

Quantitative and Clinical Analysis of SPECT Image Registration for Epilepsy Studies

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This study reports quantitative measurements of the accuracy of two popular voxel-based registration algorithms—Woodard automated image registration algorithm and mutual information correlation—and compares these with conventional surface matching (SM) registration. **Methods:** The registration algorithms were compared (15 different matches each) for (a) three-dimensional brain phantom images, (b) an ideal SPECT image from a patient with partial epilepsy matched to itself after modification to simulate changes in the cerebral blood flow pattern and (c) icteroheterotaxial SPECT images from 15 patients with partial epilepsy. Blinded visual ranking and localization of the subtraction images derived from the patient images were also performed. **Results:** Both voxel-based registration methods were more accurate than SM registration ($P < 0.0005$). Automated image registration algorithm was more accurate than mutual information correlation for the computer-simulated icteroheterotaxial images and the patient icteroheterotaxial studies ($P < 0.05$). The subtraction SPECTs from SM were poorer in visual ranking more often than the voxel-based methods ($P < 0.05$). **Conclusions:** Voxel intensity-based registration algorithms provide significant improvement in icteroheterotaxial SPECT registration accuracy and result in a clinically detectable improvement in the subtraction SPECT images.

Key Words: image registration; icteroheterotaxial SPECT; partial epilepsy; cerebral blood flow

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Several computer-aided methods for producing subtraction ictal SPECT images coregistered to MRI (SISCOM) have recently been described as tools for improving the localization of the epileptogenic zone in focal epilepsy (1–4). These methods have been shown to significantly improve sensitivity and specificity compared with conventional visual analysis of icteroheterotaxial SPECT images (3,5,6). The SISCOM methods involve acquiring both ictal and interictal SPECT images of regional cerebral blood flow (rCBF) using a radiolabeled tracer, usually ^{99m}Tc hexamethylpropylene amine oxime or ^{99m}Tc -ethyl cystinate dithylosate (ECD). These functional rCBF maps are then normal-

ized to mean cerebral pixel intensity to account for differences in total activity and isotope decay, registered using an accurate and robust matching algorithm to account for differences in patient position and slice level and subtracted to produce a functional map of the changes in rCBF during ictus compared with the resting state. This subtraction image is then thresholded to isolate significant blood flow changes and is registered to the patient's MRI image.

One of the major influences on the sensitivity and specificity of the SPECT subtraction image is the accuracy of the icteroheterotaxial SPECT image alignment (7). Poor registration results in subtraction of nonanatomically corresponding voxels. This decreases the sensitivity of the final image by increasing the signal-to-noise ratio and may decrease specificity by producing false-positive activation sites. Brain surface matching techniques (7,8) have traditionally been used to produce subtraction SPECT images (1,2). Surface matching (SM) registration consistently matches SPECT images with better than 1 voxel dimension of accuracy (9); however, the literature suggests that even small misalignments may decrease the sensitivity of focal uptake detection (9). Hence, methods that provide more accurate interictal-to-ictal SPECT registration have the potential to further improve the sensitivity and specificity of epileptogenic localization.

The SM algorithm we originally used in SISCOM was developed by Jiang et al. (8) in 1992 and is available as part of the AnalyzeAVW software package (Mayo Foundation, Rochester, MN) (10). This algorithm has been extensively used by many centers and has been demonstrated to be robust and accurate for several different imaging modalities (11–13). Recently, several voxel-based registration algorithms have been proposed for inter- and intramodality image alignment, and these methods have been shown to be even more accurate than SM methods for a variety of applications (14). However, the performance of different algorithms depends greatly on the image modalities used and the registration task to be performed, and few have been compared quantitatively for matching functional rCBF images. In particular, the extensive changes in image contrast that accompany ictal activation could confound voxel-based registration algorithms. Most intramodality voxel-based algorithms depend on a certain consistency of voxel gray

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of the central nervous system and diazepam metabolism in healthy subjects and patients with heart failure renal failure and hepatic cirrhosis The selection is a dependable reference for readers interested in neuropsychopharmacology Statistical Methods for Modeling Human Dynamics Sy-Miin Chow, Emilio Ferrer, Fushing Hsieh, 2011-02-25 This interdisciplinary volume features contributions from researchers in the fields of psychology neuroscience statistics computer science and physics State of the art techniques and applications used to analyze data obtained from studies in cognition emotion and electrophysiology are reviewed along with techniques for modeling in real time and for examining lifespan cognitive changes for conceptualizing change using item response nonparametric and hierarchical models and control theory inspired techniques for deriving diagnoses in medical and psychotherapeutic settings The syntax for running the analyses presented in the book is provided on the Psychology Press site Most of the programs are written in R while others are for Matlab SAS Win BUGS and DyFA Readers will appreciate a review of the latest methodological techniques developed in the last few years Highlights include an examination of Statistical and mathematical modeling techniques for the analysis of brain imaging such as EEGs fMRIs and other neuroscience data Dynamic modeling techniques for intensive repeated measurement data Panel modeling techniques for fewer time points data State space modeling techniques for psychological data Techniques used to analyze reaction time data Each chapter features an introductory overview of the techniques needed to understand the chapter a summary and numerous examples Each self contained chapter can be read on its own and in any order Divided into three major sections the book examines techniques for examining within person derivations in change patterns intra individual change and inter individual differences in change and interpersonal dynamics Intended for advanced students and researchers this book will appeal to those interested in applying state of the art dynamic modeling techniques to the study of neurological developmental cognitive and social personality psychology as well as neuroscience computer science and engineering *Neurometric Assessment of Brain Dysfunction in Neurological Patients* Thalía Harmony, 2021-07-18 Originally published in 1984 the aim of this book was to interest clinical neuroscientists in the application of neurometrics to the evaluation of brain dysfunction in neurological patients This methodology was hoped to produce substantial improvement in the neurological medical care of the general population at the time In the previous 15 years as a result of the development of minicomputers and their application to the quantitative analysis of electrophysiological phenomena there had been a great expansion of knowledge about the electrical activity of the brain This activity yielded a great variety of information about brain functions Neurometrics is a methodology based on quantitative measurements of the brain electrical activity for evaluating anatomical integrity developmental maturation and the mediation of sensory perceptual and cognitive processes This book focuses on practical clinical applications and the theoretical and experimental formulations on which these are based

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