

# BENIGN AND MALIGNANT TUMORS OF THE ADRENAL GLAND DEREK T. WOODRUM AND PAUL G. GAUGER pdf

## 1: TOC - [PDF Document]

*A "mini-textbook" that delivers practical, need-to-know information in surgical oncology in an economical and user-friendly format. Coverage progresses from key basic science knowledge, principles of oncology care and research, to general diagnostic and operative procedures for a variety of cancers.*

Uni-variate analysis in which discrimination was attempted based on MD in the single region resulted in the accuracy of Multi-variate analysis in which a linear discriminant function based on MDs from multiple cortical regions increased the accuracy up to A multiple regression analysis was used to map the regions where gray matter volumes were correlated with CPM scores. Significant correlations were seen in 14 regions with the strongest correlation in the left middle frontal gyrus. Results suggested that damages of multiple regions are responsible for deterioration of abstract reasoning ability in AD and MCI. Using MCI subjects from the ADNI database, PCA analysis of deformation fields required to register to a minimum deformation template is used to build a shape model of the aging brain. LDA of the eigenvalues is used to build a classifier to identify converters and non-converters. The purpose of this study was to use increased spectral resolution and signal, available at higher field, to measure changes in the PCC metabolic profile due to healthy aging and cognitive impairment. Atrophy corrected levels of N-acetyl aspartate, glutamate and aspartate were found to significantly decrease with healthy aging. Levels of phosphocreatine were greatly reduced in patients with cognitive impairment, supporting a crucial role for Creatine Kinase dysfunction in dementia. Results show that co-analysis with FA does not detect greater AD-related disease than structural analysis alone. Regional differences were identified in the corpus callosum and parietal white matter in those individuals with confirmed parental history of DAT. These findings support the hypothesis that white matter abnormalities precede the clinically apparent onset of dementia, representing either early pathophysiological changes or fundamental differences in white matter integrity which may place individuals at risk for subsequent development of Alzheimer Disease. To explore this relationship, we have scanned the same population of AD patients and age-matched controls both with fMRI in resting state condition and PET, employing two different amyloid-b tracers: The functional networks affected in AD, and the distribution of neuropathology largely overlaps. We will demonstrate the specific relationship between either type of amyloid pathology and particular functional networks. Hypoperfusion was detected in parietal cortex and right angular gyrus when patients were compared to controls. A significant perfusion decrease in parietal cortex and left caudate was also detected in elderly compared to young controls. This suggests that PASL is capable to investigate the transition from normal ageing to dementia. Chen, 2,3, Simon J. In the present study, we provide evidence from AD patients for the accuracy of a novel, fully-automated, MRI-based technique for LV segmentation. Furthermore, we provide preliminary evidence from a subset of 33 of these patients for the validity and precision of two novel, fully-automated, MRI-based techniques for the estimation of longitudinal change in LV volume. Changes in perfusion have been identified in APOE carriers verse non-carriers. Douglas Ward<sup>1</sup>, Shi-Jiang Li<sup>1</sup> <sup>1</sup>Biophysics, Medical College of Wisconsin, Milwaukee, WI, United States A quantitative Granger causality analysis, which can measure the causal strength among different time series, was employed to identify and quantify the directional hippocampus and default model network in cognitively normal subjects, and detect the changes in the directional network in AD patients. Interestingly in AD subjects, the functional afferents of parahippocampal gyrus is significantly decreased but the efferents of that are increased. And the abnormal network are correlated with abnormal behaviors. We found no differences in DTI parameters between the two patients groups. Our results reveal that the longitudinal and radial diffusivities, fractional anisotropy and apparent diffusion coefficient were significantly higher on the right lobe than on the left lobe in AD group. We investigated which DTI indices: The increased DR may provide measurement of demyelination of AD in pathology. Using DTI, we evaluated white matter microstructure in subjects with and without established DAT and identified differences in both the corpus callosum and precuneus. We surveyed

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all white matter tracts by labeling of the ICBM-DTI digital atlas and correlated FA values of individual white matter tracts with cognitive testing score and cortical atrophy map respectively. The correlation analyses show that tracts in the limbic system, namely fornix and cingulum, are the most sensitive tract to cognitive testing scores and cortical atrophy. Here, we report that  $^1\text{H}_2\text{O}$  T1 values are increased in the thalamus of subjects with early AD compared to age-matched, cognitively normal controls. The method reveals significant and syndrome-specific cortical thickness-diffusion tensor imaging networks in two neurodegenerative diseases, AD and FTD. Subject diagnosis was confirmed by autopsy or CSF-biomarker ratios. Thus, SCCAN identifies disease-specific networks of effects in white matter and cortical thickness that appear in anatomy suspected to be involved in these diseases and that relate specifically to impaired cognitive processes. AD patients revealed reduced FC in the posterior cingulate, within the default-mode-network. These findings respectively account for brain disconnection between medial temporal lobes and other association cortexes in the development of AD symptoms, and for occipital abnormalities potentially responsible for visual hallucinations in DLB. Unfortunately, such repeatable measurements are difficult to obtain in vivo. With only 12 subjects in each of the MCI and NC categories, p-values separating the two classes decrease from 0. The impact of more repeatable mI concentration measurements in diagnosing or monitoring MCI evolution or treatment is discussed. Alzheimer disease AD is the most common form of dementia. Mild cognitive impairment MCI is a transitional state between normal aging and dementia, and is often considered a risk factor for AD. In this study, we employed resting-state MRI connectivity methods and the large-scale network analyses to discriminate between AD, MCI and healthy control subjects. Results demonstrate that different RF pulses significantly modulate the rotating frame relaxations in the substantia nigra SN, providing the opportunity to extract fundamental parameters of the system based on theoretical modeling of the relaxation channels. The greatest sensitivity to identify sub-regions of the SN was achieved by the so-called RAFF pulse, which combines T1rho and T2rho relaxation mechanisms. Measurements from ferritin samples were additionally performed. This method is validated, despite the reduced SNR associated with fast imaging techniques. Melzer<sup>1,2</sup>, Richard Watts, <sup>1,3</sup>, Michael R. Dalrymple-Alford, <sup>1,7</sup>, Tim J. Principal component analysis produced a set of covariance patterns which were used to form a perfusion network that successfully distinguished PD from control. The PD-related network was characterized by decreased perfusion in PD versus controls in bilateral posterior parietal-occipital regions, posterior medial cortices, precentral and bilateral middle frontal gyri, and left caudate. Preserved perfusion occurred in bilateral globus pallidus. This ASL-derived PD network provides a marker to objectively gauge disease severity and serves as a potential method to longitudinally track disease progression. Ten early PD patients were compared with eleven gender- and age-matched controls. In this study, abnormal ALFF demonstrate that spontaneous neural activity in the resting state is changed in patients with early PD, furthermore, those abnormal neuronal activity should be considered in explaining findings in behavior deficits in early PD. This method is a potential tool to monitor the progression of PD. There is increasing evidence that iron-mediated oxidative stress via the Fenton reaction is responsible for this loss of neurons. It has been previously demonstrated that transverse relaxation times change in Parkinson patients, supporting pathological findings of increased iron content in the substantia nigra. However, relaxation time is a quite indirect measure of changes in iron concentration, and hard to quantify. Recent studies have used phase images to study neurodegenerative diseases, but this method has the disadvantage that field perturbation maps derived from phase data are non-local. Our study demonstrates that local susceptibility maps, directly indexing iron concentration, can be calculated from phase image data in Parkinson patients. Six ALS patients were enrolled in this open-label pilot study. Patients escalated weekly through 3 different dose levels. Creatine serum levels increased with daily use of 5, 10, 15 gm BID. MR Spectroscopy results are suggestive that creatine crosses the blood brain barrier when given at a high dose of 15 gm BID. Furthermore, glutamine and glutamate levels decreased post treatment. Vesek<sup>5</sup>, Jianli Wang<sup>5</sup>, Michele L. Eslinger<sup>2,5</sup>, Zachary Simmons<sup>2</sup>, Qing X. T1-weighted and multi spin-echo images were acquired from 12 control and 12 ALS at baseline, 7 at 6 months, and 6 at 12 months. After post-processing clusters of

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significant T2 increase cross-sectionally were found in frontal and temporal areas. Longitudinally, increased T2 was associated with disease duration mainly in frontal areas. Increased T2 in ALS is likely due to atrophy in cortical areas and acute inflammation in subcortical regions. In stroke survivors who do not have immediate, severe cognitive impairment, the risk of developing dementia is significantly increased. Stroke may also exacerbate or trigger the development of neurodegenerative pathology. Small vessel vascular effects may be an important factor in neurodegeneration. Regional and global deficits in CBF were found in patients with post-stroke dementia resembling patterns of change in AD patients, while cognitively intact post-stroke patients had normal CBF. Whether Apo E4 allele and age may influence subcortical brain atrophy in HIV patients are unknown and were evaluated in this study. ApoE4 genotype was associated with greater atrophic effects in the younger but not older HIV patients, which suggests that ongoing neuro-inflammatory processes may be more robust and have stronger deleterious effects in the younger patients. Using surface-based cortical curvature measures, we identified abnormally increased cortical folding in the left temporal pole of patients with both left and right TLE as compared to healthy controls. Increased left temporopolar folding was associated with abnormal positioning of the ipsilateral hippocampus in left TLE patients, and associated with unfavourable surgical outcome in patients with a right-sided seizure focus. These results suggest abnormalities in global limbic network connectivity may play an important role in temporal lobe epileptogenesis. Pathophysiological mechanisms involved in this disease are complex but remain for the most part unknown. This lack of knowledge might explain the absence of reliable biological marker. CSF could be a source of biomarkers. The aim of this study was to analyze CSF of patients with ALS by 1H NMR in order to identify biomarkers in the early stage of the disease, and to evaluate the biochemical factors involved in this disease. We quantified 18 metabolites like amino-acids, organic acids and ketonic bodies. Higher concentrations of metabolites such as ketone bodies contribute to the PCA separation between the two populations. VBM analysis performed on T1-weighted images of the brain revealed significant changes in the motor cortex and supporting white matter of ALS patients compared with age-matched healthy control subjects. ROI analysis revealed a significant decrease in signal intensity from these regions, with signal intensity of ALS group showing significant correlation with clinical measures of disease severity. These findings suggest that T1-weighted images may have utility as an imaging biomarker of disease progression in ALS. Particularly for prefrontal brain, metabolite concentrations correlated with the withdrawal syndrome. Schizophrenia Impact on Perfusion Parameters: However, cerebral perfusion is also influenced by several physiologic parameters, not necessarily connected to the pathology. We performed a DSC-MRI analysis to study the role of the demographic information on perfusion parameter estimates between patients with schizophrenia and normal control subjects. We found that differences i. Mohamed<sup>2,3</sup>, Hyun Kim<sup>1</sup>, Jennifer A. Purdy<sup>3</sup>, Qihua Lin<sup>4,5</sup>, David M.

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## 2: Publications Authored by Justin A Bishop | PubFacts

*Its diagnosis is a challenge, both clinically and histologically due to the absence of pathognomonic characteristics that allow early distinction between benign and malignant disease.*

Standard therapy of thyroid cancer Controversies about management still exist Several guidelines for thyroid cancer treatment: Evidence includes consistent results from well-designed, well-conducted studies in representative populations that directly assess effects on health outcomes. The recommendation is based on fair evidence that the service or intervention can improve important health outcomes. The evidence is sufficient to determine effects on health outcomes, but the strength of the evidence is limited by the number, quality, or consistency of the individual studies; generalizability to routine practice; or indirect nature of the evidence on health outcomes. The recommendation is based on expert opinion. The panel concludes that the evidence is insufficient to recommend for or against providing the service or intervention because evidence is lacking that the service or intervention improves important health outcomes, the evidence is of poor quality, or the evidence is conflicting. As a result, the balance of benefits and harms cannot be determined. Therapy of unknown persistent disease 10 RAI Ablation or not? Indication of RAI ablation 1 Tumor size: Trend to avoid pretherapy RAI scans because of 1 Its low impact on the decision to ablate 2 Concerns over induced stunning of normal thyroid remnants 19 Stunning Effect Definition: Occurs with higher activities of I mci. Diagnostic scan - or Tg - Similar ablation rates between 30 to mci Klaus et. This is typically done 2 10 days after the therapeutic dose is administered. Post-therapy WBS Mazzafferi et. Post-therapy WBS Koh et. With Tg - Pacini et. With high or intermediate risk of persistent disease, but should be done with I or low activity I Dose of RAI therapy in pts. RAI Therapy for Pul. MAY BE of value only in pts.

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## 3: Content Posted in | eScholarship@UMMS at the University of Massachusetts Medical School

*Molecular classification and prognostication of adrenocortical tumors by gene expression profiling* Giordano TJ, Kuick R, Thomas DG, Vinco A, Sanders D, Bauersfeld J, Else T, Gauger P, Doherty G, Hammer G, *Laboratory Investigation*, 1/1/

A perspective on the future of endocrine surgeryâ€”challenges and opportunities in a time of rapid transformation John S. Yao, MD, Jeffrey H. Lee, MD, Nancy D. Perrier, MD, Peter W. Pisters, MD, Jeffrey E. Lee, MD, and Douglas B. Evans, MD, Houston, Texas Valproic acid inhibits growth, induces apoptosis, and modulates apoptosis-regulatory and differentiation gene expression in human thyroid cancer cells Wen T. Shen, MD, Ted S. Wreesmann, MD, Ashok R. Shaha, MD, Jatin P. Accounting and Circulation Offices: Periodicals postage paid at Orlando, FL and additional mailing offices. Pingpank, MD, Edward D. Novitsky, MD, Kent W. Kercher, MD, Michael J. Rosen, MD, William S. Todd Heniford, MD, Charlotte, NC hydroxyvitamin D deficiency is a risk factor for symptoms of postoperative hypocalcemia and secondary hyperparathyroidism after minimally invasive parathyroidectomy Zoe A. Zeiger, MD, Baltimore, Md Revisiting lithium-associated hyperparathyroidism in the era of intraoperative parathyroid hormone monitoring Jonathan C. Hundley, MD, Derek T. Woodrum, MD, Brian D. Saunders, MD, Gerard M. Doherty, MD, and Paul G. A year prospective analysis Mark S. Cohen, MD, William G. Dilley, PhD, Samuel A. Moley, MD, Gerard M. Doherty, MD, Gregorio A. Sicard, MD, Michael A. Skinner, MD, Jeffrey A. Norton, MD, Mary K. Lubitz, MD, Lisa A. Gallagher, MD, David J. Zeiger, MD, and Steven K. Stang, MD, John H. Yim, MD, Sue M. Carty, MD, Pittsburgh, Pa The role of intraoperative parathyroid hormone testing in patients with tertiary hyperparathyroidism after renal transplantation Silke V. Wagman, MD, and Joshua D. A cautionary note Ricardo J. Perrier, MD, Douglas B. Evans, MD, and Jeffrey E. Does morphology or function matter most? Wang, MD, Samuel T. Ostrower, MD, and Keith S. Garner, MD, Kristen E. Wagner, MD, and Allan E. Haigh, MD, and David R. Plaudits and pitfalls Samuel K. Snyder, MD, and John C. League cartoon Walter J.

## 4: JoVE | Peer Reviewed Scientific Video Journal - Methods and Protocols

*select article Profile and outcome of pure androgen-secreting adrenal tumors in women: Experience of 21 cases*  
*Research article Full text access Profile and outcome of pure androgen-secreting adrenal tumors in women: Experience of 21 cases.*

## 5: Practical I therapy for thyroid cancer ; KTA guideline - PDF

*Real-Time Intraoperative Detection of Breast Cancer Axillary Lymph Node Metastases Using a Green Fluorescent Protein-Expressing Herpes Virus* Woodrum, Derek T.

## 6: â€“ am MCC01 Saturday, October 11

Derek T Woodrum Brian D Saunders Barry G England Richard E Burney Gerard M Doherty Paul G Gauger Surgery Dec;(6) Department of Surgery, University of Michigan, Taubman Center TCH, East Medical Center Drive, Ann Arbor, MI , USA.

## 7: Dr. Paul Gauger, MD â€“ Ann Arbor, MI | General Surgery

*Dr. Paul Gauger is a surgeon in Ann Arbor, Michigan and is affiliated with University of Michigan Hospitals-Michigan Medicine. He received his medical degree from University of Missouri - Kansas.*

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## 8: Traditional Posters

*select article A six-gene model for differentiating benign from malignant thyroid tumors on the basis of gene expression*  
*Research article Full text access A six-gene model for differentiating benign from malignant thyroid tumors on the basis of gene expression.*

## 9: Publications Authored by Gerard M Doherty | PubFacts

*Derek T Woodrum. Brian D Saunders. Malignant tumours of the adrenal gland are uncommon but are associated with substantial mortality. For most tumours resection is the only opportunity for.*

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*SAS Guide for Introduction to the Practice of Statistics, Third Edition Hepatitis A vaccine A sermon concerning the excellency and usefulness of the Common Prayer External Morphology and Larval Development of the Upper Cambrian Maxillopod Bredocaris Admirabilis, Numbe V. 2. The growth of international collective economy. Investing like a professional. At 50, Your Warranty Expires and Everything Falls Apart Chapter Five: The Brains Motor/129 Success with Words, 3rd Edition (Success With Words) Fria venganza craig johnson Aerodynamic flow field measurements for automotive systems Beethoven symphony 7 movement 2 piano Radioactive waste from nuclear power plants Coffey on the mile. Luminescence and Related Properties of li-VI Semiconductors New Arabian Nights Small businesses; how they survive and succeed. Enzyme-linked immunosorbent assay for the detection and identification of plant pathogenic bacteria Blank Germanys Eastern Front Allies 1941-45 Alexander hamilton book syllab Vlsi design textbook by pucknell Map ing test practice 5th grade Sixth French Suite for Pedal Harp (Parts 1 and 2) Pa system design guide Just the same old story? : the linguistics of text messaging and its cultural repercussions Alex Bergs Survival on the Tashkent front MIS of the Hip and the Knee Chicago Walking Guide V. 10. On the constitution of the church and state edited by J. Colmer Space based solar power seminar report The Scots musical museum 1760-1850 Oxford color Spanish dictionary Spotsylvania-See Fredericksburg The scientific revolution a very short introduction Memoir of the life and episcopate of Edward Feild, D.D. bishop of Newfoundland, 1844-1876 Clash intensifies Uml diagrams for hospital management system Convergence of the twain For prisoners and our communities Peoples champion, Fred Paterson*