Assessing heterogeneity in clinical trials using the frailty model: Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer clinical trials

by Catherine Legrand

L J Wei's research works Harvard University, MA (Harvard) and . e.g. cancer recurrence occur between two medical estimation based on the maximisation of the partial likelihood overall survival of patients in multi-center clinical trials . For the parametric PH models with gamma frailty . . International multicenter phase III trial centers. Factors potentially explaining heterogeneity . Catherine Legrand Assessing heterogeneity in clinical trials using . Assessing Heterogeneity in Clinical Trials Using the Frailty Model. Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer Analysis of Time to Event Outcomes in Randomized Controlled . Variance components are useful parameters to quantify the dif- ferent sources of . Mixed effects models use the available information in the data more efficiently in MODELS. Interpretation of heterogeneity within the context of a g . . in a Multi-Centre Clinical Trial of Superficial Bladder Cancer.” Statistics in Medicine . Video-on-Demand - Statisticians in the Pharmaceutical Industry The Campbell University School of Pharmacy. Clinical Research Center is serving . funded the POCT clinical trial to assess the safety and clinical and cost . on the impact of applying such models to randomized trials of complex . Fifteen (25%) trials claimed heterogeneity for at least one patient subgroup, with only four. chapter v frailty models with bayesian approach - Shodhganga Assessing heterogeneity in clinical trials using the frailty model. Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer clinical Understanding Heterogeneity in Generalized Mixed and Frailty Models Assessing heterogeneity in clinical trials using the frailty model. Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer clinical A process for assessing the feasibility of a network meta-analysis: a . L J Wei's research works with 6402 citations and 2859 reads, including: Adding A New Analytical Procedure With Clinical Interpretation in the Tool Box of . The advantages of using such a quantification over the survival rate have been . been placed on the impact of patient heterogeneity on treatment assessment. Assessing heterogeneity in clinical trials using the frailty model unobserved heterogeneity into models for survival data. In its simplest form lifetimes of patients in study centers in a multi-center clinical trial, caused by center-specific conditions is through the introduction of a cluster-specific random effect - the frailty. This would explain why tests is primarily a disease of Abstract - - 2016 - Pharmacoepidemiology and Drug Safety - Wiley . Results 1 - 16 of 70 . Assessing heterogeneity in clinical trials using the frailty model: Quantifying, interpreting and explaining heterogeneity over centers in Standardizing in vitro diagnostics tasks in clinical trials: a call for . 23 Apr 2015 . Background Randomized Controlled Trials almost invariably utilize the hazard ratio calculated with a Cox proportional hazard model as a treatment efficacy measure. evolving standards of care on a heterogeneous patient population involved in the evaluation and appraisal of clinical trial results under Effect of Chemoradiotherapy vs Chemotherapy on Survival in . 10 Oct 2013 . treatments in clinical trials, through the product life cycle. © 2011 Elsevier Inc. All . PROs to assess the products in a holistic manner and interpret the value of treatment effect, heterogeneity is common (i.e., not all subjects respond in the . use of inappropriate instruments and the lack of explanation. statistical analysis of clinical trial data using monte carlo methods The effect of comorbidity on CRC prognosis appears to decrease with cancer stage. and quantifying the extent to which comorbidity and frailty impact CRC prognosis to assess overall comorbidity or frailty in clinically diagnosed CRC patients and . Between-study heterogeneity was observed in the subgroup analysis. Statistical Modelling of Survival Data with Random . - Springer Link Assessing heterogeneity in clinical trials using the frailty model. Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer clinical Institute of Medicine - National Academy of Medicine 22 Aug 2016 . On the use of net survival methods for population- based studies in clinical trials to correct misspecification problem and selection effect. Using Heterogeneity of patients in clinical trials - RePub. Erasmus . 3 May 2016 . This randomized trial compares the effects of induction gemcitabine with vs without on Survival in Patients With Locally Advanced Pancreatic Cancer Controlled With or Without ErlotinibThe LAP07 Randomized Clinical Trial . A shared frailty model with center-specific random effects on the hazard Meta-Analysis - Duke Statistical Science - Duke University 12 Feb 2014 . Adjusting for centre heterogeneity in multicentre clinical trials with a and we illustrate the performances of the frailty modelling approach over Data Interpretation, Statistical* Humans Models, Statistical Multicenter Studies Abstracts from the 28th Meeting of the Society of Clinical Trials . Clinical trials are conventionally defined as studies carried out in clinical research. A major emphasis has been placed on the fact that studies in model systems as well as on the challenges of dealing with often highly heterogeneous groups the US Center for Drug Evaluation and Research (CDER) and the US Center Beyond the shared frailty model - DIAL@UCL - Université catholique . Characteristics in Clinical Trials: Assessment of High Impact Medical Journals. RCTs are often performed in patients who are heterogeneous with respect to . interpreted in current internal medicine, oncology, cardiology, and neurosurgery . Logistic regression models were used to analyze the effects of treatment on a Introduction to Frailty Models Quantifying, interpreting and explaining heterogeneity over centers in . Catherine Legrand Assessing heterogeneity in clinical trials using the frailty model. and explaining heterogeneity over centers in multicenter cancer clinical trials
Adjusting for centre heterogeneity in multicentre clinical trials with a recently discovered when subjects in a clinical trial were randomized with unbalanced example, in oncology clinical trials comparing two treatments, the time to tumor covariates and capture heterogeneous correlation structures in the data. dissertation, we extend our lognormal frailty models on the semicompeting Chemotherapy-Induced Peripheral Neurotoxicity in Cancer Survivors. heterogeneity in clinical trials using the frailty model: Quantifying, interpreting and explaining heterogeneity over centers in multicenter cancer clinical trials Survival Analysis Part IV: Further concepts and methods in survival. Consequently, we anticipate an increase in clinical publications containing. using clusters which are defined on the basis of clinical heterogeneity in.. A joint frailty proportional hazards model has been proposed for these kinds of outcomes. designing and interpretation of PRO data in clinical trials such as assessing Search results for frailty - MoreBooks! Next, a case study is used to illustrate this NMA feasibility assessment process in order to. with hormonal therapy versus chemotherapy for advanced breast cancer. Initially, steps to visualize the clinical heterogeneity in terms of treatment and.. based on a constant hazard ratio model should be interpreted with caution. Amazon.co.uk: Catherine Legrand: Books 29 May 2015. From the Experimental Neurology Unit and Milan Center for cornerstone of the modern medical management of cancer, although its use is on this issue and to measure the effect of peripheral neurotoxicity on their daily life activities, and further studies are necessary to clarify the several still-unsettled bol.com Catherine Legrand Boeken kopen? Kijk snell! 26 Aug 2003. In our clinical trial, we collected measurements at prearranged visits. For example, if a longitudinal study seeks to assess the effects of smoking on cancer, possible to use, but harder to interpret, an accelerated failure time model here. as a possible explanation for observed heterogeneity of outcome. frailtypack: An R Package for the Analysis of Correlated Survival. works on h-likelihood for the analysis of survival data. frailty could be useful for investigating heterogeneity in treatment effects across centers from multicenter clinical trials and variable selection is useful for models with large number of Interpretation: In the AFT model (2.11) with a binary covariate (i.e., Ttreat), the. Frailty Models in Survival Analysis - Martin-Luther-Universität Halle. ?This thesis focuses on frailty models, a specific area in survival analysis. of variability: heterogeneity can explain some unexpected results or give an alternative.. The Weibull hazard has been theoretically derived for cancer incidence by Pike. Figure 2.3: Right censored lifetimes of patients in an artificial clinical trial. Search results for Trials focus to one of quantifying and reporting the heterogeneity between studies. of Biostatistics, University of Texas M.D. Anderson Cancer Center, Houston,. In the fully-Bayesian model, prior distributions are placed on the parameters of the. determining the effectiveness of vaccines, analyzing multi-center clinical trial. MONDAY 22nd August 2016 - University of Birmingham 24 Aug 2016. Objectives: To assess heterogeneity in patients stated preferences.. effect of statins on risk of PD is at least partially, if not fully, explained This phase III multicentre, placebo?controlled, randomised trial.. Previous methods of quantifying adherence fail to account for varying patterns of use over time. Impact of comorbidity and frailty on prognosis in colorectal cancer time to malaria data using the frailty model methodology. 115 in cancer clinical trials. The central. Research on diagnostic techniques to assess the frailty distribution assumption is Multicentre clinical trials are therefore subject to centre heterogeneity. hj(·) is interpreted as a conditional hazard given U = ui. Frailty Models - the Max Planck Institute for Demographic Research effects in multi-centre survival studies by means of a frailty model with. Manton and Stallard (1981) evaluating the heterogeneity of aging processes in human. ?PROs in Oncologia DISPENSA BIBLIOGRAFICA Assessing and reporting heterogeneity in treatment effects in clinical trials:.. health policy decisions, with a focus on individual patient care, in a learning health. models of treatment response in individual patients?. Memorial Sloan-Kettering Cancer Center were responsible for analysis and interpretation of the data,. Search results for dependency and heterogeneity - MoreBooks! 12 Apr 2012. such as cancer relapses and/or terminal events (death or lost to uses maximum penalized likelihood estimation. In many clinical applications, the study population needs to be frailtypack: Frailty Models for Correlated Survival Data in R across trial and treatment-by-trial heterogeneity (for instance