A Master Cours	e Class Style	Lecture	AM : E	ective 1 credit lective 1 credi lective 1 cred	ts	Fiscal	year	2020	
Course Title	Statistical Analysis of Medical and Numbering FB : GMDMFB10 Biological Data Code AM : GMDMAM1 GM : GMDMGM ²					MAM10	10		
Objectives	Learning how to	Learning how to analyze medical and biological data using statistical software (R)							
Semester	The second half of the 1 st Grade (intensive classes in the weekend and winter holidays)								
LocationIn the data room of Dept. of Epidemiology and Preventive Medicine, located or floor in the second building of Graduate School of Medical and Dental Sciences									
Couse Director KORIYAMA Chihaya (Department of Epidemiology and Preventive Medicine)									
GIO	Learning basic statistical analysis to conduct biomedical research								
S B OStudents completing the course will be able to1)summarize the data by descriptive statistics value2)explain the major probability distribution3)calculate a confidence interval of a population mean with normal distribution4)conduct statistical tests for continuous variables among groups5)compute and interpret simple/multiple regression models6)analyze the data of contingency tables								bution	
Outline (90 minutes x 15 lectures)							Instruc	tor	
 Using the free statistical software, R, students will learn the following analytical methods: 1. Descriptive statistics 2. Drawing of histogram, box-whisker plot, and scatter plot 3. Calculation of a confidence interval of a population mean with normal distribution 4. Comparison of continuous variables among groups 5. Regression analysis using a continuous variable as a dependent variable 6. Nonparametric test 7. Analysis of contingency tables 									
Teaching Materials Grading	Documents distr	Documents distributed							
Methods		Assignment (50%), attitude (30%), intelligibility (20%)							
Contact	Office hours	After class							
	E-mail	fiy@m.kufm.kagoshima-u.ac.jp							
Others	Please bring you	Please bring your note PC with you.							