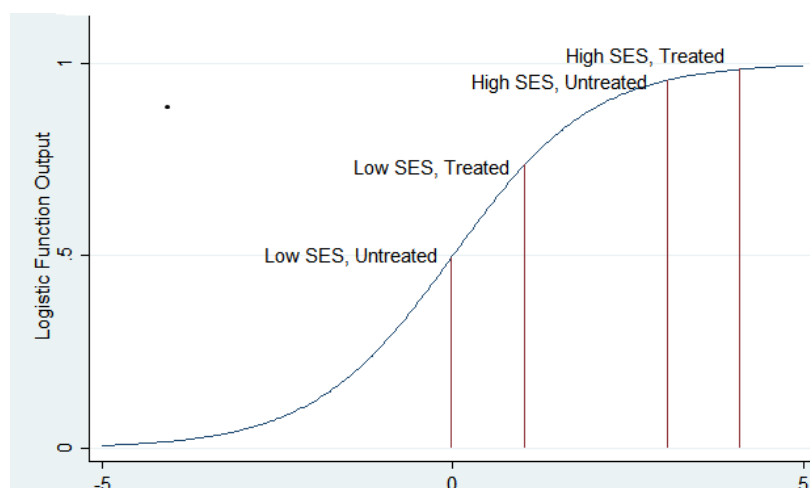
To ensure you secure a place, please email Louisa Smith your registration form.

Louisa Smith, email louisa.smith@nd.edu.au , Ph. (08) 9433 0105

Successful attendees will be notified shortly after registration form is received.

Workshop Venue:

University of Notre Dame
ND49/103 (ground level of the old Customs Building)
Cnr Phillimore and Henry Street
Fremantle





Institute for Health Research

THE UNIVERSITY OF NOTRE DAME AUSTRALIA

For the health and wellbeing of people and communities in need.

Registration Form

LOGISTIC REGRESSION

Wednesday 17th July 2019, 1.00pm to 5.00pm

Please RSVP by Tuesday 9th July 2019

Successful attendees will be notified shortly after this registration form is received

For more information please contact:

Louisa Smith Ph. (08) 9433 0105 or, email louisa.smith@nd.edu.au

| | |
|---------------------|----------------------|
| Title | <input type="text"/> |
| Full Name | <input type="text"/> |
| Institution/Company | <input type="text"/> |
| Email Address | <input type="text"/> |
| Contact Number | <input type="text"/> |

Do you require any special access or mobility arrangements? _____

Have you ever used Stata before? _____

How would you describe your statistical skills? _____

What is your area of research? _____



THE UNIVERSITY OF
NOTRE DAME
AUSTRALIA

Enter through front door
ND49/103 on the ground floor

Fremantle Campus Map

