



...nerve fiber
...using the Stratus OCT
...eyes,
...M

Stratus OCT™ Direct Cross-Sectional Imaging
Compendium of Peer-Reviewed, Published Clinical Evidence



Bibliography of Selected Clinical Papers

November 2006

Table of Contents

Glaucoma	1
Diabetic Retinopathy	4
Retinal Dystrophy	6
Retinal Detachment	7
Central Serous Chorioretinopathy	8
Other Retina	9
Macular Edema	13
Macular Degeneration	14
Macular Holes and Vitreoretinal Interface	16
Other Macula	18
Cataract Surgery	19
Other Ophthalmic Applications	20
General Information	22

Note: To view complete article, please click on the title of abstract.
This will navigate you to the pubmed website, www.pubmed.gov.

Glaucoma

Shah NN, Bowd C, Medeiros FA, et al. [Combining structural and functional testing for detection of glaucoma](#). *Ophthalmology*. 2006 Sep;113:1593-1602.
PMID: 16949444

Badlani V, Shahidi M, Shakoor A, Edward DP, Zelkha R, Wilensky J. [Nerve fiber layer thickness in glaucoma patients with asymmetric hemifield visual field loss](#). *J Glaucoma*. 2006 Aug;15:275-280.
PMID: 16865002

Hwang JM, Kim TW, Park KH, Kim DM, Kim H. [Correlation between topographic profiles of localized retinal nerve fiber layer defects as determined by optical coherence tomography and red-free fundus photography](#). *J Glaucoma*. 2006 Jun;15:223-228.
PMID: 16778645

Sihota R, Sony P, Gupta V, Dada T, Singh R. [Diagnostic capability of optical coherence tomography in evaluating the degree of glaucomatous retinal nerve fiber damage](#). *Invest Ophthalmol Vis Sci*. 2006 May;47:2006-2010.
PMID: 16639009

Tsai JC. [Optical coherence tomography measurement of retinal nerve fiber layer after acute primary angle closure with normal visual field](#). *Am J Ophthalmol*. 2006 May;141:970-972.
PMID: 16678526

Manassakorn A, Nouri-Mahdavi K, Caprioli J. [Comparison of retinal nerve fiber layer thickness and optic disk algorithms with optical coherence tomography to detect glaucoma](#). *Am J Ophthalmol*. 2006 Jan;141:105-115.
PMID: 16386983

Jeoung JW, Park KH, Kim TW, Khwarg SI, Kim DM. [Diagnostic ability of optical coherence tomography with a normative database to detect localized retinal nerve fiber layer defects](#). *Ophthalmology*. 2005 Dec;112:2157-2163.
PMID: 16290196

Asaoka R, Ishii R, Kyu N, Hotta Y, Sato M. [Early detection of thinning of retinal nerve fiber layer in glaucomatous eyes by optical coherence tomography 3000: analysis of retinal nerve fiber layer corresponding to the preserved hemivisual field](#). *Ophthalmic Res*. 2005 Dec;38:29-35.
PMID: 16192746

Bagga H, Greenfield DS, Knighton RW. [Macular symmetry testing for glaucoma detection](#). *J Glaucoma*. 2005 Oct;14:358-363.
PMID: 16148583

“RNFL thickness measured on OCT may serve as useful adjuncts in accurately and more objectively distinguishing normal from glaucomatous eyes, even in the early stages of glaucoma”

Ahn HC, Son HW, Kim JS, Lee JH. [Quantitative analysis of retinal nerve fiber layer thickness of normal children and adolescents](#). *Korean J Ophthalmol*. 2005 Sep;19:195-200.
PMID: 16209281

Sihota R, Sony P, Gupta V, Dada T, Singh R. [Comparing glaucomatous optic neuropathy in primary open angle and chronic primary angle closure glaucoma eyes by optical coherence tomography](#). *Ophthalmic Physiol Opt*. 2005 Sep;25:408-415.
PMID: 16101946

Leung CK, Chan WM, Chong KK, et al. [Comparative study of retinal nerve fiber layer measurement by Stratus OCT and GDx VCC, I: correlation analysis in glaucoma](#). *Invest Ophthalmol Vis Sci*. 2005 Sep;46:3214-3220.
PMID: 16123421

Kim DM, Hwang US, Park KH, Kim SH. [Retinal nerve fiber layer thickness in the fellow eyes of normal-tension glaucoma patients with unilateral visual field defect](#). *Am J Ophthalmol*. 2005 Jul;140:165-166.
PMID: 16038674

Wollstein G, Schuman JS, Price LL, et al. [Optical coherence tomography longitudinal evaluation of retinal nerve fiber layer thickness in glaucoma](#). *Arch Ophthalmol*. 2005 Apr;123:464-470.
PMID: 15824218

Hess DB, Asrani SG, Bhide MG, Enyedi LB, Stinnett SS, Freedman SF. [Macular and retinal nerve fiber layer analysis of normal and glaucomatous eyes in children using optical coherence tomography](#). *Am J Ophthalmol*. 2005 Mar;139:509-517.
PMID: 15767062

Choi MG, Han M, Kim YI, Lee JH. [Comparison of glaucomatous parameters in normal, ocular hypertensive and glaucomatous eyes using optical coherence tomography 3000](#). *Korean J Ophthalmol*. 2005 Mar;19:40-46.
PMID: 15929486

Leung CK, Chan WM, Yung WH, et al. [Comparison of macular and peripapillary measurements for the detection of glaucoma: an optical coherence tomography study](#). *Ophthalmology*. 2005 Mar;112:391-400.
PMID: 15745764

Medeiros FA, Zangwill LM, Bowd C, Vessani RM, Susanna R Jr, Weinreb RN. [Evaluation of retinal nerve fiber layer, optic nerve head, and macular thickness measurements for glaucoma detection using optical coherence tomography](#). *Am J Ophthalmol*. 2005 Jan;139:44-55.
PMID: 15652827

Wollstein G, Ishikawa H, Wang J, Beaton SA, Schuman JS. [Comparison of three optical coherence tomography scanning areas for detection of glaucomatous damage.](#) *Am J Ophthalmol.* 2005 Jan;139:39-43.

PMID: 15652826

Budenz DL, Michael A, Chang RT, McSoley J, Katz J. [Sensitivity and specificity of the Stratus OCT for perimetric glaucoma.](#) *Ophthalmology.* 2005 Jan;112:3-9.

PMID: 15629813

Sanchez-Galeana CA, Bowd C, Zangwill LM, Sample PA, Weinreb RN. [Short-wavelength automated perimetry results are correlated with optical coherence tomography retinal nerve fiber layer thickness measurements in glaucomatous eyes.](#) *Ophthalmology.* 2004 Oct;111:1866-1872.

PMID: 15465548

Mok KH, Lee VW, So KF. [Retinal nerve fiber loss in high- and normal-tension glaucoma by optical coherence tomography.](#) *Optom Vis Sci.* 2004 May;81:369-372.

PMID: 15181362

El Beltagi TA, Bowd C, Boden C, et al. [Retinal nerve fiber layer thickness measured with optical coherence tomography is related to visual function in glaucomatous eyes.](#) *Ophthalmology.* 2003 Nov;110:2185-2191.

PMID: 14597528

Varma R, Bazzaz S, Lai M. [Optical tomography-measured retinal nerve fiber layer thickness in normal Latinos.](#) *Invest Ophthalmol Vis Sci.* 2003 Aug;44:3369-3373.

PMID: 12882783

Lederer DE, Schuman JS, Hertzmark E, et al. [Analysis of macular volume in normal and glaucomatous eyes using optical coherence tomography.](#) *Am J Ophthalmol.* 2003 Jun;135:838-843.

PMID: 12788124

Kanamori A, Nakamura M, Escano MF, Seya R, Maeda H, Negi A. [Evaluation of the glaucomatous damage on retinal nerve fiber layer thickness measured by optical coherence tomography.](#) *Am J Ophthalmol.* 2003 Apr;135:513-520.

PMID: 12654369

Greenfield DS, Bagga H, Knighton RW. [Macular thickness changes in glaucomatous optic neuropathy detected using optical coherence tomography.](#) *Arch Ophthalmol.* 2003 Jan;121:41-46.

PMID: 12523883

“The sensitivity and specificity of RNFL measurements using the new Stratus OCT for glaucoma with manifest visual field defects are excellent.”

Diabetic Retinopathy

Kim BY, Smith SD, Kaiser PK. [Optical coherence tomographic patterns of diabetic macular edema](#). *Am J Ophthalmol*. 2006 Sep;142:405-412.

PMID: 16935584

Kang SW, Sa HS, Cho HY, Kim JI. [Macular grid photocoagulation after intravitreal triamcinolone acetonide for diffuse diabetic macular edema](#). *Arch Ophthalmol*. 2006 May;124:653-658.

PMID: 16682586

Bandello F, Polito A, Pognuz DR, Monaco P, Dimastrogiovanni A, Paissios J. [Triamcinolone as adjunctive treatment to laser panretinal photocoagulation for proliferative diabetic retinopathy](#). *Arch Ophthalmol*. 2006 May;124:643-650.

PMID: 16682585

Shimura M, Yasuda K, Shiono T. [Posterior sub-Tenon's capsule injection of triamcinolone acetonide prevents panretinal photocoagulation-induced visual dysfunction in patients with severe diabetic retinopathy and good vision](#). *Ophthalmology*. 2006 Mar;113:381-387.

PMID: 16458970

Shah SP, Patel M, Thomas D, Aldington S, Laidlaw DA. [Factors predicting outcome of vitrectomy for diabetic macular oedema: results of a prospective study](#). *Br J Ophthalmol*. 2006 Jan;90:33-36.

PMID: 16361663

Sugimoto M, Sasoh M, Ido M, Wakitani Y, Takahashi C, Uji Y. [Detection of early diabetic change with optical coherence tomography in type 2 diabetes mellitus patients without retinopathy](#). *Ophthalmologica*. 2005 Nov-Dec;219:379-385.

PMID: 16286799

Browning DJ, Fraser CM. [Regional patterns of sight-threatening diabetic macular edema](#). *Am J Ophthalmol*. 2005 Jul;140:117-124.

PMID: 15953575

Hussain A, Hussain N, Nutheti R. [Comparison of mean macular thickness using optical coherence tomography and visual acuity in diabetic retinopathy](#). *Clin Experiment Ophthalmol*. 2005 Jun;33:240-245.

PMID: 15932526

Larsson J, Zhu M, Sutter F, Gillies MC. [Relation between reduction of foveal thickness and visual acuity in diabetic macular edema treated with intravitreal triamcinolone](#). *Am J Ophthalmol*. 2005 May;139:802-806.

PMID: 15860283

Gaucher D, Tadayoni R, Erginay A, Haouchine B, Gaudric A, Massin P. [Optical coherence tomography assessment of the vitreoretinal relationship in diabetic macular edema.](#) *Am J Ophthalmol.* 2005 May;139:807-813.
PMID: 15860284

Ozdek SC, Erdinc MA, Gurelik G, Aydin B, Bahceci U, Hasanreisoglu B. [Optical coherence tomographic assessment of diabetic macular edema: comparison with fluorescein angiographic and clinical findings.](#) *Ophthalmologica.* 2005 Mar-Apr;219:86-92.
PMID: 15802932

Browning DJ, McOwen MD, Bowen RM Jr, O'Marah TL. [Comparison of the clinical diagnosis of diabetic macular edema with diagnosis by optical coherence tomography.](#) *Ophthalmology.* 2004 Apr;111:712-715.
PMID: 15051203

Kang SW, Park CY, Ham DI. [The correlation between fluorescein angiographic and optical coherence tomographic features in clinically significant diabetic macular edema.](#) *Am J Ophthalmol.* 2004 Feb;137:313-322.
PMID: 14962423

“ . . . OCT can facilitate deciding on the treatment protocol (surgical or medical) and follow-up of diabetic patients, which is especially important in the early stages of diabetic maculopathy when the structural changes are not yet evident with slit-lamp biomicroscopy or angiographically.”

Retinal Dystrophy

Apushkin MA, Fishman GA, Janowicz MJ. [Correlation of optical coherence tomography findings with visual acuity and macular lesions in patients with X-linked retinoschisis.](#)

Ophthalmology. 2005 Mar;112:495-501.

PMID: 15745780

Kim JW, Boes DA, Kinyoun JL. [Optical coherence tomography of bilateral posterior microphthalmos with papillomacular fold and novel features of retinoschisis and dialysis.](#)

Am J Ophthalmol. 2004 Sep;138:480-481.

PMID: 15364236

Benhamou N, Messas-Kaplan A, Cohen Y, et al. [Adult-onset foveomacular vitelliform dystrophy with OCT 3.](#) *Am J Ophthalmol.* 2004 Aug;138:294-296.

PMID: 15289144

Retinal Detachment

Lecleire-Collet A, Muraine M, Menard JF, Brasseur G. [Evaluation of macular changes before and after successful retinal detachment surgery using stratus-optical coherence tomography.](#) *Am J Ophthalmol.* 2006 Jul;142:176-179.

PMID: 16815277

Lai MM, Joshi MM, Trese MT. [Spontaneous resolution of traumatic macular hole-related retinal detachment.](#) *Am J Ophthalmol.* 2006 Jun;141:1148-1151.

PMID: 16765695

Ho TC, Tsai PC, Chen MS, Lin LL. [Optical coherence tomography in the detection of retinal break and management of retinal detachment in morning glory syndrome.](#) *Acta Ophthalmol Scand.* 2006 Apr;84:225-227.

PMID: 16637841

Ratiglia R, Osnaghi S, Bindella A, Pirondini C. [Posterior traction retinal detachment in highly myopic eyes: clinical features and surgical outcome as evaluated by optical coherence tomography.](#) *Retina.* 2005 Jun;25:473-478.

PMID: 15933595

Wang Y, Li SY, Zhu M, et al. [Metamorphopsia after successful retinal detachment surgery: an optical coherence tomography study.](#) *Acta Ophthalmol Scand.* 2005 Apr;83:168-171.

PMID: 15799727

Lecleire-Collet A, Muraine M, Menard JF, Brasseur G. [Predictive visual outcome after macula-off retinal detachment surgery using optical coherence tomography.](#) *Retina.*

2005 Jan;25:44-53.

PMID: 15655440

Maruyama Y, Kishi S. [Tomographic features of serous retinal detachment in Vogt-Koyanagi-Harada syndrome.](#) *Ophthalmic Surg Lasers Imaging.* 2004 May-Jun;

35:239-242.

PMID: 15185793

Yetik H, Guzel H, Ozkan S. [Structural features of attached retina in rhegmatogenous retinal detachments.](#) *Retina.* 2004 Feb;24:63-68.

PMID: 15076946

“Preoperative macular analysis with OCT may help to predict visual outcome for patients with macula-off retinal detachment.”

Central Serous Chorioretinopathy

Valmaggia C, Niederberger H. [Photodynamic therapy in the treatment of chronic central serous chorioretinopathy](#). *Klin Monatsbl Augenheilkd*. 2006 May;223:372-375.
PMID: 16705507

Hussain N, Baskar A, Ram LM, Das T. [Optical coherence tomographic pattern of fluorescein angiographic leakage site in acute central serous chorioretinopathy](#). *Clin Experiment Ophthalmol*. 2006 Mar;34:137-140.
PMID: 16626427

Eandi CM, Chung JE, Cardillo-Piccolino F, Spaide RF. [Optical coherence tomography in unilateral resolved central serous chorioretinopathy](#). *Retina*. 2005 Jun;25:417-421.
PMID: 15933586

Montero JA, Ruiz-Moreno JM. [Optical coherence tomography characterisation of idiopathic central serous chorioretinopathy](#). *Br J Ophthalmol*. 2005 May;89:562-564.
PMID: 15834085

Piccolino FC, de la Longrais RR, Ravera G, et al. [The foveal photoreceptor layer and visual acuity loss in central serous chorioretinopathy](#). *Am J Ophthalmol*. 2005 Jan;139:87-99.
PMID: 15652832

“OCT may offer a new approach to the staging and knowledge of idiopathic central serous chorioretinopathy”

Other Retina

Fujihara M, Kikuchi M, Kurimoto Y. [Methanol-induced retinal toxicity patient examined by optical coherence tomography](#). *Jpn J Ophthalmol*. 2006 May-Jun;50:239-241.
PMID: 16767379

Oh KT, Vallar C. [Central cone dysfunction in autosomal dominant vitreoretino choroidopathy \(ADVIRC\)](#). *Am J Ophthalmol*. 2006 May;141:940-943.
PMID: 16678511

Tran HV, Borruat FX, Reymond-Gruber S, Schorderet D, Munier F. [Evanescent white linear flecks and posterior microphthalmos: new features of a recently established disease](#). *Klin Monatsbl Augenheilkd*. 2006 May;223:397-399.
PMID: 16705514

Garcia-Arumi J, Boixadera A, Martinez-Castillo V, Blasco H, Lavaque A, Corcostegui B. [Radial optic neurotomy for management of hemicentral retinal vein occlusion](#). *Arch Ophthalmol*. 2006 May;124:690-695.
PMID: 16682591

Garcia-Layana A, Salinas-Alaman A, Maldonado MJ, Sainz-Gomez C, Fernandez-Hortelano A. [Optical coherence tomography to monitor photodynamic therapy in pathological myopia](#). *Br J Ophthalmol*. 2006 May;90:555-558.
PMID: 16464970

Kozak I, Bartsch DU, Cheng L, Freeman WR. [In vivo histology of cotton-wool spots using high-resolution optical coherence tomography](#). *Am J Ophthalmol*. 2006 Apr;141:748-750.
PMID: 16564817

Shields CL, Materin MA, Walker C, Marr BP, Shields JA. [Photoreceptor loss overlying congenital hypertrophy of the retinal pigment epithelium by optical coherence tomography](#). *Ophthalmology*. 2006 Apr;113:661-665.
PMID: 16581426

Joshi MM, Trese MT, Capone A Jr. [Optical coherence tomography findings in stage 4A retinopathy of prematurity: a theory for visual variability](#). *Ophthalmology*. 2006 Apr;113:657-660.
PMID: 16581425

Karacorlu M, Ozdemir H, Arf Karacorlu S. [Optical coherence tomography findings in branch retinal artery occlusion](#). *Eur J Ophthalmol*. 2006 Mar-Apr;16:352-353.
PMID: 16703561

“Cotton wool spots show a hyper-reflective pattern on OCT that persists even after they become ophthalmoscopically invisible.”

- Patel CK. [Optical coherence tomography in the management of acute retinopathy of prematurity](#). *Am J Ophthalmol*. 2006 Mar;141:582-584.
PMID: 16490519
- Van de Moere A, Sandhu SS, Talks SJ. [Correlation of optical coherence tomography and fundus fluorescein angiography following photodynamic therapy for choroidal neovascular membranes](#). *Br J Ophthalmol*. 2006 Mar;90:304-306.
PMID: 16488950
- Michels S, Aue A, Simader C, Geitzenauer W, Sacu S, Schmidt-Erfurth U. [Retinal pigment epithelium tears following verteporfin therapy combined with intravitreal triamcinolone](#). *Am J Ophthalmol*. 2006 Feb;141:396-398.
PMID: 16458709
- Yamashita T, Uemura A, Kita H, Sakamoto T. [Analysis of the retinal nerve fiber layer after indocyanine green-assisted vitrectomy for idiopathic macular holes](#). *Ophthalmology*. 2006 Feb;113:280-284.
PMID: 16458094
- Hargitai J, Zernant J, Somfai GM, et al. [Correlation of clinical and genetic findings in Hungarian patients with Stargardt disease](#). *Invest Ophthalmol Vis Sci*. 2005 Dec;46:4402-4408.
PMID: 16303926
- Gupta V, Gupta A, Dogra MR, Agarwal A. [Optical coherence tomography in group 2A idiopathic juxtafoveal telangiectasis](#). *Ophthalmic Surg Lasers Imaging*. 2005 Nov-Dec;36:482-486.
PMID: 16355952
- Hayashi T, Kitahara K. [Optical coherence tomography in enhanced S-cone syndrome: large macular retinoschisis with disorganized retinal lamination](#). *Eur J Ophthalmol*. 2005 Sep-Oct;15:643-646.
PMID: 16167297
- Ishikawa K, Terasaki H, Mori M, Sugita K, Miyake Y. [Optical coherence tomography before and after vitrectomy with internal limiting membrane removal in a child with optic disc pit maculopathy](#). *Jpn J Ophthalmol*. 2005 Sep-Oct;49:411-413.
PMID: 16187043
- Hirakata A, Hida T, Ogasawara A, Iizuka N. [Multilayered retinoschisis associated with optic disc pit](#). *Jpn J Ophthalmol*. 2005 Sep-Oct;49:414-416.
PMID: 16187044

Sandberg MA, Brockhurst RJ, Gaudio AR, Berson EL. [The association between visual acuity and central retinal thickness in retinitis pigmentosa.](#) *Invest Ophthalmol Vis Sci.* 2005 Sep;46:3349-3354.
PMID: 16123439

Ozdemir H, Karacorlu M, Karacorlu S. [Serous macular detachment in central retinal vein occlusion.](#) *Retina.* 2005 Jul-Aug;25:561-563.
PMID: 16077350

Stewart MW, Brazis PW, Barrett KM, Eidelman BH, Mendez JC. [Optical coherence tomography in a case of bilateral neuroretinitis.](#) *J Neuroophthalmol.* 2005 Jun; 25:131-133.
PMID: 15937438

Shields CL, Mashayekhi A, Materin MA, et al. [Optical coherence tomography of choroidal nevus in 120 patients.](#) *Retina.* 2005 Apr-May;25:243-252.
PMID: 15805899

Emfietzoglou I, Grigoropoulos V, Kipiotti A, Alimisi S, Theodossiadis PG, Theodossiadis GP. [Optical coherence tomography appearance of "drusenoid" pigment epithelial detachment.](#) *Ophthalmic Surg Lasers Imaging.* 2005 Mar-Apr;36:147-150.
PMID: 15792317

Apushkin MA, Fishman GA, Janowicz MJ. [Correlation of optical coherence tomography findings with visual acuity and macular lesions in patients with X-linked retinoschisis.](#) *Ophthalmology.* 2005 Mar;112:495-501.
PMID: 15745780

Savini G, Barboni P, Valentino ML, et al. [Retinal nerve fiber layer evaluation by optical coherence tomography in unaffected carriers with Leber's hereditary optic neuropathy mutations.](#) *Ophthalmology.* 2005 Jan;112:127-131.
PMID: 15629832

Meyer CH, Rodrigues EB, Mennel S, Schmidt JC. [Optical coherence tomography in a case of Bietti's crystalline dystrophy.](#) *Acta Ophthalmol Scand.* 2004 Oct;82:609-612.
PMID: 15453864

Monteiro ML, Leal BC, Rosa AA, Bronstein MD. [Optical coherence tomography analysis of axonal loss in band atrophy of the optic nerve.](#) *Br J Ophthalmol.* 2004 Jul;88:896-899.
PMID: 15205233

Jorge R, Costa RA, Quirino LS, et al. [Optical coherence tomography findings in patients with late solar retinopathy.](#) *Am J Ophthalmol.* 2004 Jun;137:1139-1143.
PMID: 15183809

“. . . . the OCT third high-reflectance band may help to predict which patients are more likely to lose visual acuity as retinal thickness declines.”

Soucek P, Cihelkova I. [Evaluation of subretinal fluid absorption by optical coherence tomography in circumscribed choroidal hemangioma after photodynamic therapy with Verteporfin.](#) *Neuro Endocrinol Lett.* 2004 Feb-Apr;25:109-114.

PMID: 15159693

Espinoza G, Rosenblatt B, Harbour JW. [Optical coherence tomography in the evaluation of retinal changes associated with suspicious choroidal melanocytic tumors.](#) *Am J Ophthalmol.* 2004 Jan;137:90-95.

PMID: 14700649

Macular Edema

Chen SD, Sundaram V, Lochhead J, Patel CK. [Intravitreal triamcinolone for the treatment of ischemic macular edema associated with branch retinal vein occlusion.](#) *Am J Ophthalmol.* 2006 May;141:876-883.
PMID: 16527226

Grover S, Apushkin MA, Fishman GA. [Topical dorzolamide for the treatment of cystoid macular edema in patients with retinitis pigmentosa.](#) *Am J Ophthalmol.* 2006 May;141:850-858.
PMID: 16546110

Iturralde D, Spaide RF, Meyerle CB, et al. [Intravitreal bevacizumab \(Avastin\) treatment of macular edema in central retinal vein occlusion: a short-term study.](#) *Retina.* 2006 Mar;26:279-284.
PMID: 16508427

Catier A, Tadayoni R, Paques M, et al. [Characterization of macular edema from various etiologies by optical coherence tomography.](#) *Am J Ophthalmol.* 2005 Aug;140:200-206.
PMID: 15992752

Oliveira TL, Andrade RE, Muccioli C, Sallum J, Belfort R Jr. [Cystoid macular edema in gyrate atrophy of the choroid and retina: a fluorescein angiography and optical coherence tomography evaluation.](#) *Am J Ophthalmol.* 2005 Jul;140:147-149.
PMID: 16038665

Shimura M, Saito T, Yasuda K, Tamai M. [Clinical course of macular edema in two cases of interferon-associated retinopathy observed by optical coherence tomography.](#) *Jpn J Ophthalmol.* 2005 May-Jun;49:231-234.
PMID: 15944830

Apushkin MA, Fishman GA, Janowicz MJ. [Monitoring cystoid macular edema by optical coherence tomography in patients with retinitis pigmentosa.](#) *Ophthalmology.* 2004 Oct;111:1899-1904.
PMID: 15465554

Markomichelakis NN, Halkiadakis I, Pantelia E, et al. [Patterns of macular edema in patients with uveitis: qualitative and quantitative assessment using optical coherence tomography.](#) *Ophthalmology.* 2004 May;111:946-953.
PMID: 15121373

“OCT characterized the retinal morphologic changes associated with macular edema, especially the vitreomacular relationship and sub-clinical serous macular detachment.”

Macular Degeneration

Rich RM, Rosenfeld PJ, Puliafito CA, et al. [Short-term safety and efficacy of intravitreal bevacizumab \(Avastin\) for neovascular age-related macular degeneration.](#) *Retina.* 2006 May-Jun;26:495-511.
PMID: 16770255

Spaide RF, Laud K, Fine HF, et al. [Intravitreal bevacizumab treatment of choroidal neovascularization secondary to age-related macular degeneration.](#) *Retina.* 2006 Apr;26:383-390.
PMID: 16603955

Schuman S, Rogers AH, Duker JS, Reichel E, Bauman CR. [Six-week outcomes after pegaptanib.](#) *Ophthalmology.* 2006 Mar;113:501.
PMID: 16513466

Ozdemir H, Karacorlu SA, Karacorlu M. [Early optical coherence tomography changes after photodynamic therapy in patients with age-related macular degeneration.](#) *Am J Ophthalmol.* 2006 Mar;141:574-576.
PMID: 16490515

Avery RL, Pieramici DJ, Rabena MD, Castellarin AA, Nasir MA, Giust MJ. [Intravitreal bevacizumab \(Avastin\) for neovascular age-related macular degeneration.](#) *Ophthalmology.* 2006 Mar;113:363-372.
PMID: 16458968

Krebs I, Binder S, Stolba U, et al. [Optical coherence tomography guided retreatment of photodynamic therapy.](#) *Br J Ophthalmol.* 2005 Sep;89:1184-1187.
PMID: 16113378

Emerson GG, Ghazi NG. [Spontaneous rip of the retinal pigment epithelium with a macular hole in neovascular age-related macular degeneration.](#) *Am J Ophthalmol.* 2005 Aug;140:316-318.
PMID: 16086957

Costa RA, Calucci D, Paccola L, et al. [Occult chorioretinal anastomosis in age-related macular degeneration: a prospective study by optical coherence tomography.](#) *Am J Ophthalmol.* 2005 Jul;140:107-116.
PMID: 15963937

“The retreatment modalities can be optimised by using OCT and fluorescein angiography and the number of retreatments can be reduced.”

Salinas-Alaman A, Garcia-Layana A, Maldonado MJ, Sainz-Gomez C, Alvarez-Vidal A. [Using optical coherence tomography to monitor photodynamic therapy in age related macular degeneration.](#) *Am J Ophthalmol.* 2005 Jul;140:23-28.

PMID: 15922284

Sato T, Iida T, Hagimura N, Kishi S. [Correlation of optical coherence tomography with angiography in retinal pigment epithelial detachment associated with age-related macular degeneration.](#) *Retina.* 2004 Dec;24:910-914.

PMID: 15579989

Macular Holes and Vitreoretinal Interface

Lai MM, Joshi MM, Trese MT. [Spontaneous resolution of traumatic macular hole-related retinal detachment](#). *Am J Ophthalmol*. 2006 Jun;141:1148-1151.

PMID: 16765695

Lo WR, Hubbard GB. [Macular hole formation, spontaneous closure, and recurrence in a previously vitrectomized eye](#). *Am J Ophthalmol*. 2006 May;141:962-964.

PMID: 16678522

Kozak I, Freeman WR. [Nonprogressive extrafoveal retinal hole after foveal epiretinal membrane removal](#). *Am J Ophthalmol*. 2006 Apr;141:769-771.

PMID: 16564828

Sodi A, Bini A, Passerini I, Menchini U, Torricelli F. [Occurrence of full-thickness macular hole complicating Stargardt disease with ABCR mutation](#). *Eur J Ophthalmol*. 2006 Mar-Apr;16:335-338.

PMID: 16703556

Larsson J. [Vitrectomy in vitreomacular traction syndrome evaluated by ocular coherence tomography \(OCT\) retinal mapping](#). *Acta Ophthalmol Scand*. 2004 Dec;82:691-694.

PMID: 15606465

Haouchine B, Massin P, Tadayoni R, Erginay A, Gaudric A. [Diagnosis of macular pseudoholes and lamellar macular holes by optical coherence tomography](#). *Am J Ophthalmol*. 2004 Nov;138:732-739.

PMID: 15531306

Kusuhara S, Teraoka Escano MF, Fujii S, et al. [Prediction of postoperative visual outcome based on hole configuration by optical coherence tomography in eyes with idiopathic macular holes](#). *Am J Ophthalmol*. 2004 Nov;138:709-716.

PMID: 15531303

Chan A, Duker JS, Schuman JS, Fujimoto JG. [Stage 0 macular holes: observations by optical coherence tomography](#). *Ophthalmology*. 2004 Nov;111:2027-2032.

PMID: 15522368

Sengun A, Batioglu F, Akbatur H, Atmaca L. [Vitreoretinal surgery of retinal detachment and macular hole associated with optic nerve pit: an optical coherence tomography study](#). *Eur J Ophthalmol*. 2004 Jul-Aug;14:355-357.

PMID: 15309985

Levy J, Klemperer I, Belfair N, Rogozin A, Lifshitz T. [Rapid spontaneous resolution of vitreomacular traction syndrome documented by optical coherence tomography](#). *Int Ophthalmol*. 2004 Jul;25:247-251.

PMID: 16200453

“Optical coherence tomography is very useful in distinguishing macular pseudoholes attributable to epiretinal membrane contraction from lamellar macular holes because of partial opening of a macular cyst.”

Mori K, Gehlbach PL, Sano A, Deguchi T, Yoneya S. [Comparison of epiretinal membranes of differing pathogenesis using optical coherence tomography.](#) *Retina*. 2004 Feb; 24:57-62.

PMID: 15076945

Hussain N, Hussain A, Natarajan S. [Optical coherence tomographic evaluation of foveal pseudocyst in the formation of macular hole.](#) *Indian J Ophthalmol*. 2003 Dec;51:353-355.

PMID: 14750627

Sasahara M, Noami S, Takahashi M, Honda Y. [Optical coherence tomographic observations before and after macular hole formation secondary to laser injury.](#)

Am J Ophthalmol. 2003 Dec;136:1167-1170.

PMID: 14644236

Baba T, Hirose A, Kawazoe Y, Mochizuki M. [Optical coherence tomography for retinal detachment with a macular hole in a highly myopic eye.](#) *Ophthalmic Surg Lasers Imaging*.

2003 Nov-Dec;34:483-484.

PMID: 14620756

Kang SW, Ahn K, Ham DI. [Types of macular hole closure and their clinical implications.](#)

Br J Ophthalmol. 2003 Aug;87:1015-1019.

PMID: 12881347

Imai M, Ohshiro T, Gotoh T, Imasawa M, Iijima H. [Spontaneous closure of stage 2 macular hole observed with optical coherence tomography.](#) *Am J Ophthalmol*. 2003

Jul;136:187-188.

PMID: 12834692

Sato H, Kawasaki R, Yamashita H. [Observation of idiopathic full-thickness macular hole closure in early postoperative period as evaluated by optical coherence tomography.](#)

Am J Ophthalmol. 2003 Jul;136:185-187.

PMID: 12834691

Sou R, Kusaka S, Ohji M, Gomi F, Ikuno Y, Tano Y. [Optical coherence tomographic evaluation of a surgically treated traumatic macular hole secondary to Nd:YAG laser injury.](#) *Am J Ophthalmol*. 2003 Apr;135:537-539.

PMID: 12654374

Ito Y, Terasaki H, Suzuki T, et al. [Mapping posterior vitreous detachment by optical coherence tomography in eyes with idiopathic macular hole.](#) *Am J Ophthalmol*. 2003

Mar;135:351-355.

PMID: 12614753

Other Macula

Yannuzzi LA, Bardal AM, Freund KB, Chen KJ, Eandi CM, Blodi B. [Idiopathic macular telangiectasia](#). *Arch Ophthalmol*. 2006 Apr;124:450-460.
PMID: 16606869

Do P, Ferrucci S. [Adult-onset foveomacular vitelliform dystrophy](#). *Optometry*. 2006 Apr;77:156-166.
PMID: 16567277

Dajani HM, Lauer AK. [Optical coherence tomography findings in niacin maculopathy](#). *Can J Ophthalmol*. 2006 Apr;41:197-200.
PMID: 16767207

Albini TA, Benz MS, Coffee RE, et al. [Optical coherence tomography of idiopathic juxtafoveal telangiectasia](#). *Ophthalmic Surg Lasers Imaging*. 2006 Mar-Apr;37:120-128.
PMID: 16583633

Souied EH, Leveziel N, Letien V, Darmon J, Coscas G, Soubrane G. [Optical coherent tomography features of malattia leventinese](#). *Am J Ophthalmol*. 2006 Feb;141:404-407.
PMID: 16458713

Benson SE, Grigoropoulos V, Schlottmann PG, Bunce C, Charteris DG. [Analysis of the macula with optical coherence tomography after successful surgery for proliferative vitreoretinopathy](#). *Arch Ophthalmol*. 2005 Dec;123:1651-1656.
PMID: 16344435

Panozzo G, Mercanti A. [Optical coherence tomography findings in myopic traction maculopathy](#). *Arch Ophthalmol*. 2004 Oct;122:1455-1460.
PMID: 15477456

Garcia-Arumi J, Corcostegui Guraya B, Boixadera Espax A, Martinez Castillo V, Sararols Ramsay L, Motta RM. [Optical coherence tomography in optic pit maculopathy managed with vitrectomy-laser-gas](#). *Graefes Arch Clin Exp Ophthalmol*. 2004 Oct;242:819-826.
PMID: 15069565

Men G, Batioglu F, Ozkan SS, Atilla H, Ozdamar Y, Aslan O. [Best's vitelliform macular dystrophy with pseudohypopyon: an optical coherence tomography study](#). *Am J Ophthalmol*. 2004 May;137:963-965.
PMID: 15126177

Voo I, Mavrofrides EC, Puliafito CA. [Clinical applications of optical coherence tomography for the diagnosis and management of macular diseases](#). *Ophthalmol Clin North Am*. 2004 Mar;17:21-31.
PMID: 15102511

“OCT commonly reveals foveal cysts in stage 3 idiopathic juxtafoveal telangiectasia.”

“OCT is a uniquely powerful means of visualizing retinal morphology and pathology that may not be revealed using current techniques of biomicroscopy, fluorescein angiography, or B-scan ultrasonography”

Cataract Surgery

Ching HY, Wong AC, Wong CC, Woo DC, Chan CW. [Cystoid macular oedema and changes in retinal thickness after phacoemulsification with optical coherence tomography](#). *Eye*. 2006 Mar;20:297-303.

PMID: 15818389

Torron-Fernandez-Blanco C, Ruiz-Moreno O, Ferrer-Novella E, Sanchez-Cano A, Honrubia-Lopez FM. [Pseudophakic cystoid macular edema: assessment with optical coherence tomography \[in Spanish\]](#). *Arch Soc Esp Ophthalmol*. 2006 Mar;81:147-153.

PMID: 16572358

Nicholas S, Riley A, Patel H, Nevelson B, Purdie G, Wells AP. [Correlations between optical coherence tomography measurement of macular thickness and visual acuity after cataract extraction](#). *Clin Experiment Ophthalmol*. 2006 Mar;34:124-129.

PMID: 16626425

Lam DS, Chan CK, Mohamed S, et al. [Phacoemulsification with intravitreal triamcinolone in patients with cataract and coexisting diabetic macular oedema: a 6-month prospective pilot study](#). *Eye*. 2005 Aug;19:885-890.

PMID: 15389275

Ozdemir H, Karacorlu S, Karacorlu M. [Postoperative subretinal fluid associated with cystoid macular edema following cataract surgery](#). *Retina*. 2005 Feb-Mar;25:223-225.

PMID: 15689820

Lobo CL, Faria PM, Soares MA, Bernardes RC, Cunha-Vaz JG. [Macular alterations after small-incision cataract surgery](#). *J Cataract Refract Surg*. 2004 Apr;30:752-760.

PMID: 15093635

Benhamou N, Massin P, Haouchine B, Audren F, Tadayoni R, Gaudric A. [Intravitreal triamcinolone for refractory pseudophakic macular edema](#). *Am J Ophthalmol*.

2003 Feb;135:246-249.

PMID: 12566041

Other Ophthalmic Applications

Savini G, Bellusci C, Carbonelli M, et al. [Detection and quantification of retinal nerve fiber layer thickness in optic disc edema using Stratus OCT](#). *Arch Ophthalmol*. 2006 Aug;124:1111-1117.
PMID: 16908813

Salman A, Parmar P, Rajamohan M, Vanila CG, Thomas PA, Jesudasan CA. [Optical coherence tomography in choroidal tuberculosis](#). *Am J Ophthalmol*. 2006 Jul;142:170-172.
PMID: 16815274

Lobefalo L, Rapinese M, Altobelli E, et al. [Retinal nerve fiber layer and macular thickness in adolescents with epilepsy treated with valproate and carbamazepine](#). *Epilepsia*. 2006 Apr;47:717-719.
PMID: 16650137

Iseri PK, Altinas O, Tokay T, Yuksel N. [Relationship between cognitive impairment and retinal morphological and visual functional abnormalities in Alzheimer disease](#). *J Neuroophthalmol*. 2006 Mar;26:18-24.
PMID: 16518161

Sharma N, Sony P, Gupta A, Vajpayee RB. [Effect of laser in situ keratomileusis and laser-assisted subepithelial keratectomy on retinal nerve fiber layer thickness](#). *J Cataract Refract Surg*. 2006 Mar;32:446-450.
PMID: 16631055

Barthelmes D, Sutter FK, Kurz-Levin MM, et al. [Quantitative analysis of OCT characteristics in patients with achromatopsia and blue-cone monochromatism](#). *Invest Ophthalmol Vis Sci*. 2006 Mar;47:1161-1166.
PMID: 16505054

Wild JM, Robson CR, Jones AL, Cunliffe IA, Smith PE. [Detecting vigabatrin toxicity by imaging of the retinal nerve fiber layer](#). *Invest Ophthalmol Vis Sci*. 2006 Mar;47:917-924.
PMID: 16505024

Fisher JB, Jacobs DA, Markowitz CE, et al. [Relation of visual function to retinal nerve fiber layer thickness in multiple sclerosis](#). *Ophthalmology*. 2006 Feb;113:324-332.
PMID: 16406539

Shimada N, Ohno-Matsui K, Yoshida T, et al. [Characteristics of peripapillary detachment in pathologic myopia](#). *Arch Ophthalmol*. 2006 Jan;124:46-52.
PMID: 16401784

“OCT of the RNFL can efficiently identify vigabatrin-induced damage and will be useful for adults and children unable to perform perimetry and when the perimetric outcome is equivocal.”

Sergott RC. [Optical coherence tomography: measuring in-vivo axonal survival and neuroprotection in multiple sclerosis and optic neuritis.](#) *Curr Opin Ophthalmol.* 2005 Dec;16:346-350.
PMID: 16264344

Dementyev DD, Kourenkov VV, Rodin AS, Fadeykina TL, Diaz Martines TE. [Retinal nerve fiber layer changes after LASIK evaluated with optical coherence tomography.](#) *J Refract Surg.* 2005 Sep-Oct;21(5 suppl):S623-S627.
PMID: 16212292

Inzelberg R, Ramirez JA, Nisipeanu P, Ophir A. [Retinal nerve fiber layer thinning in Parkinson disease.](#) *Vision Res.* 2004 Nov;44:2793-2797.
PMID: 15342223

Mrugacz M, Bakunowicz-Lazarczyk A, Sredzinska-Kita D. [Use of optical coherence tomography in myopia.](#) *J Pediatr Ophthalmol Strabismus.* 2004 May-Jun;41:159-162.
PMID: 15206601

General Information

Huynh SC, Wang XY, Rochtchina E, Mitchell P. [Peripapillary retinal nerve fiber layer thickness in a population of 6-year-old children: findings by optical coherence tomography](#). *Ophthalmology*. 2006 Sep;113:1583-1592.

PMID: 16949443

Kampeter BA, Schubert KV, Budde WM, Degenring RF, Jonas JB. [Optical coherence tomography of the optic nerve head: interindividual reproducibility](#).

J Glaucoma. 2006 Jun;15:248-254.

PMID: 16778649

Huynh SC, Wang XY, Rochtchina E, Mitchell P. [Distribution of macular thickness by optical coherence tomography: findings from a population-based study of 6-year-old children](#). *Invest Ophthalmol Vis Sci*. 2006 Jun;47:2351-2357.

PMID: 16723444

Chen TC, Cense B, Miller JW, et al. [Histologic correlation of in vivo optical coherence tomography images of the human retina](#). *Am J Ophthalmol*. 2006 Jun;141:1165-1168.

PMID: 16765704

Salchow DJ, Oleynikov YS, Chiang MF, et al. [Retinal nerve fiber layer thickness in normal children measured with optical coherence tomography](#). *Ophthalmology*. 2006 May;113:786-791.

PMID: 16650674

Ghazi NG, Dibernardo C, Ying HS, Mori K, Gehlbach PL. [Optical coherence tomography of enucleated human eye specimens with histological correlation: origin of the outer "red line"](#). *Am J Ophthalmol*. 2006 Apr;141:719-726.

PMID: 16564808

Polito A, Del Borrello M, Isola M, Zemella N, Bandello F. [Repeatability and reproducibility of fast macular thickness mapping with Stratus optical coherence tomography](#). *Arch Ophthalmol*. 2005 Oct;123:1330-1337.

PMID: 16219723

Budenz DL, Chang RT, Huang X, Knighton RW, Tielsch JM. [Reproducibility of retinal nerve fiber thickness measurements using the Stratus OCT in normal and glaucomatous eyes](#). *Invest Ophthalmol Vis Sci*. 2005 Jul;46:2440-2443.

PMID: 15980233

Savini G, Zanini M, Carelli V, Sadun AA, Ross-Cisneros FN, Barboni P. [Correlation between retinal nerve fibre layer thickness and optic nerve head size: an optical coherence tomography study](#). *Br J Ophthalmol*. 2005 Apr;89:489-492.

PMID: 15774930

“Reproducibility of RNFL measurements using the Stratus OCT is excellent in normal and glaucomatous eyes.”

Browning DJ, Fraser CM. [Intraobserver variability in optical coherence tomography](#). *Am J Ophthalmol*. 2004 Sep;138:477-479.
PMID: 15364235

Patel CK, Chen SD, Farmery AD. [Optical coherence tomography under general anesthesia in a child with nystagmus](#). *Am J Ophthalmol*. 2004 Jun;137:1127-1129.
PMID: 15183803

Gurses-Ozden R, Teng C, Vessani R, Zafar S, Liebmann JM, Ritch R. [Macular and retinal nerve fiber layer thickness measurement reproducibility using optical coherence tomography \(OCT-3\)](#). *J Glaucoma*. 2004 Jun;13:238-244.
PMID: 15118470

Paunescu LA, Schuman JS, Price LL, et al. [Reproducibility of nerve fiber thickness, macular thickness, and optic nerve head measurements using Stratus OCT](#). *Invest Ophthalmol Vis Sci*. 2004 Jun;45:1716-1724.
PMID: 15161831

Villain MA, Greenfield DS. [Peripapillary nerve fiber layer thickness measurement reproducibility using optical coherence tomography](#). *Ophthalmic Surg Lasers Imaging*. 2003 Jan-Feb;34:33-37.
PMID: 12570002

Carl Zeiss Meditec AG

Goeschwitzer Str. 51-52
07745 Jena
Germany
Telefon: +49 (0)36 41 / 2 20-3 33
Telefax: +49 (0)36 41 / 2 20-2 82
info@meditec.zeiss.com
www.meditec.zeiss.com

Carl Zeiss Meditec, Inc.

5160 Hacienda Drive
Dublin, CA 94568
USA
Tel: 1-925-557-4100
Toll free: 1-800-342-9821
Fax: 1-925-557-4101
info@meditec.zeiss.com
www.meditec.zeiss.com