

Modul designation	Biostatistic
Semester in which the module is taught	4th Semester of Academic/Bachelor Stage
Person responsible for the module	<ol style="list-style-type: none"> 1. Budiman, dr., MKM 2. Fajar A.Y.,dr., M.Epid 3. Siska Nia Irasanti, drg., MM
Language	Bilingual (Indonesia & English)
Relation to curriculum	Compulsory
Teaching methods	Lecture
Workload	<p>Total workload : 14 weeks</p> <p>Contact hours : Lecture 2 hours/meeting</p>
Credit points	3 ECTS (2 SKS)
Required & recommended prerequisites for joining the module	-
Module Objective	<p>At the end of course, students will be able to:</p> <ol style="list-style-type: none"> 1. Determine the function and benefits of statistics in the health sector based on the need for service improvement (C3) 2. Examining various classifications of data types and variables, measures of concentration and distribution, and presentation of the data used (C4) 3. Examining the various advantages and disadvantages of using data types and variables, measures of concentration and distribution, and presentation of the data used (C4) 4. Implement appropriate steps in research data management (C3) 5. Using the principles of validity and reliability of a research measuring instrument (C3) 6. Use research measuring instruments that are appropriate to the characteristics of the research respondents (C3) 7. Examining the differences between various types of probability in a research concept (C4) 8. Examining the results and probability interpretation of a research concept (C4) 9. Review various types of sampling size formulas based on the type of data and research objectives (C4) 10. Examining various appropriate sampling methods based on

	<p>the characteristics of the time and place at which the research data were obtained (C4)</p> <p>11. Review the principles of chi square, t-test, correlation, and regression statistical tests in research (C4)</p> <p>12. 12. Review the calculation and interpretation of chi square, t-test, correlation, and regression statistical tests in research (C4)</p>
Content	In this module, biostatistics skills will be introduced and trained to support the production of quality research.
Examination forms	Written Test Examination
Study and examination requirements	System Pass Criteria : minimum written test score 55.5 (C)
Reading list	<ol style="list-style-type: none"> 1. Sabri L, Hastono S.P, Statistik Kesehatan, 2010, Rajawali Press 2. Dahlan M. S, Statistik Untuk Kedokteran dan Kesehatan, 2008, Salemba Medika 3. Chandra B, Biostatistik Untuk Kedokteran dan Kesehatan, 2010, EGC 4. Dahlan M. S, Besar Sampel dan Cara Pengambilan Sampel, 2010, Salemba Medika 5. Swinscow T. D. V, Campbell M. J, Statistics at Square One 10th edition, 2002, BMJ Books 6. Sastroasmoro S, Ismael S, Dasar-dasar Metodologi Penelitian Klinis edisi-4, 2011, Sagung Seto 7. Lameshow S, Hosmer D. W, Klar J, Lwanga S, Besar Sampel Dalam Penelitian Kesehatan, 1997, Gadjah Mada University Press 8. Dahlan M. S. Membuat Proposal Penelitian Bidang Kedokteran dan Kesehatan. 2016. Sagung Seto 9. Takahashi S. Manga Guide to Statistics. 2008. Tokyo: No starch press 10. Petrie A, Sabin C. Medical Statistics at a Glance 2nd ed. 2005. Blackwell Publishing. 11. Peat, Jennifer. Barton, Belinda. Medical statistic, A guide to data analysis and critical appraisal. 2005. BMJ books