Table S1. Overview of studies comparing self-reports of vision and objective measures, in particular those taking into account cognitive and socio-demographic variables.

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| **Study and Population** | **Psychophysical Vision Measures** | **Self-reports of Vision**  | **Cognitive, Socio-demographic, Health variables**  | **Relationship between variables** |
| (Klein, 1999)Beaver Dam Eye Study (age 40+ ) | Distance (current and best corrected) and near visual acuity;Contrast sensitivity;Visual sensitivity (visual field) | General (excellent, very good, good, fair, poor)Specific domains: reading small and regular print; reading road signs; recognising people/objects across the street; night driving [all referred to corrected vision] | Socio-demographic: Age Sex | Correlation between psychophysical distance vision and general self report no report of sex or age difference in strength of correlation |
| (Eekhof, 2000)GP practices (age 75+) | Distance (corrected) and near visual acuity | Difficulty recognising a face; difficulty reading letters in newspaper | None  | 79% and 69% concordance respectively between objective and subjective measures |
| (Rubin, 2001) SEE Project (age 65-84) | Distance visual acuity; contrast sensitivity; glare; stereoacuity; visual field | Activity of Daily Vision Scale (also general question) | Socio-demographic: age, race, sex, education, Cognition: MMSE, Health: comorbidities, depression | Acuity and contrast were associated with highest odds of reporting poor visual function after controlling for all other variables.  |
| (Kempen, 1996)sub-sample of the Groningen Longitudinal Ageing study (age 57+) | Distance visual acuity, edge contrast sensitivity, disability glare, text reading and foveal light sensitivity | Use of vision (e.g. can you see approaching cars and bicycles in the street? Can you read numbers in a phonebook?) with multiple choice answers (‘(almost)always; often; sometimes; (almost)never’) | Socio-demographic: age, sex, educationCognition: short term memory test (visual presentation; immediate recall delayed recall and recognition) and the Adults Reading Test (NART)Health: anxiety, depression, personality, mastery/control | Independent predictors after controlling for vision measures: age, education,NART, anxiety  |
| (Hidalgo, 2009 )1387 residents of the city of Albacete (Spain) (age 65+) | Visual acuity | Visual Function Index questionnaire and general self report (from very good to very poor) | Socio-demographic: age, sex, education, marital status, social classCognition: Short Portable Mental Status QuestionnaireHealth: chronic diseases; activities of daily living dependence; medicine consumption; depression | Independent predictors of the Visual Function index:Visual acuity, self-reported vision (general question), age, being female, dependence in activities of daily living, cognition, depression |