

References

- Abdi, H. 2003. Factor rotations in factor analyses. In Lewis-Beck, M., Bryman, A., and Futing, T. (Editors), *Encyclopedia of Social Sciences Research Methods*. Thousand Oaks, CA, Sage, pp. 1-8.
- Acevedo-Garcia, D. 2001. Zip-code level risk factors for tuberculosis: neighborhood environment and residential segregation in New Jersey, 1985 – 1992. *American Journal of Public Health*, 91(5): 734-741.
- Ardkeaw, J., and Tongkumchum, P. 2009. Statistical modelling of childhood diarrhea in the north-eastern border region of Thailand. *Southeast Asian Journal of Tropical Medicine and Public Health*, 40(3): 807-815.
- Au-Yeung, C., Kanters, S., Ding, E., Glaziou, P., Anema, A., Cooper, C.L., Montaner, J.G.C., Hogg, R.S., and Mills, E.J. 2011. Tuberculosis mortality in HIV-infected individuals: cross-national systematic assessment. *Clinical Epidemiology*, 3: 21–29.
- Bacaër, N., Ouifki, R., Pretorius, C., Wood, R., and Williams, B. 2008. Modeling the joint epidemics of TB and HIV in a South African township. *Journal of Mathematical Biology*, 57: 557–593.
- Barnes, R.F.W., Moore, M.L., Garfein, R.S., Brodine, S., Strathdee, S.A., and Rodwell, T.C. 2011. Trends in Mortality of Tuberculosis Patients in the United States. *Annals of Epidemiology*, 21(10): 791-795.
- Barr, R.G., Diez-Roux, A.V., Knirsch, C.A., and Pablos-Mendez, A. 2001. Neighborhood poverty and the resurgence of tuberculosis in New York City, 1984 – 1992. *American Journal of Public Health*, 91(9): 1487-1493.
- Blower, S.M., Small, P.M., and Hopewell, P.C. 1996. Control Strategies for

- tuberculosis epidemics: new models for old problems. *Science*, 273: 497-500.
- Blower, S.M. and Gerderding, J.L. 1998. Understanding, predicting and controlling the emergence of drug resistance Tuberculosis: a theoretical framework *Journal of Molecular Medicine*, 76: 624-663.
- Borgdorff, M.W., Nagelkerke, N.J.D., Dye, C., and Nunn, P. 2000. Gender and tuberculosis: a comparison of prevalence surveys with notification data to explore sex differences in case detection. *International Journal of Tuberculosis and Lung Disease*, 4: 123-132.
- Browne, M.W. 2001. An overview analytic rotation in exploratory factor analysis. *Multivariate Behavioral Research*, 36: 111-150.
- Caminero, J.A. 2006. Treatment of multidrug-resistant tuberculosis: evidence and controversies. *International Journal of Tuberculosis and Lung Disease*, 10: 829-837
- Cox, D.R. 1972. Regression models and life tables (with discussion). *Journal of the Royal Statistical Society (B)*, 34: 187-220.
- Department of Health Services (DoHS). 2008. Annual Report (2066-67). Ministry of population and health, Government of Nepal, Kathmandu.
- Davies, P.D.O. 1997. Seasonality of tuberculosis. *Thorax*, 52(4): 398.
- Debanne, S.M., Bielefeld, R.A., Cauthen, G.M., Daniel, T.M., and Rowland, D.Y. 2000. Multivariate Markovian Modeling of Tuberculosis: Forecast for the United States. *Emerging Infectious Diseases*, 6(2): 148-157.
- Douglas, A.S., Strachan, D.P., and Maxwell, J.D. 1996. Seasonality of tuberculosis: the reverse of other diseases in the UK. *Thorax*, 51: 944-946.
- Dye, C., Espinal, M.A., Watt, C.J., Mbiaga, C., and Williams, B.G. 2002. Worldwide

- incidence of multidrug-resistant tuberculosis. *International Journal of Infectious Disease*, 185: 1197–1202.
- Dye, C., Garnett, G.P., Sleeman, K. and Williams, B.G. 1998. Prospects for worldwide Tuberculosis control under the WHO DOTS strategy: Directly Observed Short Course Therapy. *Lancet*, 352: 1886-1891.
- Dye, C. and Williams, B.G. 2000. Criteria for the control of drug resistance TB. *Proceedings of National Academy Science*, 97: 8180-8185.
- Dye, C., Lönnroth, K., Jaramillo, E., Williams, B.G., and Raviglione, M. 2009. Trends in tuberculosis incidence and their determinants in 134 countries. *Bulletin World Health Organization*, 87: 683–691.
- Dutt, A.K., and Stead, W.W. 1993. Tuberculosis in the elderly. *Medical Clinics of North America*, 77: 353–368.
- Espinal, M.A., Laserson, K., Camacho, M., Fusheng, Z., Kim, S.J., Tlali, E., Smith, I., Suarez, P., Antunes, M.L., George, A.G., Martin-Casabona, N., Simelane, P., Weyer, K., Binkin, N. and Raviglione, M.C. 2001. Determinants of drug resistant tuberculosis: analysis of 11 countries. *International Journal of Tuberculosis and Lung Disease*, 5: 887–893.
- Hadiarto, M., Tjandra, Y.A., and Hudoyo, A. 1996. Treatment of multidrug-resistant tuberculosis in Indonesia. *Chemotherapy*, 42: 24-29.
- Harries, A., Maher, D. and Uplekar, M. 1998. National Tuberculosis Programme of Nepal: A Clinical Manual. National Tuberculosis Centre, Government of Nepal, Bhakatpur.
- Holtgrave, D.R., and Crosby, R.A. 2004. Social determinants of TB case rates in the United States. *American Journal of Preventive Medicine*, 26: 159-162.

- Holtz, T.H., Sternberg, M., Kammerer, S., Kayla, F., Laserson, K.F., Riekstina, V., Zarovska, E., Skripconoka, V., Wells, C.D., and Leimane, V. 2006. Time to sputum culture conversion in Multidrug-Resistant Tuberculosis: predictors and relationship to treatment outcome. *Annals of Internal Medicine*, 144: 650-659.
- Hurtig, A.K., Pande, S.B., Porter, J.D., and Bam, D.S. 2000. Tuberculosis treatment and private practitioners, Kathmandu Valley. *Journal of Nepal Medical Association*, 39(133): 163-168.
- Jittimane, S., Vorasingha, J., Madasin, W., Nateniyoma, S., Rienthonga, S., and Varma, J.K. 2009. Tuberculosis in Thailand: epidemiology and program performance, 2001–2005. *International Journal of Infectious Disease*, 13: 436–442.
- Kakchapati, S., Yotthano, S., and Choonpradupb, C. 2010. Modeling tuberculosis incidence in Nepal. *Asian Biomedicine*, 4(2): 355-360.
- Karim, M.K. 2007. Age-period-cohort analysis and spatial patterns of Tuberculosis incidence in Bangladesh. *Thesis*.
- Kilicmana, A., and Roslanb, U.A.M. 2009. Tuberculosis in the Terengganu region: Forecast and data analysis. *Science Asia*, 35: 392–395.
- Kistemann, T., Munzinger, A., and Dangendorf, F. 2002. Spatial patterns of tuberculosis incidence in Cologne. *Social Science & Medicine*, 55: 7–19.
- Kliiman, K., and Altraja, A. 2009. Predictors of poor treatment outcome in multi- and extensively drug-resistant pulmonary TB. *European Respiratory Journal*, 33(5): 1085-1094
- Kolappan, C., Subramani, R., Karunakaran, K., and Narayanana, P.R. 2006.

- Mortality of tuberculosis patients in Chennai, India. *Bulletin of the World Health Organization*, 84: 555-560.
- Kongchouy, N., Kakchapati, S., and Choonpradub, C. 2010. Modeling the incidence of Tuberculosis in Southern Thailand. *Southeast Asian Journal of Tropical Medicine and Public Health*, 48(3): 574-582.
- Kourbatova, E.V., Borodulin, B.E., Borodulina, E.A, del Rio, C., Blumberg, H.M., and Leonard, M.K. 2006. Risk factors for mortality among adult patients with newly diagnosed tuberculosis in Samara, Russia. *International Journal of Tuberculosis and Lung Disease*, 10(11): 1224–1230.
- Lee, R. D., and Carter, L. R. 1992. Modeling and forecasting U.S. Mortality. *Journal of the American Statistical Association*, 87(419): 659-671.
- Lee, R.D., and Miller, T. 2001. Evaluating the performance of the Lee-Carter method for forecasting mortality. *Demography*, 38: 537–549.
- Legrand, J., Sanchez, A., Le Pont, F., Camacho, L., and Larouze, B. 2008. Modeling the impact of tuberculosis control strategies in highly endemic overcrowded prisons. Acceleration the publication of peer-reviewed science *PLoS ONE*, 3: e2100.
- Lopez, A.D., Mathers, C.D., Ezzati, M., and Murray, C.J. 2006. Global and regional burden of disease and risk factors, 2001: systematic analysis of population health data. *Lancet*, 367: 1747-1757.
- Löytönen, M. and Maasilta, P. 1998. Multi-drug resistant tuberculosis in Finland-a forecast. *Social Science and Medicine*, 46(6): 695-702
- Lubart, E., Lidgi, M., Leibovitz, A., Rabinovitz, C., and Segal, R. 2007. Mortality of Patients Hospitalized for Active Tuberculosis in Israel. *Israel Medical*

Association Journal, 9: 870–873

Malla, P., Kanitz, E.E., Akhtar, M., Falzon, D., Feldmann, K., Gunneberg, C., Jha, S.S., Maharjan, B., Prasai, M.K., Shrestha, B., Verma, S.C., and Zignol, M.

2009. Ambulatory-Based Standardized Therapy for Multi-Drug Resistant

Tuberculosis: Experience from Nepal, 2005–2006. Acceleration the

publication of peer-reviewed science *PoLS Med*, 4(12): e8313.

Mardia, K.V., Kent, J.T., and Bibby, J.M. 1979. Multivariate analysis. 2nd ed, United States: Academic Press Inc.

Martinez, A.N., Rhee, J.T., Small, P.M., and Behr, M.A. 2000. Sex differences in the epidemiology of tuberculosis in San Francisco. *International Journal of Tuberculosis and Lung Disease*, 4: 26-31.

McNeil, D. 1996. Epidemiological research methods. New York: John Wiley & Sons, Ltd.

McNeil, D. 1998b. Modern statistics: A graphical introduction. Sydney, Australia: Macquarie University.

Mirsaeidi, S.M., Tabarsi, P., Khoshnood, K., Pooramiri, M.V., Rowhani-Rahbar, A.,

Mansoori, S.D., Masjedi, H., Zahirifard, S., Mohammadi, F., Farnia, P.,

Masjedi, M.R., and Velayati, A.A. 2005. Treatment of multiple drug-resistant

tuberculosis (MDR-TB) in Iran. *International Journal of Infectious Disease*, 9: 317-322.

Mukherjee, J.S., Rich, M.L., Socci, A.R., Joseph, J.K., Virú, F.A., Shin, S.S., Furin, J.J., Becerra, M.C., Barry, D.J., Kim, J.Y., Bayona, J., Farmer, P., Smith

Fawzi, M.C., and Seung, K.J. 2004. Programmes and principles in treatment of multidrug-resistant tuberculosis. *Lancet*, 363: 474-481.

- Murphy, M.J., and Cesare, M.D. 2009. Forecasting mortality, different approaches for different cause of deaths? The cases of lung cancer; influenza, pneumonia, and bronchitis; and motor vehicle accidents. *British actuarial journal*, 15:65-71.
- National Tuberculosis Center (NTC). 2010. National Tuberculosis Control Programme. *Annual Report*. Ministry of Population and Health, Government of Nepal, Bhaktapur.
- Nunes, C. 2007. Tuberculosis incidence in Portugal: spatiotemporal clustering. *International Journal of health Geographics*, 6: 30.
- Orenstein, E.W., Basu, S., Shah, S., Andrews, J.R., Friedland, G.H., Moll, A.P., Gandhi, N.R., and Galvani, A.P. 2009. Treatment outcomes among patients with multidrug-resistant tuberculosis: systematic review and meta-analysis *The Lancet Infectious Diseases*, 9(3): 153 - 161
- Park, S.K., Kim, C.T., and Song, S.D. 1998. Outcome of chemotherapy in 107 patients with pulmonary tuberculosis resistant to isoniazid and rifampin. *International Journal of Tuberculosis and Lung Disease*, 2: 877-884.
- Peto, R., and Peto, J. 1972. Asymptotically efficient rank invariance test procedures (with discussion). *Journal of the Royal Statistical Society (A)*, 135; 185-206.
- R Development Core Team. R: A language and environment for statistical computing. Vienna, Austria: R Foundation for Statistical Computing, 2008. [Cited 2008 Feb 8]. Available from: URL: <http://www.R-project.org>
- Rangan, S., Gupte, H., Bandiwadekar, A., and Girishambe. 2003. Tackling tuberculosis in urban areas: experiences from Mumbai city. *Health Administrator*, 15(1-2): 72-79.

- Rios, M., Garcia, J.M., Sanchez, J.A., and Perez, D. 2000. A statistical analysis of the seasonality in pulmonary tuberculosis. *European Journal of Epidemiology*; 16: 483–488.
- Salvadó, M., Garcia-Vidal, C., Vázquez, P., Riera, M., Rodríguez-Carballeira, M., Martínez-Lacasa, J., Cuchi, E., and Garau, J. 2010. Mortality of tuberculosis in very old people. *Journal of American Geriatric Society*, 58(1): 18-22.
- Seung, K.J., Omatayo, D.B., Keshavjee, S., Furin, J.J., Farmer, P.E., and Satti, H. 2009. Early Outcomes of MDR-TB Treatment in a High HIV-Prevalence Setting in Southern Africa. Acceleration the publication of peer-reviewed science *PLoS ONE* 4(9): e7186.
- Tahaoglu, K., Törün, T., Sevim, T., Atac, G., Kir, A., Karasulu, L., Ozmen, I., and Kapakli, N. 2001. The treatment of multidrug-resistant tuberculosis in Turkey. *New England Journal of Medicine*, 345: 170-174.
- Tongkumchum, P., and McNeil, D. 2009. Confidence intervals using contrasts for regression model. *Sonklanakarin Journal of Science and Technology*, 31(2): 151-156.
- Tupasi, T.E., Radhakrishna, S., Quelapio, M.I.D., Villa, M.L.A., Pascual, M.L.G., Rivera, A.B., Sarmiento, A., Co, V.M., Sarol, J.N., Beltran, G., Legaspi, J.D., Mangubat, N.V., Reyes, A.C., Solon, M., Solon, F.S., Burton, L., and Mantala, M.J. 2000. Tuberculosis in the urban poor settlements in the Philippines. *International Journal of Tuberculosis and Lung Disease*, 4: 4-11.
- Uthman, O.A. 2008. Spatial and Temporal Variations in Incidence of Tuberculosis in Africa, 1991 to 2005. *World Health Population*, 10(2): 5-15.
- Uthman, O.A, Yahaya, I., Ashfaq, K., and Uthman, M.B. 2009. A trend analysis and

sub-regional distribution in number of people living with HIV and dying with TB in Africa, 1991 to 2006. *International Journal of Health Geographics*, 8: 65.

Venables, W.N., and Ripley, B.D. 2002. *Modern Applied Statistics with S* (4th ed.). New York: Springer-Verlag.

Vynnycky, E., and Fine, P.E. 1997. The natural history of Tuberculosis: the implications of age dependant risks of disease and the role of re infection. *Epidemiology Infectious*, 119: 183-201.

Wibulpolprasert, S. 2007. *Thailand health profile 2005–2007*. Bangkok: Printing Press, The War Veterans Organization of Thailand.

Williams, B.G., Granich, R., Chauhan, L.S., Dharmshaktu, N.S., and Dye, C. 2005. The impact of HIV AIDS on the control of tuberculosis in India. *Proceedings of National Academy of Sciences*, 102(27): 9619-9624.

World Atlas [<http://www.worldatlas.com/>] (on line) [cited 2010 August 17].

Available from: <http://www.worldatlas.com/webimage/countrys/asia/np.htm>.

World Atlas [<http://www.worldatlas.com/>] (on line) [cited 2010 March 30].

Available from: <http://www.worldatlas.com/webimage/countrys/asia/th.htm>.

World Health Organization. 2001. TB towards a TB-free future. *WHO report 2001*. WHO/CDS/STB/2001.13 Geneva, Switzerland.

World Health Organization. 2008. Global Tuberculosis Control: surveillance, planning, financing. *WHO report 2008* WHO/HTM/TB/2008.376 Geneva, Switzerland.

World Health Organization. 2009. Tuberculosis Control in South East Asia Region. *WHO Annual report 2009* Geneva, Switzerland.