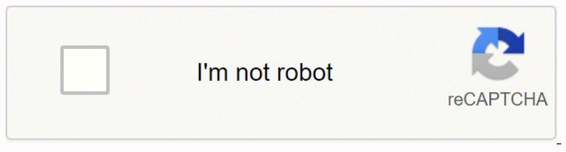

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Bayesian survival analysis: comparison of survival probability of hormone receptor status for breast cancer data

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Abstract: Survival analysis is a family of statistical procedures for data analysis for which the outcome variable of interest is time until an event occurs. The Cox model is the most widely used survival model in health sciences, but it is not the only model, parametric models in which the distribution of the event is specified in terms of unknown parameters. Over the last few years, there has been increased interest shown in the application of survival analysis based on Bayesian methodology. In this article, we consider Bayesian survival analysis to compare survival probability of hormone receptor status for breast cancer based on lognormal distribution estimated survival function. The Bayesian approach is implemented using WinBugs.

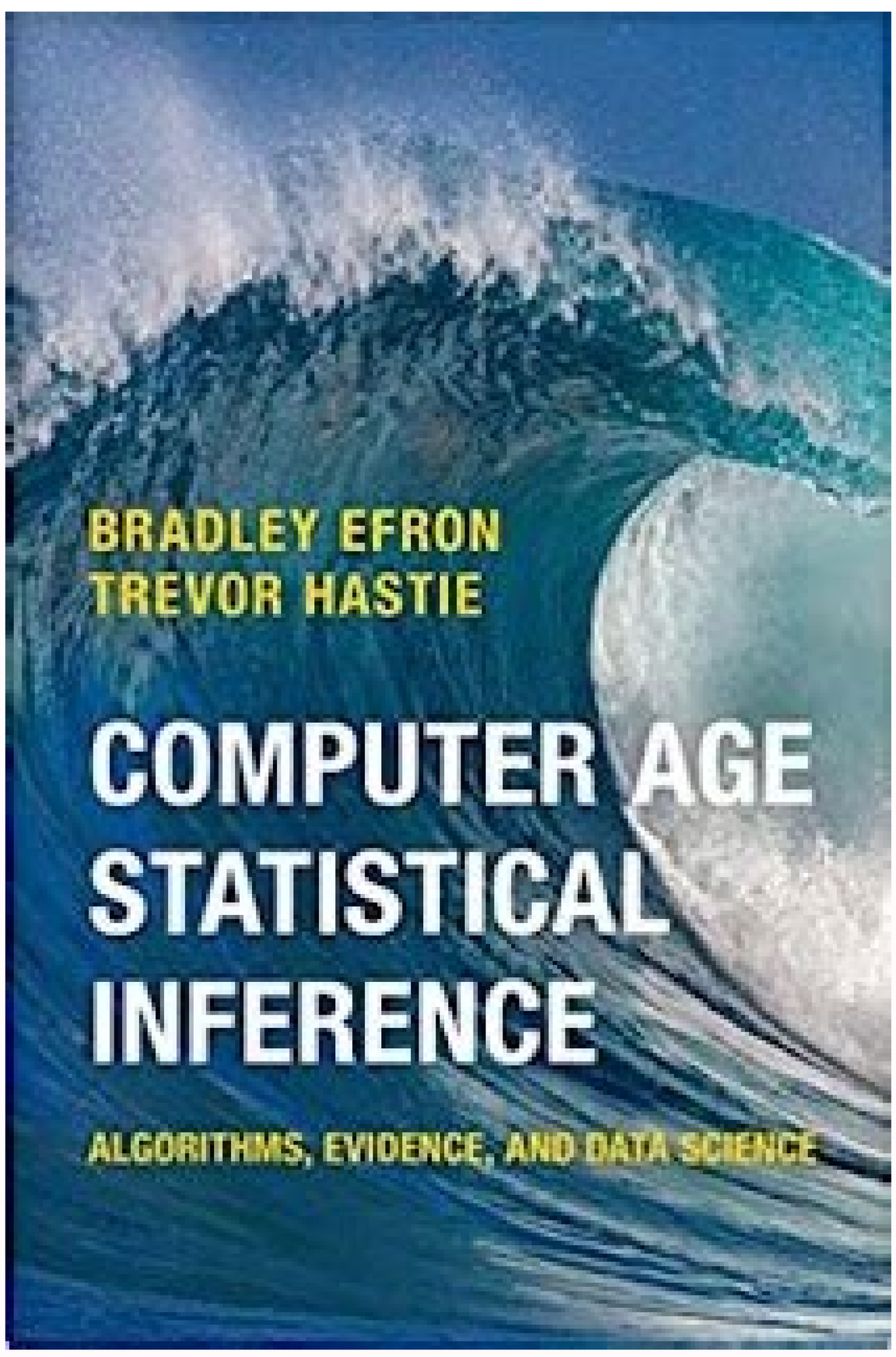
Keywords: Bayesian survival analysis; survival function; hormone receptor status; breast cancer.

Reference to this paper should be made as follows: Avcı, E. (2017) 'Bayesian survival analysis: comparison of survival probability of hormone receptor status for breast cancer data', *Int. J. Data Analysis Techniques and Strategies*, Vol. 9, No. 1, pp.63–74.

Biographical notes: Esin Avcı is an Assistant Professor specialising in Statistics. She held previous faculty positions at Sinop University as a Research Assistant. Her areas of interest and expertise are in Bayesian survival analysis; and in generalised statistical methods involving count data that contain data dispersion.

1 Introduction

Survival analysis deals with analysis of time duration to until one or more events happen. The Cox proportional hazards (PHs) model is popular model for analysing survival data because it is not based on any assumptions concerning the nature or shape of the underlying survival distribution. The utility of this model stems from the fact that few assumption are needed to determine hazard ratios based on the coefficients. The coefficient is easily interpreted and clinically meaningful (Hosmer and Lemesow, 1989). There are parametric survival models for which the restrictive assumption of hazards is not required. A parametric survival model is one in which survival time is assumed to follow a known distribution. Exponential, Weibull, lognormal, log-logistic and



International Medicine 2019; 1(5): 254-266

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Original Article

Prognostic and therapeutic implications of lysyl oxidase and cyclooxygenase 2 expressions in epithelial ovarian carcinoma

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Received: 01 June 2019 / Accepted: 09 July 2019

Abstract

Background: New prognostic and predictive biomarkers for better choice and improving the current therapies for ovarian cancer are greatly needed. This study aimed to investigate the prognostic and therapeutic importance of lysyl oxidase (LOX) and cyclooxygenase 2 (COX2) expressions in epithelial ovarian carcinoma.

Methods: We performed immunohistochemical analysis on formalin-fixed paraffin sections of epithelial ovarian tumors. The association between their expressions in epithelial ovarian carcinoma (EOC) with the survival as well as response to chemotherapy was analyzed.

Results: The frequency of the nuclear expression of LOX and cytoplasmic expression of COX2 was significantly higher in malignant tumors than in benign and borderline tumors. Also, there were statistically significant relationships between pathological grades and both LOX and COX2 positivity in EOC being at the higher end for poorly differentiated tumors. Both LOX and COX2 expressions were also correlated significantly with higher tumor stage. Overexpression of either LOX or COX2 in EOC was significantly associated with poor survival. Moreover, LOX and COX2 positive expressions in EOC were associated with poor response to chemotherapy.

Conclusions: The increased expressions of LOX and COX2 in EOC are associated with several adverse clinicopathologic parameters, including reduced survival and chemotherapy resistance thus suggesting a role for such biomarkers in disease progression.

Keywords: cancer, cyclooxygenase 2, lysyl oxidase, ovary, prognosis

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DOI: 10.5455/im.51649

Abdel-Tawab et al. Egyptian Journal of Radiology and Nuclear Medicine
(2021) 52:149
https://doi.org/10.1186/s43055-021-00525-x

Egyptian Journal of Radiology and Nuclear Medicine

RESEARCH Open Access

A simple chest CT score for assessing the severity of pulmonary involvement in COVID-19

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Abstract

Background: A major role of CT in COVID-19 pneumonia is to assess disease severity and progress. In this study, we aimed to assess the validity, reliability, and survival outcomes of simple chest computed tomography (CT) score in the evaluation of the severity of lung involvement in coronavirus disease 2019 (COVID-19) compared with the current chest CT score.

Results: This retrospective analysis included 213 patients (121 men and 92 women; mean age, 46 ± 15.6 years; range, 1–85 years). The ROC curve was used to compare the validity of both scores. Interreader agreement (IRA) for both scores was calculated using Cohen's kappa statistic. The survival analysis of both scores was investigated using the Kaplan–Meier survival analysis. The simple score showed a comparable validity with the current score (AUC = 0.89 and 0.90, respectively; $p = 0.61$). The ROC analysis demonstrated that a simple score of > 3 and a current score of > 12 were potential predictors of death with sensitivity values of 81.8% and 86.4% and specificity values of 96.3% and 93.7%, respectively. The simple score showed a higher IRA compared with the current score (κ = 0.645 and 0.458, respectively). Both scores were comparable for predicting survival outcomes.

Conclusion: The simple score was non-inferior for predicting survival outcome, compared with the current chest CT score. Furthermore, we suggest that the simple score should be used as it is simpler and more consistent.

Keywords: Protein corona, Pneumonia, viral, Tomography, X-ray computed, Validation study, Reproducibility of results

Background

Since the outbreak and the global spread of acute respiratory syndrome in Wuhan, China, in late December 2019 [1], the World Health Organization has announced coronavirus disease 2019 (COVID-19) as a pandemic in March 2020 [2]. COVID-19 continues spreading all over the world, reaching 215 countries with greater than 115 million cases and 2.5 million deaths as of March 2, 2021 [3], which represents a significant challenge to international health agencies [4]. As of now, the world is facing a second-wave outbreak of COVID-19 [5] that urges us to refine our management plans.

The severity of COVID-19 in patients at risk should be classified to prioritize medical resources in hospitals, especially when resources and medical staff are limited [6]. Several studies have developed severity scoring systems that evaluate the percentage of pulmonary involvement in COVID-19 [7–10]. The computed tomography (CT) severity score (CT-SS) was developed by Yang et al. [7]. The score is an adaptation of a method previously used during the severe acute respiratory syndrome epidemic in 2005 [11]. The 18 segments of both lungs were divided into 20 regions in this score. Then, the lung opacities were subjectively assessed on chest CT in all of the 20 lung regions. Each region was given 0, 1, or 2 points based on the parenchymal opacification involved: 0%, 1–50%, or 51–100%, respectively. The overall

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Characteristic	Joint model	
	longitudinal sub-model	survival sub-model
Age, years	−0.09 (−0.16, −0.02)	−0.02 (−0.03, −0.02)
Sex	0.43 (−1.37, 2.22)	−0.10 (−0.21, 0.02)
Interview	−1.04 (−2.91, 0.82)	−0.20 (−0.32, −0.09)
African-American	6.85 (5.03, 8.68)	0.27 (0.16, 0.38)
ICED (2)	−3.61 (−5.77, −1.45)	−0.31 (−0.46, −0.17)
ICED (3)	−5.45 (−7.62, −3.28)	−0.46 (−0.60, −0.31)
Duration, years	0.07 (−0.13, 0.26)	−0.01 (−0.03, −0.00)
Serum albumin, mg/dl	7.63 (5.00, 10.27)	0.79 (0.62, 0.96)
BMI	−0.01 (−0.18, 0.15)	0.03 (0.02, 0.04)
Sleeping pill	−7.61 (−9.60, −5.62)	−0.11 (−0.23, 0.01)
Time, years	−1.57 (−1.94, −1.21)	–
Flux group	0.79 (−0.92, 2.49)	0.02 (−0.08, 0.13)
Ku'V group	0.34 (−1.37, 2.05)	0.06 (−0.04, 0.17)
Model association*	–	0.01 (0.01, 0.02)

AvcÄ±, â€œBayesian survival analysis: comparison of survival probability of hormone receptor status for breast cancer data,â€ IJDATS, vol. Al-Shomrani, A. Howlader, â€œBayesian inference and prediction of the inverse Weibull distribution for Type-II censored data,â€ Computational Statistics & Data Analysis, vol. 1547â€“1558, Jun. 1, pp. â€¦ this is definitively a worthwhile read for any statistician specializing in survival analysis. 6, no. S. Bolstad and J. 47, 2005) Joseph G. Oguntunde, â€œA Comparison between Maximum Likelihood and Bayesian Estimation Methods for a Shape Parameter of the Weibull-Exponential Distribution,â€ AJPAS, pp. Shawky, O. â€¦ The authors offer a gentle journey through the archipelago of Bayesian Survival analysis. 44 (2), 2002)"This book provides a comprehensive treatment of Bayesian survival analysis. â€¦ I hope that this stimulating book may tempt many readers to enter the field of Bayesian survival analysis â€¦ ." (Ulrich Mansmann, Metrika, September, 2004)"It offers a presentation of Bayesian methods in Survival Analysis that is, at a time, comprehensive and suitably balanced between theory and applications; many relevant models and methods are illustrated and most of them are provided with detailed examples and case studies drawn from the medical research. A. The book is written for researchers and graduate students. 113â€“124, 2012. This book focuses exclusively on medicine and public health but the methods presented can be applied in a number of other areas, including biology, economics and engineering. It is pitched so that part of it is readily usable by the medical statisitciann, but it will also provide stimulation for statisticians involved in methodological development or the writing of new software for survival analysis." International Journal of Epidemiology"Many books have been published concerning survival analysis or Bayesian methods; Bayesian Survival Analysis is the first comprehensive treatment that combines these two important areas of statistics. 2016, doi: 10.1186/s40064-016-3476-7. 2017, doi: 10.1016/j.ejrh.2017.08.009. 1, p. 2010, doi: 10.3844/jmssp.2010.100.104. Yanuar, â€œThe Use of Uniformative and Informative Prior Distribution in Bayesian SEM,â€ Global Journal of Pure and Applied Mathematics, vol. Ibrahim, Chen, and Sinha have made an admirable accomplishment on the subject in a well-organized and easily accessible fashion." Journal of the American Statistical Association"This is one of the best combinations of advanced methodology and practical applications that I have ever encountered." Technometrics, May 2002"This is a book by three authors who are well-known for their contribution to Bayesian survival analysis. This is one of the best combinations of advanced methodology and practical applications that I have encountered. Kundu and H. Yanuar, H. 9, no. 63, 2017, doi: 10.1504/IJDATS.2017.10003994. 2010, doi: 10.1016/j.csda.2010.01.003. 1774, Dec. â€¦ The book is a useful tool for practitioners who analyze survival data using Bayesian methods." (Mathias Schaller, Statistical Papers, Vol. 13, pp. 2019, doi: 10.26554/sti.2019.4.3.82-87. â€¦ It is a good book with many areas of strength. Rahmawati, â€œEstimasi Parameter Distribusi Weibull Dua Parameter Menggunakan Metode Bayes,â€ Medstat, vol. E. 11, no. indones., vol. 5, pp. 255â€“273, Oct. EdjamÃ©, A. Ibrahim, â€œBayesian Analysis of the Survival Function and Failure Rate of Weibull Distribution with Censored Data,â€ Mathematical Problems in Engineering, vol. Renard, J. 54, no. Other things that strike me as new are a good technical discussion of frailty and cure models â€¦ . Recent advances in computing and practical methods for prior elicitation have now made Bayesian survival analysis of complex models feasible. 2, pp. This book provides a comprehensive and modern treatment of the subject. Rinne, The Weibull distribution: a handbook. 1â€“12, May 2018, doi: 10.9734/ajpas/2018/v1i124504. Thamrin, â€œPenaksiran Parameter Distribusi Weibull dengan Metode Bayesian Survival dan Maksimum Likelihood,â€ Jurnal Keteknikan dan Sains, vol. 1â€“18, 2012, doi: 10.1155/2012/329489. 4, no. 2015, doi: 10.35799/dc.4.1.2015.7531. H. 2012, pp. Happily, the book is replete with examples. E. D. 31 (2), 2002)"This book focuses exclusively on medicine and public health but the methods presented can be applied in a number of other areas, including biology, economics and engineering. 5, no. Ibrahim is Associate Professor of Biostatistics at the Harvard School of Public Health and Dana-Farber Cancer Institute; Ming-Hui Chen is Associate Professor of Mathematical Science at Worcester Polytechnic Institute; Debajyoti Sinha is Associate Professor of Biostatistics at the Medical University of South Carolina. â€¦ The book offers a quite up-to-date view of Bayesian Statistics and accounts extensively for Monte Carlo-based sampling methods and for the various methods of prior elicitation, suitable to cope with non-parametric as well as with semi-parametric models." (Fabio Spizzichino, Statistics in Medicine, Vol. The authors provide a collection of theoretical and applied problems in the exercises at the end of each chapter."ISI Short Book Reviews, April 2002"This is definitely a worthwhile read for any statistician specializing in survival analysis. 27â€“35, Jun. â€¦ This book provides a comprehensive and modern treatment of the subject. 3, p. â€¦ In particular, I enjoyed the presentations of cure models and cancer vaccine trials. Lukitasari, A. 100â€“104, Apr. F. V. Hazhiah, S. T. Helmschrot, K. Although several previously published texts address survival analysis from a frequentist perspective, this book examines solely Bayesian approaches to survival analysis. H. Afouda, and K. Iskandar and Y. View PDFVolume 21, March 2021, 100709 rights and content From the reviews:"The analysis of time-event data arises naturally in many fields of study. 26, Feb. R. â€¦ The book develops methodology and does this at a high level, because the reader is presumed to have a mathematical statistics background in both classical and Bayesian methods. B. Drawing from this experience they have put together a comprehensive description of Bayesian methodology in survival analysis. â€¦ Computing support for the book comes from the package called BUGS â€¦ ." (Technometrics, Vol. Sci. C. Ser.: Mater. I. I have learnt a lot and enjoyed reading the book." (Jayanta K. 114, p. They combine in a pleasant way theory, examples, and exercises. 74 (10), 2004)"This book offers an excellent and thorough summary of an exciting methodological development since the seventies of the last century. 3259â€“64, 2015. Boca Raton: CRC Press, 2009. 23, 2004)"This is not an elementary book. Ieren and P. The book presents a balance between theory and applications, and for each class of models discussed, detailed examples and analyses from case studies are presented whenever possible." (Lâ€™Enseignement MathÃ©matique, Vol. Eng., vol. Gondokaryono, â€œCompeting risk models in reliability systems, a weibull distribution model with bayesian analysis approach,â€ IOP Conf. Yozza, and R. John Wiley & Sons, Inc., 2017. W. Sugito, and R. Oâ€™Brien, Short Book Reviews, Vol. 22â€“27, 2018. Guure and N. A. Wala, â€œBayesian trend analysis in annual rainfall total, duration and maximum in the Kara River basin (West Africa),â€ Journal of Hydrology: Regional Studies, vol. The authors provide a collection of theoretical and applied problems in the exercises at the end of each chapter." (C. Biostatisticians will like reading this book from the Bayesian points of view." (Ramalingam Shanmugam, Journal of Statistical Computation and Simulation, Vol. There is a good discussion of historical priors â€¦ . 48 (1-2), 2002)"The book is about Bayesian survival analysis which is illustrated with examples that mostly use the BUGS software package. Setiawan, and L. â€¦ It could be used as a textbook in a graduate level course. 1, no. 2016, doi: 10.1088/1757-899X/114/1/012064. T. Sasangko, â€œBayesian Survival Analysis Untuk Mengestimasi Parameter Model Weibull-Regression Pada Kasus Ketahanan Hidup Pasien Penderita Jantung Koroner,â€ dC, vol. 2012, doi: 10.14710/medstat.5.1.27-35. 6, pp. Ghosh, Sankhya: The Indian Journal of Statistics, Vol. G. 012064, Feb. M. technol. S. Aslam, â€œLog-logistic distribution for survival data analysis using MCMC,â€ SpringerPlus, vol. 22 (1), 2002)"Ibrahim, Chen and Sinha command over a rich experience in both Bayesian and survival analysis. 65 (3), 2003)"This book illustrates several Bayesian techniques to analyze survival data in biology, medicine, public health, epidemiology, clinical trials, and economics. It is pitched so that part of it is readily usable by the medical statistician, but it will also provide stimulation for statisticians involved in methodological development or the writing of new software for survival analysis." (Margaret May, International Journal of Epidemiology, Vol. Rescha, â€œComparison of Two Priors in Bayesian Estimation for Parameter of Weibull Distribution,â€ sci. In addition, the authors demonstrate the use of the statistical package BUGS for several of the models and methodologies discussed in the book. Badjana, B. 82, Jul. Arif, and M. Several topics are addressed, including parametric models, semiparametric models based on prior processes, proportional and non-proportional hazards models, frailty models, cure rate models, model selection and comparison â€¦ . Dey, â€œBayesian Estimation and Prediction on Inverse Rayleigh Distribution,â€ Malaysian Journal of Mathematical Sciences, vol. Curran, Introduction to Bayesian Statistics, Third Edition. I. Ahmed, â€œComparison of the Bayesian and Maximum Likelihood Estimation for Weibull Distribution,â€ Journal of Mathematics and Statistics, vol. â€¦ There are several new methods, ideas, results, some of which are due to the authors.

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