**What is the difference between statistical significance and clinical significance and how do you make decisions about the real-world relevance of either?**

This workshop is designed as an introductory level workshop for medical trainees who want to better understand how to interpret the reporting of statistical results. The workshop will delve into what is the research question, what is being estimated and interpretation of confidence intervals and p-values. Time to event outcomes will also be introduced as there are common outcome measures in cancer studies.

Designed for the non-statistician, it will explore ideas such as:

* defining your research question using the PICOT framework;
* the importance of effect sizes and confidence intervals;
* how to interpret confidence intervals and P-values and;
* interpretation and misuse of P-values, including selective reporting.

**Facilitators:** The day will be facilitated by Dr Karen Lamb and Professor Julie Simpson from the Methods and Implementation Support for Clinical and Health research (MISCH) Hub and Biostatistics Unit, Melbourne School of Population and Global Health (MSPGH), The University of Melbourne.

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| **TIME** | **TOPIC** |  **FACILITATOR** |
| 9.00 am | Welcome and acknowledgements | Dr Vino Pillay, Program Manager, Distributed Leadership, VCCC Alliance |
|  | Sponsor presentation: Lonsurf in mCRC and mGC | Esme Munro, Key Account Manager (Solid Tumours - VIC/TAS/SA/WA), Servier |
| 9:05am | Kicking off your research: how to craft a well-defined research question | Ms Fiona McManus, Biostatistics Unit, Centre for Epidemiology and Biostatistics, MSPGH |
| **10.15 am** | **BREAK** |  |
| 10:45 am | Effect size and confidence intervals for binary outcomes: interpretation and importance in reporting  | Dr Alistair McLean, MISCH Hub, Centre for Epidemiology and Biostatistics, MSPGH |
| **12.00 pm** | **LUNCH** |  |
| 1:00 pm | Time to event outcomes and rates  | Prof. Julie Simpson, MISCH Hub, Centre for Epidemiology and Biostatistics, MSPGH |
| 1.45 pm | Kaplan-Meier survival curves for visualising time to event outcomes | Prof. Julie Simpson, MISCH Hub, Centre for Epidemiology and Biostatistics, MSPGH |
| **2.30 pm** | **AFTERNOON TEA** |  |
| 3:00 pm | P-values: interpretation and misuse | Dr Sophie Zaloumis, MISCH Hub, Centre for Epidemiology and Biostatistics, MSPGH |
| 3:30 pm | Statistical significance vs clinical significance | Dr Karen Lamb, MISCH Hub, Centre for Epidemiology and Biostatistics, MSPGH |
| **4.30 pm** | Questions and closing statements from VCCC Alliance |  |
| **5:00 pm** | **FINISH** |  |

**Please register** [**here**](https://vcccalliance.org.au/events/biostatistics-workshop-october-1/)**.**