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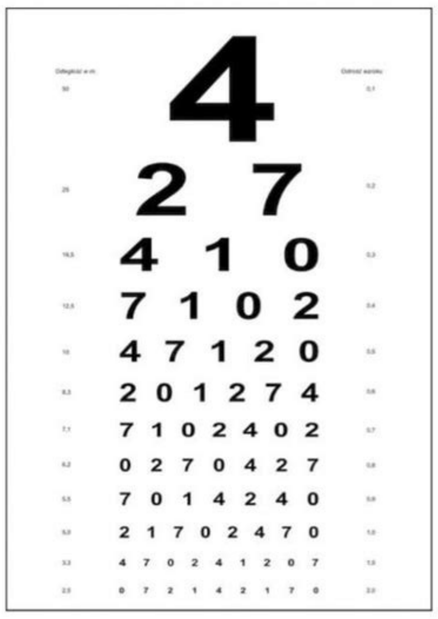
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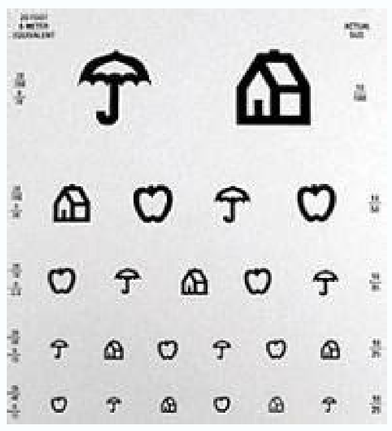


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PLACE 15FT AWAY


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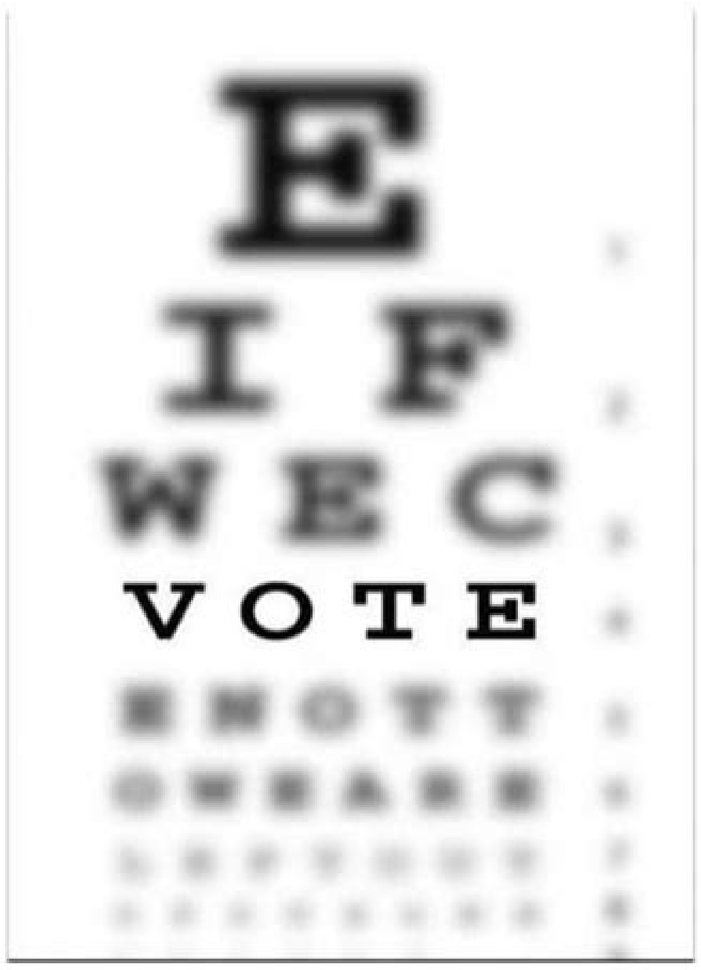
Blurry Eye Chart



Visual pathway of the eye. Visual pathway of the eye in order. Visual pathway of the eye quizlet. Printable parts of the eye worksheet.

Open access viewed by pairs Strabismus is a disorder in which the eyes are aligned. Persistent strabismus can lead to the disabilities of stereion. The effect of Strabismus on the human human is not clear. The present study is to investigate whether the cerebral white structures of patients with an impaired exotropy are harmed using T1 -weighted combined images and diffusion tensor image (DTI). Thirteen patients with Strabismus Comitant and twelve controls were subjected to magnetic resonance (MRI) with weighted and diffusion tensor image acquisition. Weighted images were used in T1 to analyze change in the volume of white matters using optimized voxel morphology (VBM) and the diffuse tensors were used to detect the change of maton fibers © White Ria using DTI Voxel Based Dwill in Patients with Committee Extropopia. The VBM review showed that in the adult Strabismus, the white mature volumes were smaller in the right occipital turnover, right oCCipital lobe/cuneus, right supparginal, right cilistan, right/sub-gyral front lobe, Lower left front turn, parapypampa Gyrus, lower cerebrusion Gyrus lower than Voxel -based DTI show showed lower values of fractional anisotropy (FA) in the right occipital gyrus and right supparginal turnover in patients with strabismus, while the brain region with increased FA value was found in the right lower front gyrus. Combining VBM -based and Voxel -based, the study suggests that the dorsal pathway was abnormal or impaired in patients with Combitant exotropy. Quotation: Yan X, Lin X, Wang Q, Zhang Y, Chen Y, Song S, et al. (2010) changes in the dorsal visual path in patients with comitante extropopia. PLOS One 5 (6): E10931. Editor: Yang, University of Illinois in Chicago, United StatesReceived: November 21, 2009; Accepted: May 10, 2010; Published: June 3, 2010 Copyright: © 2010 Yan et al. This is an open access article distributed under the terms of the Creative Commons Attribution License, which allows unrestricted use, distribution and reproduction in any medium, provided the original author and source are credited. Financing: These studies were supported by scholarships 2007B031505002 and 2008B060600031 of the Foundation for Research of Science and Technology Plan Project, Guangdong, People's Republic of China. The funders had no role in the design of study, collection and analysis of data, decision to publish or prepare the manuscript. Competitive interests: The authors stated that there are no competing interests. The strabismus comitant is a common form of strabismus, which affects 1-4.2% of the population [1], [2], [3]. It is characterized by a constant angle of deviation in different directions of look. In clinical practice, strabismus comitant also presents stereoopsis impairment, especially in patients with early childhood, whose stereopsies is substantially impaired. In addition, stereoopsis is not yet restored to many adults with early and long-standing stratbismus, although they have undergone strabismus surgery. These interesting phenomena may suggest that certain regions of the brain, particularly regions that control stereopsies, may be affected by early abnormal visual experience. Previous studies have already suggested that changes in brain plasticity can be induced by early aimed experience, such as strabismus. In primate experiments the number of binocular neurons in the V1 region and the bilateral horizontal connections between the areas V1 are reduced by strabismus [4], [5], [6], [7], [8], [9], while these neurons acitp³Ã acitp³Ã megami ,ossid m©ÃlA .]7[,]6[,]5[,]4[sodatefa o£Ãs o£Ãn ohlo adac a tceted ot desu eb nac euqinhcet remrof ehT .sredrosid lacigoloruen ni erutcurts niarb eht erusaem ot sdohtem evisavninon htob era hcihw ,hcraeser niarb ni desu ylediw era)ITD(gnigami rosnet noisuffid dna gnigami dethgiew-1T .denimretednu sniamer niarb namuh no sumsibarts tnatimoc fo tceffe Eht ,erofereht .oitar eisson/langis rewol fo esuaceb Metsys rm DLEIF-HGIH Taht sa hgih in the noitopser laitaps hcihw of ,t1 in the wol in sawts studs seled emos dna aipoylbma evah sumsibarts htiw stneitap tsom ,yduts rieht ni ;]51[tnemriapmi sispoerets htiw seinapmocca osla dna niarb namuh ni melborp latnempoleved a si hcihw ,aipoylbma fo tceffe gnidnuofnoc laitnetop eht rof tnuocca ton did yduts rieht ,revewoH .]41[xetroc lausiv fo yhport eht rof noitassnepmoc ni emulov ni desercni dah snoiger rotomoluco eht taht hcus ,segnahc citssalp dah stneitap sumsibarts FO niarb eht taht desoporp geugaelloc . org siht by Sembulov Retaerg Dewohs Saea Lacitrocbus Emros Dna)CFP(xetroc latnorferp ,)fes(dleif eye yratnememppus ,)fef(dleif eye tnorf eht eht eht sangbarts DNA)feo(dleif eye latipicco eht Fo rettam yarttam yarttam eht taht taht dnuof yeht .]41[sreetnulov yhtlaeh 01 htiw derapmoc Aiportoxe NAHC .Narb Namuh If Sumsibarts Fo tcapmi eht No Desucof Evah Seiduds Wef ,Slamina Sumsibarts ni Segnah Erurts niarb Rof Ecnedivenive Gniworg Etpsiced Ehud ,] STAC SUMSIBARTS ni .]11[81 Aera Ot 71 Aera Morf Noitcennoc Eht dna 81 Aera nihtignnoc eht yfidom dna ,]0[71 aera by Sniamod Eht ecdibar in in volume of gray and white matter using VBM, which is based on voxel-by-voxel analysis [16]. The latter method can detect the integrity of white matter fibers connectivity via analyzing the abnormality of fractional anisotropy (FA), which is the main indicator reflecting directionality of water diffusion in voxel-based analysis of DTI [17]. Here we used T1-weighted imaging and DTI to explore the structure changes of brain plasticity in comitant strabismus patients with normal corrected visual acuity. Our study aims to investigate the changes in white matter structure of the strabismus patients using optimized VBM and voxel-based analysis of DTI, which can help to elucidate the effect of early abnormal experience on the plasticity of human brain. The study was approved by the Ethics Committee of ZhangShan Ophthalmic Center, Sun Yat-sen University and followed the tenets of the Declaration of Helsinki. All the participants enrolled in the study signed informed consents and received detailed eye examinations, including visual acuity, ocular pressure, refraction, anterior segment anatomy, ophthalmoscopy, binocular alignment, ocular motility, random-dot butterfly stereogram and synoptophore. A total of 13 patients (6 female and 7 male; average age 22.0Ã±Â2.89 years) with comitant exotropia and 12 normal volunteers (8 female and 4 male; average age 23.17Ã±Â2.52 years) were enrolled in the study. The mean age at strabismus diagnosis was 5.5Ã±Â6.6 (range birth to 15 years) and the mean distance exodeviation was 79.7Ã±Â30.7 prism dioptres (PD) (range 30 to 140). All patients had no stereopsis and the normal subjects had good stereopsis as detected by random-dot butterfly stereogram. The normal volunteers had no history of strabismus. All the subjects had normal corrected visual acuity for both eyes, right-handed, had no intermitent exotropia, other ocular disease or surgery, neurological disorders, or brain abnormality based on ad o£Âsnetxe a e 5MPS od omtirogla O .sevaus sapate e o£Ã§Âaludom ,o£Ã§Âatnemges ,o£Ã§Âazilamron maÃulcni euq ,)mps/ku.ca.lcu.noi.lif.www//:ptth ,odinU onieR ,serdnoL ,ygolorueN ovitingoC fo emocIleW ed otnematrapeD ,5MPS(5 ocitsÂtatse ocirt©Âmarap otnemaepam ed erawtfos ed etocap on adatnemelpmi)mbv/ed.anej-inu.oruen.mbd//:ptth( )1.5MBV(lexov ed esab Ã airtemofrom ed satnemarref ed axiac moc sadassecorp marof siaruturtse snegami sassE .]81[la te dooG rop odivlovnesed odazimito MBV moc sadasilana marof 1T me sadarednop snegami sA .saditbo marof)3-°Â 31(snegami 93 ed latot mu e nim 6 ed acrec ed iof aruderrav ed opmet O .3 ¬â ¢Ã = = = ¬â ¬â oid©Âm opmet ,)2mm/s 0 ¬â = = ¬â ¢ÃB(o£Âsufid ed o£Ã§Ârednop mes o£Ã§Âisiuqa amu moc etnematnuj ,)2mm/s 0001 ¬â = Å ¬â ¢ÃB(seraenil o£Ân seµÃ§Âerid 21 ed ognol oa sodacilpa marof o£Âsufid ed o£Ã§Âazilibisnes ed setneidarg sO .xp/zH 2051¬â ¬â = ¬â ¬â adnab ed arugraL ;mm 3 = - aitaf ad arussepse ;54 = - siaixa saitaf ;3mm 3 - 2 - 2 ¬â ¬â ¬â ¢Ã = ¬â ¬â ¢Ãlexov ad ohnamaT ;2mm 652 ¬â 652¬â ¬â ¢Ã ¬â = - o£Âsiv ed opmaC ;821â 821¬â ¢Ã = - o£Ã§Âisiuqa ed zirtam ;SM 28 = - EMIT OHCE ;sm 0036 Å ¬â ¬â = - o£Ã§Âiteper ed opmet :osufid rosnet od megamI .snegami 291 soditbo marof e sotunim 5 ed acrec ed iof o£Ã§Âazilatigid ed opmet O .xp/zH 002 ¬â ¬â ¬â = - adnab ed arugral ;2mm 422 ¬â 652 ¬â ¬â ¬â ¢Ã = - o£Âsiv ed opmaC ;3mm 1â1- £Ã1 Å ¬â ¢Ã ¬â = ¬â ¬â ¢Ãlexov ad ohnamaT ;652â 652 ¬â ¬â = ¬â = o£Ã§Âisiuqa ed zirtam ;°Â ¬â ¬â = = ¬â ¬â pilf ed olugn¢Ã ;sm 6.22 = - EMIT OHCE ;sm 002 ¬â ¬â = - o£Ã§Âiteper ed opmet :laruturtse megamI :setniuges so marof sortem¢Ãrap sO .ITD megami arap)IPE-ES(oce ed analp megami ed aicnªÃuqes ad oce-nips e latigas o£Ã§Âatneiro ed o£Âsrev amu me 1T ed siaruturtse snegami arap adasu iof ,)EGAR-PM(D3 o£Ã§Âazitengam rop adaraperp ,)EGAR-PM(adip¡Âr etneidarg ed oce ed snegami ed aicnªÃuqes A .ITD snegami e 1T me sadarednop snegami ririuqda arap odasu iof RM T 0.3 oirT snemeiS rennacs mU .1 alebaT an sodartsom o£Ãs sodahlated socinÃlc sodaD .aruderraV odaludom odaludom ocnarb o o£ÂtnE .laicapse o£Ã§Âazilamron a etnarud emulov ed seµÃ§Âaretla rasnepmoc arap onaibocaj etnanimreted o moc sadaludom marof adatnemges acnarb aicn¢Âtsbus ed snegami sA .satnemarref ed axiac anââ sodasu marof vokraM ed oir³Âtaela opmac ed atluco The images softened with a total width of 8 mm in half of the Gaussian kernel maximization (FWHM) to increase signal / rifle relationship and improve the ability to detect morphomam variations . Tensor diffuse images were analyzed with Voxel -based KTI -based dwarf [19] and completed by Statistic Trico 2 (SPM2, Department of Cognitive Neurology Wellcome, London, United Kingdom) and FSL (FSL, VERS 3.3; www.fmrib.ox. Software AC.uk/fsl). The main steps were as follows: 1. The DDDY Chain Correction was performed with the FMRRI diffusion toolbox in the FSL software for the images weighted by diffusion, which were transformed. in images corresponding to Bã ¢ âferences Âferences = âferences 2. The reconstruction of the tensioner was performed based on DTI, and the tensor matrix was diagonalized to obtain values itself Â »1, â» 2 and ã® Â »3, as well as the corresponding self -eventors, enter the FA value of each voxel was calculated according to the following fanmula .3. The image of each subject was normalized for the standard space of the Montreal Neurological Institute (MNI) using the PPE model with SPM2. Similarly, the relevant images of the FA were normalized for the mni space, and its parts of transformation remained equal to images B0. As a result, the size of each voxel was 2 to 2 - 2 mm3. 4. The softening of the space was performed for each FA image with Gaussian kernel of 8 mm FWHM. In Mother © All VBM, T tests were used for two samples to compare the volume of each voxel between strabismus and normal control groups using the covarion dwarf, with age and gender as covarial to control the Effect of age and sex. The statistical difference was defined when a p 20 voxels. In the whole VBA, two samples tests were used to compare FA values normal vocabulary and control groups in a voxel based manner using covariance analysis, with age and sex as covariable to control the effect of age and sex. The statistical differencedefined when a p 30 voxels. In comparison with the normal control group, the Strabismus group showed minor white volumes in the occipital turnover right, right occipital lobe/cuneus, right supparginal gyrus, right cingulate gyrus, right frontal lobe /SUBGYAL, Lower Temporal Gyrus, Parahiulepocampa Lower Gyrus of the left lobe Download: Figure 1. White Mattanal Regiars with reduced volumes in adult Strabismus. Strabismus patients had lower white matters in Varia regions, including the right occipital rotation (Z = +5), right occipital lobe/cuneus (Z = +33), supramarginal turns (z = +31), right cingulated (z = +29), right/sub-giral frontal lobe (z = +44), lower temporal rocket (z = +31), . 0010931.G001 In comparison with the normal control group, the FA values were diminished throughout the hemisfan of the strict group, including occipital turning and supramarginal gyrus (p

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