**Table S3. Excluded studies in the last step together with the first reason noted for exclusion**

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| Alawa KA, Nolan RP, Han E, Arboleda A, Durkee H, Sayed MS, Aguilar MC & Lee RK (2021). Low-cost, smartphone-based frequency doubling technology visual field testing using a head-mounted display. Br J Ophthalmol 105:440-444. | No diagnostic accuracy or performance (usability) data could be extracted |
| Kimura T, Matsumoto C & Nomoto H (2019). Comparison of head-mounted perimeter (imo®) and Humphrey Field Analyzer. Clin Ophthalmol 13:501-513. | No diagnostic accuracy or performance (usability) data could be extracted |
| Goukon H, Hirasawa K, Kasahara M, Matsumura K & Shoji N (2019). Comparison of Humphrey Field Analyzer and imo visual field test results in patients with glaucoma and pseudo-fixation loss. PLoS One 14:e0224711. | No diagnostic accuracy or performance (usability) data could be extracted |
| Tsapakis S, Papaconstantinou D, Diagourtas A, Droutsas K, Andreanos K, Moschos MM & Brouzas D (2017). Visual field examination method using virtual reality glasses compared with the Humphrey perimeter. Clin Ophthalmol 11:1431-1443. | No diagnostic accuracy or performance (usability) data could be extracted |
| Matsumoto C, Yamao S, Nomoto H, Takada S, Okuyama S, Kimura S, Yamanaka K, Aihara M & Shimomura Y(2016). Visual Field Testing with Head-Mounted Perimeter 'imo'. PLoS One 11:e0161974. | No diagnostic accuracy or performance (usability) data could be extracted |
| T Sircar, Z Pradhan, A Bopardikar, HL Rao, H Agrawal & VN Tiwari (2019). Development and Clinical Validation of GearVision - A Smartphone Based Head Mounted Perimeter. IEEE 16th India Council International Conference (INDICON), 1-4 | Diagnostic sensitivity and specificity not estimated |
| Anderson AJ, Bedggood PA, George Kong YX, Martin KR & Vingrys AJ (2017). Can Home Monitoring Allow Earlier Detection of Rapid Visual Field Progression in Glaucoma? Ophthalmology 124:1735-1742. | Computer simulation study |
| Jones L, Callaghan T, Campbell P, Jones PR, Taylor DJ, Asfaw DS, Edgar DF & Crabb DP (2021). Acceptability of a home-based visual field test (Eyecatcher) for glaucoma home monitoring: a qualitative study of patients' views and experiences. BMJ Open 11:e043130. | Qualitative study |
| Asakawa K& Shoji N(2019). Challenges to detect glaucomatous visual field loss with pupil perimetry. Clin Ophthalmol 13:1621-1625. Erratum in: Clin Ophthalmol 13:mdccxlix. | Evaluated pupil constriction, not measured retinal sensitivity |
| Rosen PN, Boer ER, Gracitelli CP, Abe RY, Diniz-Filho A, Marvasti AH & Medeiros FA (2015). A Portable Platform for Evaluation of Visual Performance in Glaucoma Patients. PLoS One 10:e0139426. | Evaluated vision performance and ability to predict risk of motor vehicle collisions |
| Nakanishi M, Wang YT, Jung TP, Zao JK, Chien YY, Diniz-Filho A, Daga FB, Lin YP, Wang Y & Medeiros FA (2017). Detecting Glaucoma With a Portable Brain-Computer Interface for Objective Assessment of Visual Function Loss. JAMA Ophthalmol 135:550-557. | Different index test studied |
| Tseng H (2020). Assessment of visual function with a portable brain-computer like interface. ClinicalTrials.gov. Id:NCT03760065 | Author response: Laboratory-based device that is custom-built |
| Erichev VP, Ermolaev AP, Antonov AA, Grigoryan GL &Kosova DV (2018). Novye vozmozhnosti issledovaniia polia zreniia (predvaritel'noe soobshchenie) [New visual field testing possibilities (a preliminary report)]. Vestn Oftalmol 134:66-72. Russian. | Author response: Perimeter intended for patients with impaired central vision |
| Eadie B (2019). Feasibility of visual field testing with a virtual field testing with a virtual reality headset. ClinicalTrials.gov Id. NCT 03748654 | Author response: Data expected to be published |
| Razeghinejad RM, Eye W. visuALL Field Analyzer (vFA) compared to Standard Automatic Perimetry. ClinicalTrials.gov. Id: NCT03804684 | No response from contact person |
| Mbekeani J(2019). Assessment of visual function in ophthalmic disorders using virtual field analysis. ClinicalTrials.gov Id: NCT 04110015 | No response from contact person |
| Hogg R (2020). Determining the clinical utility of using virtual reality headsets to assess visual function in those with glaucoma. ClinicalTrials.gov Id: NCT 04273438 | No response from contact person |