Appendix A: Search strategy and search results.

Searches were performed at http://arvojournals.org/Solr/advancedSearch.aspx in January 2015.

#	Search term	2010	2009	2008	2007
	Total number of abstracts presented	*6310*	*6236*	*6058*	*5893*
1	diagnostic accuracy (all)	26	16	17	11
2	sensitivity specificity (all)	91	77	92	74
3	sensitivity specific (all)	49	44	55	40
4	sensitive specificity (all)	12	11	15	11
5	sensitive specific (all)	46	51	40	34
6	"true positive rate" (all)	1	0	0	0
7	"false positive rate" (all)	4	6	3	5
8	"true positive ratio" (all)	1	0	0	0
9	"false positive ratio" (all)	1	0	0	0
10	"true positive fraction" (all)	0	0	0	0
11	"false positive fraction" (all)	0	0	0	0
12	TPR FPR TPF FPF (any)	0	0	1	0
13	"predictive value" (all)	25	26	23	27
14	"predictive values" (all)	8	4	7	3
15	PPV NPV (all)	6	2	8	4
16	"likelihood ratio" (all)	2	3	4	4
17	"likelihood ratios" (all)	2	2	3	1
18	"diagnostic odds ratio" (all)	0	0	0	0
19	"diagnostic odds ratios" (all)	0	0	1	0
20	DOR (all)	0	1	0	0
21	AUC ROC AUROC AUCROC (any)	76	65	55	33
22	"AUC-ROC" (all)	0	0	2	0
23	"receiver operating" (all)	34	28	32	23
24	"receiver operator" (all)	7	6	3	3
25	"c statistic" (all)	0	1	0	2
26	"c index" (all)	2	1	0	1
27	youden (all)	0	0	1	0
28	"diagnostic performance" (all)	18	9	9	5
29	"diagnostic ability" (all)	11	7	6	2
30	"discriminative ability" (all)	3	0	1	1
31	"gold standard" (all)	30	27	34	21
32	"reference standard" (all)	9	9	11	2
33	"reference test" (all)	2	0	0	0
34	"index test" (all)	0	0	0	0
	Results before deduplication	**466**	**396**	**423**	**307**
	Results after deduplication	**271**	**246**	**243**	**198**
	Abstracts of diagnostic accuracy studies included	**126**	**96**	**102**	**75**

Appendix B: List of included abstracts (n=399).

Abstracts included per year of presentation:

2007: n=75[1-75]; 2008: n=102[76-177]; 2009: n=96[178-273]; 2010: n=126[274-399].

(1)   Adams RJ, Drover JR, Kean PG, Courage ML. The Economics of Pediatric Eye/Vision Screening: Calculating the Cost-Effectiveness of a Large-Scale Preschool Vision Screening Program. *Invest Ophthalmol Vis Sci* 2007;48:4835.

(2)   Agoumi Y, Kamdeu Fansi A, Harasymowycz P. Validity of Screening for Glaucomatous Optic Nerve Damage Using Confocal Scanning Laser Ophthalmoscopy (Heidelberg Retina Tomograph III) in High-Risk Populations. *Invest Ophthalmol Vis Sci* 2007;48:3321.

(3)   Anderson W, Gregori G, Budenz DL. Total Retinal Thickness Defects on Spectral Domain Optical Coherence Tomography Are Correlated With Glaucomatous Visual Field Abnormalities. *Invest Ophthalmol Vis Sci* 2007;48:496.

(4)   Aung T, Lavanya R, Sakata LM et al. Screening for Angle Closure in the Singapore Population: Evaluation of 3 New Non-Contact Devices. *Invest Ophthalmol Vis Sci* 2007;48:866.

(5)   Balasubramanian M, Bowd C, Wolenski P et al. Evaluation of a Novel Proper Orthogonal Decomposition (POD) Framework for Detecting Glaucomatous Changes in Human Subjects. *Invest Ophthalmol Vis Sci* 2007;48:3331.

(6)   Barak V, Frenkel S, Kalickman I, Hendler K, Folberg R, Pe'er J. TPS - A Potential Blood Marker for Detecting Metastatic Uveal Melanoma. *Invest Ophthalmol Vis Sci* 2007;48:1947.

(7)   Bayer AU, Dunker S, Sebag J, German Eye Disease Study G. German Eye Disease Study: Outcomes Research in the Diagnosis and Management of Glaucoma. *Invest Ophthalmol Vis Sci* 2007;48:855.

(8)   Bizios D, Bengtsson B, Hougaard JL, Heijl A. Processing of Optical Coherence Tomography (OCT) Data for Glaucoma Detection With Machine Learning Classifiers. *Invest Ophthalmol Vis Sci* 2007;48:525.

(9)   Block SS, Needham A, Peterson S. Comparison of Results of the Randot Stereo Smile Test II to the Random Dot "E" Test of Stereopsis in a Screening Setting. *Invest Ophthalmol Vis Sci* 2007;48:5533.

(10)   Buchanan CR, Trucco E, England G, Cairns D, Mazo C. Automated Detection of Hyperfluorescent Leakage in Fluorescein Angiograms. *Invest Ophthalmol Vis Sci* 2007;48:2757.

(11)   Chalam K, Syed F, Siffirt J, Syed S, Grover S. Evaluation of Modified Portable Digital Camera as Screening Tool in Retinal Disorders. *Invest Ophthalmol Vis Sci* 2007;48:2577.

(12)   Chen HY, Huang ML, Hung PT. Artificial Neural Network for Glaucoma Diagnosis Using Scanning Laser Polarimetry-Variable Cornea Compensation Measurements in Taiwan Chinese Population. *Invest Ophthalmol Vis Sci* 2007;48:500.

(13)   Cheng H, Laron M, Schiffman JS et al. Assessing Visual Pathway Function in Multiple Sclerosis (MS) Patients Using Multifocal Visual Evoked Potential (mfVEP) Technique. *Invest Ophthalmol Vis Sci* 2007;48:3765.

(14)   Covert DJ, Mancini R, Mantravadi AV. The Relationship Between Diabetic Patients' Subjective Estimates of Daily Capillary Blood Glucose and Objective Measures Including Hemoglobin A1C, Insulin Use, Type of Diabetes and Presence of Diabetic Retinopathy. *Invest Ophthalmol Vis Sci* 2007;48:168.

(15)   Cronin TH, Thompson PP, Kowalski RP. Clinical Correlations of Herpes Simplex Culture Results: When PCR and Standard Viral Culture Results Don't Match. *Invest Ophthalmol Vis Sci* 2007;48:3798.

(16)   Demirel S, Fortune B, Zhang X et al. Effect of Recording Duration on Diagnostic Performance of Multifocal Visual Evoked Potentials in High-Risk Ocular Hypertension and Early Glaucoma. *Invest Ophthalmol Vis Sci* 2007;48:4453.

(17)   Di Matteo F, Guareschi M, Riva I et al. Clinical Ability of HRT III and Stratus OCT Optic Nerve Head Algorithms in Detecting Glaucomatous Visual Field Defects. *Invest Ophthalmol Vis Sci* 2007;48:526.

(18)   Felcida V, Jain AK, Gupta A, Pilli S. Evaluation of Impression Smear in Diagosing Fungal Keratitis. *Invest Ophthalmol Vis Sci* 2007;48:2685.

(19)   Frazier M, Fuhr PSW, Marsh-Tootle WL. Evaluation of a Pilot Project to Screen Children's Vision in Nicaragua. *Invest Ophthalmol Vis Sci* 2007;48:4836.

(20)   Freitas D, Barbosa J, Regatieri C et al. Adenovirus Conjunctivitis Diagnosis Using RPS Adenodetector(R). *Invest Ophthalmol Vis Sci* 2007;48:392.

(21)   Gelman R, Jiang L, Du YE, Martinez-Perez ME, Flynn JT, Chiang MF. Plus Disease in Retinopathy of Prematurity: Comparison of Computer-Based and Expert Diagnosis. *Invest Ophthalmol Vis Sci* 2007;48:3100.

(22)   Goldbaum MH, Kozak I, Hao J et al. Machine Learning Classifiers Can Detect Subtle Field Defects in Eyes of HIV Subjects. *Invest Ophthalmol Vis Sci* 2007;48:704.

(23)   Graham AD, Lundgrin E, Lin MC. Comparison of Categorical and Continuous Scale Questionnaires in the Identification of Dry-Eye Contact Lens Wearers. *Invest Ophthalmol Vis Sci* 2007;48:411.

(24)   Grus FH, Storf J, Wuenschig D, Joachim SC, Pfeiffer N. Analysis of Antibody Patterns in Glaucoma Patients by Means of Protein Micro-Arrays. *Invest Ophthalmol Vis Sci* 2007;48:5616.

(25)   Gu J, Zhan X, Crabb JS et al. Oxidative Modifications as Biomarkers for AMD. *Invest Ophthalmol Vis Sci* 2007;48:34.

(26)   Gunvant P, Toth M, Chang F, Haine CL, Hollo G. Diagnostic Accuracy of Polarimetry Images With Atypical Retardance Pattern in Diagnosing Glaucoma. *Invest Ophthalmol Vis Sci* 2007;48:502.

(27)   Gutstein W, Sinclair SH. Ocular Abnormalities Observed During a Screening of Trisomy Downs Athletes. *Invest Ophthalmol Vis Sci* 2007;48:4854.

(28)   Hoffmann EM, Munkwitz S, Pfeiffer N, Woltmann A, Grus FH. Fourier Analysis of Ocular Pulse Amplitude Measurements in Glaucoma Patients and Healthy Subjects. *Invest Ophthalmol Vis Sci* 2007;48:1253.

(29)   Horn FK, Adler W, Laemmer R, Michelson G, Juenemann AG, Lausen B. Glaucoma Detection With FDT-Screening and HRT-Measurements Using Classification Algorithms in Training and Test Populations. *Invest Ophthalmol Vis Sci* 2007;48:1633.

(30)   Irkec MT, Turkish OSG. Reliability and Validity of Turkish Translation of the Ocular Surface Disease Index (OSDI) in Dry Eye Syndrome. *Invest Ophthalmol Vis Sci* 2007;48:408.

(31)   Jain S, Shah NN, Bowd C et al. Combining Structural and Functional Tests for Glaucoma Diagnosis via Nonparametric Bayesian Mixture Modeling. *Invest Ophthalmol Vis Sci* 2007;48:495.

(32)   James AC, Goh XL, Maddess T. Multifocal Dichoptic Pupillography in Glaucoma. *Invest Ophthalmol Vis Sci* 2007;48:1629.

(33)   Karcioglu ZA, Haik BG. Comparison of Cytopathologic and Histopathologic Diagnoses in Orbital Mass Lesions. *Invest Ophthalmol Vis Sci* 2007;48:3581.

(34)   Khanifar AA, Cousins SW. Comparison of Optical Coherence Tomography With Heidelberg Retinal Tomography Retinal Thickness Maps in the Detection of Macular Thickening in Diabetic Retinopathy and Age-Related Macular Degeneration. *Invest Ophthalmol Vis Sci* 2007;48:2602.

(35)   Kim D, Lee M, Jeoung J, Hwang SS, Park K, Kim T. Relationship Between Localized Retinal Nerve Fiber Layer Defects and Visual Field Abnormalities by Humphrey Matrix Frequency Doubling Technology Perimetry. *Invest Ophthalmol Vis Sci* 2007;48:1634.

(36)   Lee N, Laine A, Smith R, Barbazetto I, Busuoic M. Retinal Vessel Segmentation Using Multi-Scale Wavelet Frame Analysis. *Invest Ophthalmol Vis Sci* 2007;48:2756.

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(38)   Lu AT, Chopra V, Tan O, Schuman JS, Huang D, Advanced I. Magnification Correction in the Diagnosis of Glaucoma With Optical Coherence Tomography. *Invest Ophthalmol Vis Sci* 2007;48:508.

(39)   Maddess TL, James AC. Pupillographic Multifocal Visual Field Assessment for Glaucoma. *Invest Ophthalmol Vis Sci* 2007;48:1630.

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(41)   Mansberger SL, Nguyen H, Torres R et al. Patterns of Optic Disc Change in Early Glaucoma and Glaucoma Suspect Patients. *Invest Ophthalmol Vis Sci* 2007;48:3338.

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(55) Reus NJ, Lemij HG, European Optic Disc Assessment Trial g. Assessment of Stereoscopic Optic Disc Photographs in Glaucoma by European Ophthalmologists. *Invest Ophthalmol Vis Sci* 2007;48:1970.

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(67) Tu EY, Joslin CE, Shoff ME, Booton GC. Differential Rates of Isolation From Two Laboratories During an Ongoing Outbreak of Acanthamoeba Keratitis. *Invest Ophthalmol Vis Sci* 2007;48:753.

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(69) Villegas-Perez MP, Calzado-Hinojosa J, Ortiz-Gomariz A, Miralles de Imperial J. Overtreatment of Glaucoma: The Murcia Study. *Invest Ophthalmol Vis Sci* 2007;48:5585.

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(78)   Bellios N, Horn FK, Laemmer R, Dehne K, Juenemann AGM. Quantitative Perimetry of the Peripheral Nasal Visual Field in Glaucoma. *Invest Ophthalmol Vis Sci* 2008;49:1079.

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(95)   DelCourt C, Dartigues JF, Colin J et al. Use of a Simple Reading Test for the Detection of Case of Late Age-Related Maculopathy in Large Epidemiological Studies. *Invest Ophthalmol Vis Sci* 2008;49:599.

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