PROGRAM – Pwani R Training

10th Feb – Submit Presentations

WEEK ONE:- DAY	WEEK ONE:- DAY ONE – 15th Feb 2016		
Time	Description		
9.20 – 10.00am	Opening of workshop		
10.00 – 10.30am	Outline of course &		
	describing data, types and outcomes= Osman		
	BREAK		
11.30 – 1.00pm	Introduction to 'R' KEN MWAI/James		
	LUNCH		
2 – 3.30 pm	Introduction to 'R' KEN MWAI/James		
	BREAK		
4 – 4.30 pm	Introduction to 'R' KEN MWAI/James		
DAY TWO 16 th			
8.30 – 10.00am	Review of Monday's activities		
10.00 – 10.30am	Measures of data-brief lecture= Osman		
	BREAK		
11.30 – 1.00pm	Numerical explorations: means, SD Michael\James		
1	LUNCH		
2.00 - 3.00pm	Practical 1 Michael\James		
3.00 – 3.30 pm	Review of solutions to Practical 1 Michael\James		
_	BREAK		
4.00 – 5.00pm	Recap of the day's activities Michael\James		
DAY THREE -17 th	Feb 2016		
Time	Description		
8.00-9.00am	Review of assignment and other help		
9.00- 9.30am	Graphs- brief lecture James\Ken		
9.30 – 10.30am	Graphical exploration of data James\Ken		
	BREAK		
11.00-12.00pm	Practical on graphs James\Ken		
12.00pm-1.00pm	Review of practical on graphs James\Ken		
1 - 2.00 pm	LUNCH		
2.00pm- 2.30pm	Introduction to confidence intervals = David Mburu\Boniface		
2.30 - 3.00pm	Practical 3 on R and deskwork David Mburu\ Boniface		
1	BREAK		
3.00-3.30pm	Review of solutions to Practical 3 David Mburu\ Boniface		
3.30pm-4pm	T-test for single and paired data		

	t-test for unpaired data, testing two means David Mburu\
	Boniface
4.00-5.00pm	Practical 4 and solutions to practical 5 David Mburu\ Boniface
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DAY FOUR – 18 th F	<u>eb 2016</u>
8.00 – 9.00am	Review of assignment and other help David Mburu
9.00 – 9.35am	Binomial distribution: proportions, SE, 95%CI OSMAN
	hypothesis testing for single proportion OSMAN
	Difference in proportions, SE, 95% CI and
	hypothesis testing for a difference proportion OSMAN/
9.35 – 10.30am	Otiende/Alice
	BREAK
	Chi-squared tests and analyis. contigency tables OSMAN/
11.00-11.30am	Otiende/Alice
11.30 – 1.00pm	Practical 5 and review OSMAN/Otiende/Alice
	LUNCH
2.00 - 2.30pm	Effect estimated for binary data Alice
	RR, OR, 95% CI of RR and OR Alice / Osman / Otiende/
2.30-5.20pm	Practical 6 and 7 and review Alice/Osman/ Otiende/
	Day 5 – 19 th Feb 2016
8.00 – 9.00am	Assignment solutions and other help Otiende/Alice
9.00 – 9.30am	Continuation with help on assignments Otiende/Alice
9.30 – 9.45am	Risks and rates: person time Otiende/Alice
9.45 – 10.00am	Confidence interval for a rate Otiende/Alice
10.00 – 10.30am	Deskwork -practical 8 Otiende/Alice
70.00 TO.00	BREAK
	Comparing two rates- rate ratio
11.00 – 11.20am	Confidence intervals for rate ratios Otiende/Alice
11.20 – 11.40am	Making inferences from analysis Otiende/Alice
11.40 – 12.20pm	Practical 9 Otiende/Alice
12.20 – 1.00pm	Review of solutions of practical's Otiende/Alice
12.20 1.00pm	LUNCH
2.00 – 2.30pm	Plotting the data: assessing correlations- Alex/Alice/Otiende
2.30 – 3.00pm	Correlation Alex/Alice/Otiende
3.00 – 4.00pm	Practical 10 Alex/Alice/Otiende
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4.00 – 5.00pm	review of solutions for practical 10 Alex/Alice/Otiende

Week 2

	DAY 1 – 22 nd Feb 2016
8.00 – 9.00am	assignment and other help
	ANOVA KITI/David /Victor/Boniface
9.00 – 9.50am	
9.50 – 10.30am	Practical 11 – ANOVA KITI/David Mburu//Boniface
	BREAK
	Review of solutions for practical 11 KITI/David Mburu/Victor
11.00 – 11.45	Nyawanga
	LUNCH
2.00-2.30pm	Linear regression KITI/David Mburu//Boniface
	Practical and solutions for linear regression KITI/David
2.30 – 3.00pm	Mburu//Boniface
200 400	Diagnostics- residuals and model fit KITI/David
3.00 – 4.00pm	Mburu//Boniface
	DAY 2 – 23 rd Feb 2016
8.00 – 9.00am	Assignments and other help
0.00 0.20	Logistic model to estimate OR from binary exposure
9.00 – 9.30am	Ojal/Emily/James
0.20 0.45 am	Test null hypothesis of no exposure for binary exposure
9.30 – 9.45 am	Ojal/Emily/James
9.45-10.30 am	Practical - logistic models for binary variables Ojal/Emily/James BREAK
11.00-11.45am	Log. Regression to estimate OR for exposure with >2 levels Ojal/Emily/James
11.00-11.43aiii	Test hypothesis of no effect for each of the different levels
11.45-12.15pm	Ojal/Emily/James
11.15 12.15pm	Practical-log. Models for variables with >2 levels
12.15 – 1.00pm	Ojal/Emily/James
1	LUNCH
	Application of log.model on an unmatched case-control study
2.00 - 2.30pm	Ojal/James
2.30 – 3.45pm	Practical - interpretation of 'R' output Ojal/Emily/James
3.45 – 4.00pm	Effect modification - Likelihood ratio tests Ojal
4.00- 4.30pm	Practical Ojal/Emily/James
4.30- 5.00pm	Summary for the day
F	Day 3- 24 th Feb 2016
8.00 – 9.00am	assignments and other help – Emily/Ojal
8.00 – 9.00am	assignments and other neip – Emily/Ojai

9.00-9.30am	Recap of time-to-event data PHILIP/Alex Mutuku/ Victor
9.30 – 9.45am	Classical analysis of rates PHILIP/Alex Mutuku/ Victor
	Poisson regression for rates + practical PHILLIP/Alex Mutuku/
9.45 – 10.30am	Victor
	BREAK
	Hypothesis testing in Poisson regression PHILLIP/Alex
11.00-11.45am	Mutuku/ Victor
12.15-1.00pm	Desk work PHILLIP/Alex Mutuku
	LUNCH
2.00-2.30pm	Recap of time-to-event data PHILLIP/Alex Mutuku/ Victor
_	Practical- analysis of events over time PHILLIP/Alex Mutuku/
2.30-3.45pm	Victor
3.45-4.00pm	Solutions to practical PHILLIP/Alex Mutuku/ Victor
	Day 4- 25 th Feb 2016
8.00-9.00am	Assignments and other help
	Principles of multivariable regression analysis PHILIP
9.00-9.30am	/GPO/Tuju
9.30-10.00am	introduction- Interaction/effect modification PHILIP/GPO
	Detection/interpretation of interaction & effect modification
	PHILIP/GPO
	Effect modification and test for linear trend in Poiss. Regression
10.00-10.30am	PHILLIP/GPO
	BREAK
11.00-12.15pm	Practical PHILIP//GPO
12.15- 1.00pm	Confounding and stratification PHILIP//GPO
	LUNCH
2.00-2.45pm	Confounding II (logistic regression analysis) PHILIP//GPO
2.45-4.00pm	Practical - handling confounding PHILIP/GPO
4.00-4.30pm	Summary of day's activities GPO
1	Day 5 – 26 th Feb 2016
	Package management, Reproducible research including LaTeX
8.00-9.00am	GPO/James/Boniface
	Where you can find help ,support, information Boniface/James/
9.00-9.20am	GPO/
9.20-10.15am	Appraisal of scientific papers Ojal/David/Osman
	BREAK
	Presentation of by groups on scientific papers ALL
11.00-12.00pm	FACILITATORS
12.00 – 1.00pm	Summary - Appraisal of scientific papers Osman/Ojal/David