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# Development and validation of a risk prediction model for incident liver cancer

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**Objective:** We aimed to develop and validate a risk prediction model for liver cancer based on routinely available risk factors using the data from UK Biobank prospective cohort study.

**Methods:** This analysis included 359,489 participants (2,894,807 person-years) without a previous diagnosis of cancer. We used the Fine-Gray regression model to predict the incident risk of liver cancer, accounting for the competing risk of all-cause death. Model discrimination and calibration were validated internally. Decision curve analysis was conducted to quantify the clinical utility of the model. Nomogram was built based on regression coefficients.

**Results:** Good discrimination performance of the model was observed in both development and validation datasets, with an area under the curve (95% confidence interval) for 5-year risk of 0.782 (0.748–0.816) and 0.771 (0.702–0.840) respectively. The calibration showed fine agreement between observed and predicted risks. The model yielded higher positive net benefits in the decision curve analysis than considering either all participants as being at high or low risk, which indicated good clinical utility.

**Conclusion:** A new risk prediction model for liver cancer composed of routinely available risk factors was developed. The model had good discrimination, calibration and clinical utility, which may help with the screening and management of liver cancer for general population in the public health field.

## KEYWORDS

risk prediction, risk management, screening, nomogram, liver cancer

## Introduction

Liver cancer is one of the most common cancers worldwide, ranking the fifth in men and the ninth in women (1). According to World Cancer Research Fund (WCRF), there were over 840,000 new cases in 2018 in 185 countries (1). In the United States, based on the data from Centers for Disease Control and Prevention (CDC) and National Cancer Institute (NCI), 34,638 new cases of liver cancer were reported and 27,685 people died of liver cancer in 2018 (2). Despite the significant advances in therapies, mortality and morbidity of liver cancer remain substantially high, posing a significant public health

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**Seemant Chaturvedi, Christopher  
Bladin, Hege Ihle-Hansen, Peter Kelly**

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seventh edition also addresses other important issues such as the legal and ethical considerations of providing information how to respond to requests for information and how to determine what information should be made available

**Decision Making in Perioperative Medicine: Clinical Pearls, 2nd Edition** Steven L. Cohn,2025-04-05 This concise high yield clinical reference guides physicians and their clinical teams through the decision making process of assessing patient risk prior to surgery Decision Making in Perioperative Medicine Clinical Pearls Second Edition focuses on the critical process of assessing and managing patients with medical comorbidities before undergoing surgical procedures The book provides validated risk assessment tools and mitigation strategies for frequently encountered comorbidities Emphasizing risk factors and filled with clinical pearls for postoperative complications this thorough expertly written updated resource covers perioperative medication management cardiac pulmonary and frailty risk indices with modification strategies diabetes management using target specific anticoagulants and complex perioperative cases Features NEW chapters on cardiac biomarkers postoperative nausea and vomiting and postoperative urinary retention Reflects the most current guidelines and recommendations from the European Society of Cardiology and the American College of Cardiology American Heart Association Highlights the most impactful references for each topical area Tables throughout convey massive amounts of information for quick access Provides need to know evidence based information that can immediately be applied in clinical practice Key takeaways on preoperative evaluation testing anesthesia and medication management

*Emerging Areas in Extracranial Carotid Stenosis Evaluation and Management* Seemant Chaturvedi,Christopher Bladin,Hege Ihle-Hansen,Peter Kelly,2022-07-12

*Using Online Data to Understand Personal and Public Health Outcomes and Behaviors* ,2023-04-05

*Clinical Analytics and Data Management for the DNP* Martha L. Sylvia,Mary F. Terhaar,2023-01-18 Praise for the first edition DNP students may struggle with data management since their projects are not research but quality improvement and this book covers the subject well I recommend it for DNP students for use during their capstone projects Score 98 5 Stars Doody s Medical Reviews This unique text and reference the only book to address the full spectrum of clinical data management for the DNP student instills a fundamental understanding of how clinical data is gathered used and analyzed and how to incorporate this data into a quality DNP project The new third edition is updated to reflect changes in national health policy such as quality measurements bundled payments for specialty care and Advances to the Affordable Care Act ACA and evolving programs through the Centers for Medicare and Medicaid Services CMS The third edition reflects the revision of 2021 AACN Essentials and provides data sets and other examples in Excel and SPSS format along with several new chapters This resource takes the DNP student step by step through the complete process of data management from planning through presentation clinical applications of data management that are discipline specific and customization of statistical techniques to address clinical data management goals Chapters are brimming with descriptions resources and exemplars that are helpful to both faculty and students Topics spotlight requisite competencies for DNP clinicians and

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**Annals of Internal Medicine** ,2008 **Journal of the National Cancer Institute** ,2007 Summaries of papers contained in the journal accompany each issue 19

**Breast MRI Interpretation** Gillian M. Newstead,2021-01-06 State of the art resource details effective breast MRI techniques for improved screening and diagnosis Magnetic resonance imaging MRI of the breast has evolved into an important breast cancer screening tool and major advance in women s health Breast MRI is currently the most sensitive detection technique for both non invasive and invasive cancers and follow up in women with a new breast cancer diagnosis It is increasingly becoming the go to imaging method for screening women at high and intermediate risk of breast cancer and those with dense breast tissue on mammography Yet despite its reliability and growing use many radiologists lack the expertise to accurately perform breast MR image interpretation Breast MRI Interpretation Text and Case Analysis for Screening and Diagnosis by Gillian M Newstead reflects insights and expertise from one of the leading authorities on breast imaging The book is a highly practical reference on evaluation and interpretation of breast MR imaging with discussion of the modality as a screening and diagnostic tool Topics include image acquisition and interpretation clinical implementation managing findings and overcoming problems Key Highlights About 3 000 illustrations from the University of Chicago including single selected images side by side images at different time points and acquisition parameters and 3 D images enhance understanding of breast imaging Discussion of advanced acquisition techniques and future potential applications including non contrast imaging quantitative dynamic imaging and artificial intelligence using advanced computer analytic methods This remarkable resource streamlines the breast MRI process enabling radiologists to incorporate this imaging modality into practice conduct screening and diagnostic exams more efficaciously and interpret findings accurately

*Clinical Prediction Models* Ewout W. Steyerberg,2019-07-22 The second edition of this volume provides insight and practical illustrations on how modern statistical concepts and

regression methods can be applied in medical prediction problems including diagnostic and prognostic outcomes Many advances have been made in statistical approaches towards outcome prediction but a sensible strategy is needed for model development validation and updating such that prediction models can better support medical practice There is an increasing need for personalized evidence based medicine that uses an individualized approach to medical decision making In this Big Data era there is expanded access to large volumes of routinely collected data and an increased number of applications for prediction models such as targeted early detection of disease and individualized approaches to diagnostic testing and treatment Clinical Prediction Models presents a practical checklist that needs to be considered for development of a valid prediction model Steps include preliminary considerations such as dealing with missing values coding of predictors selection of main effects and interactions for a multivariable model estimation of model parameters with shrinkage methods and incorporation of external data evaluation of performance and usefulness internal validation and presentation formatting The text also addresses common issues that make prediction models suboptimal such as small sample sizes exaggerated claims and poor generalizability The text is primarily intended for clinical epidemiologists and biostatisticians Including many case studies and publicly available R code and data sets the book is also appropriate as a textbook for a graduate course on predictive modeling in diagnosis and prognosis While practical in nature the book also provides a philosophical perspective on data analysis in medicine that goes beyond predictive modeling Updates to this new and expanded edition include A discussion of Big Data and its implications for the design of prediction models Machine learning issues More simulations with missing y values Extended discussion on between cohort heterogeneity Description of ShinyApp Updated LASSO illustration New case studies *Risk Adjustment for Measuring Health Care Outcomes* Lisa I. Iezzoni, 1994 **Anaesthesia and Intensive Care**, 2008 *Annals of the Academy of Medicine, Singapore* Academy of Medicine (Singapore), 1998

**Journal of the American Medical Association**, 2010-03 **Fishman's Pulmonary Diseases and Disorders, 2-Volume Set, Sixth Edition** Michael A. Grippi, Danielle E. Antin-Ozerkis, Charles S. Dela Cruz, Robert Kotloff, Camille N. Kotton, Allan I. Pack, 2022-10-22 The definitive guide to the clinical and scientific aspects of pulmonary medicine fully updated with the latest advances in the field A Doody's Core Title for 2024 2023 Fishman's Pulmonary Diseases and Disorders delivers unparalleled coverage of pulmonary medicine With nearly 2500 illustrations 60 videos and 22 000 references this peerless two volume resource provides a comprehensive overview of the scientific basis of lung function in health and disease You'll find detailed coverage of the broad array of disorders affecting the respiratory system including obstructive and restrictive diseases pulmonary vascular disorders sleep disordered breathing lung neoplasms respiratory infections and respiratory failure In addition you'll learn about all the latest advances including molecular development of the lung stem cells and respiratory disease the genetics of pulmonary disease the growth of personalized medicine technical advances in lung transplantation and much more Notable new content in the 6th edition includes discussion of the respiratory effects of

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far from brian s sister kenzie and his ex girlfriend with a panic attack problem laura brian and chad along with some of the  
theater kids brian had never given the time of day before decide to find the girls and

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