UNIVERSIDADE FEDERAL DO RIO DE JANEIRO
CENTRO DE CIÊNCIAS DA SAÚDE
INSTITUTO DE ESTUDOS EM SAÚDE COLETIVA
PROGRAMA DE PÓS-GRADUAÇÃO EM SAÚDE COLETIVA

DISCIPLINA: Estatística em Epidemiologia II	**CARGA HORÁRIA**: 45h
CÓDIGO: NSC701/ISC849	**NÍVEL DO CURSO**: Mestrado / Doutorado

EMENTA ESPECÍFICA: Esta disciplina tem como objetivo a apresentação dos métodos estatísticos mais comumente utilizados na pesquisa epidemiológica – particularmente para estudos comparativos e para análises de concordância (ou confiabilidade) –, além daqueles ainda pouco explorados na literatura. Os temas discutidos serão explorados não só sob seus aspectos teóricos, mas também enfatizando potencialidades, limitações e aplicações. Pretende-se, também, exemplificar as técnicas apresentadas por meio de um programa estatístico.

Bibliografia:

1. MEDRONHO, R.A., BLOCH, K.V., LUIZ, R.R., WERNECK, G.L. (Editores). **Epidemiologia**. 2 ed. São Paulo, Editora Atheneu, 2008.
2. GREENLAND, S. Concepts of validity in epidemiological research. In: HOLLAND, W.W., DETELS, R., KNOX, G. (eds.) **Oxford Textbook of Public Health**. 2 ed. Vol. 2. Methods of Public Health. New York, Oxford University Press, 1991.
3. FLANDERS, W.D., KLEINBAUM, D.G. Basic models for disease occurrence in epidemiology. **International Journal of Epidemiology**, 24:1-7, 1995.
4. KATZ, M.H. Multivariable analysis: a primer for readers of medical research. **Annals of Internal Medicine**, 138:644-650, 2003.
5. RUBIN, D.B. Estimating causal effects from large data sets using propensity scores. **Annals of Internal Medicine**, 127:757-63, 1997.
6. GREENLAND, S. Basic methods for sensitivity analysis of biases. **International Journal of Epidemiology**, 25(6):1107-16, 1996.
7. CHRISTENFELD, N.J.S., SLOAN, R.P., CARROL, D., GREENLAND, S. Risk factors, confounding, and the illusion of statistical control. **Psychosomatic Medicine**, 66:868-875, 2004.
8. CHAN, Y.H. Biostatistics 202: Logistic regression analysis. **Singapore Medical Journal**, 45:149-153, 2004
9. BLAND, J.M., ALTMAN, D.G. Statistical methods for assessing agreement between two methods of clinical measurement. **Lancet**, i:307-310, 1986.
10. De VET, H.C.W., TERWEE, C.B., BOUTER, L.M. Current challenges in clinimetrics. **Journal of Clinical Epidemiology**, 56:1137-1141, 2003.
11. LUIZ, R.R., COSTA, A.J.L., KALE, P.L., WERNECK, G.L. Assessment of agreement of a quantitative variable: a new graphical approach. **Journal of Clinical Epidemiology**, 56(10):593-597, 2003.
12. GREENLAND, S. Randomization, Statistics, and Causal Inference. **Epidemiology**, 1(6):421-9, 1990.
13. LUIZ, R.R., SZKLO, M. More than one statistical strategy to assess agreement of quantitative measurements may usefully be reported. **Journal of Clinical Epidemiology**, 58:215-216, 2005.
14. BUSSAB, W.O. **Análise de variância e regressão**. São Paulo, Atual, 1986.
15. CABRAL, M.D., LUIZ, R.R. Sensitivity analysis for unmeasured confounders using an electronic spreadsheet. **Rev Saude Publica**, 41(3):446-52, 2007.
16. CLARK, T.G. et al. Survival analysis Part 1: basic concepts and first analyses. **British Journal of Cancer**, 89:232-238, 2003.
17. GRAF, E. The propensity score in the analysis of therapeutic studies. **Biometrical Journal**, 39:297-307, 1997.
18. JOFFE, M.M., ROSEMBAUN, P.R. Invited commentary: propensity scores. **American Journal of Epidemiology**, 150(4):327-33, 1999.
19. LLORCA, J., DELGADO-RODRIGUEZ, M. Survival analytical techniques were used to assess agreement of a quantitative variable. **Journal of Clinical Epidemiology**, 58:314-315, 2005.
20. LUDBROOK, J. Statistical Techniques for comparing measurers and methods of measurements: a

critical review**. Clinical and Experimental Pharmacology and Physiology**, 29:527-536, 2002.
21. MÜLLER, B., BÜTTNER, P. A critical discussion of intraclass correlation coefficients. **Statistics in Medicine,** 13:2465-2476, 1994.
22. SZKLO, M., NIETO, F.J. **Epidemiology: beyond the basics**. 2 ed. Jones & Bartlett Publishers, 2007.
23. THOMPSON, W.D. Statistical criteria in the interpretation of epidemiologic data. **American Journal of Public Health**, 77(2):191-194, 1987.
24. VANDENBROUCKE, J.P. Should we abandon statistical modeling altogether? **American Journal of Epidemiology**, 126:10-13, 1987.
25. CONCATO, J., FEINSTEIN, AR., HOLFORD, T.R. The risk of determining risk with multivariable models. **Annals of Internal medicine**, 118:201-210, 1993.
26. SHROUT, PE., FLEISS, JL. Intraclass correlations: uses in assessing rater reliability. **Psychological Bulletin**, 86:420-428, 1979.
27. SHAH BR, LAUPACIS A, HUX JE, AUSTIN PC. Propensity score methods gave similar results to traditional regression modeling in observational studies: a systematic review. **Journal of Clinical Epidemiology**, 58:550-559, 2005.
28. SCHNEEWEISS S. Sensitivity analysis and external adjustment for unmeasured confounders in epidemiologic database studies of therapeutics. **Pharmacoepidemiology and Drug Safety,** 15:291-303, 2006.
29. DELGADO-RODRIGUEZ, M., LLORCA, J. Bias. **Journal of Epidemiology and Community Health**, 58:635-641, 2004.