| **Study, Year** | **Reference Standard** | **Target Vision Condition** | **Screening Test** | **Sensitivity (95% CI)** | **Specificity****(95% CI)** | **Positive Likelihood Ratio****(95% CI)** | **Negative Likelihood Ratio****(95% CI)** | **Diagnostic Odds Ratio****(95% CI)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Amsler grid*** |
| Ariyasu, 199674 | Ophthalmologic examination | Any ocular disease, excluding refractive error | Amsler grid | 0.20 (0.14-0.27) | 0.88 (0.80-0.94) | 1.65 (0.90-3.06) | 0.91 (0.82-1.01) | 1.82 (0.90-3.69) |
| ***Physical examination*** |
| McMurdo, 198878 | Ophthalmologic examination | A: CataractB: AMD | Positive finding on physical examination | A: 1.0 (9/9)B: 0.75 (3/4) | A: 1.0 (41/41)B: 1.0 (46/46) | Not calculated | Not calculated | Not calculated |
| ***Screening questions*** |
| Eekhof, 200075 | Snellen chart | Visual acuity ≤0.3 (about 20/60 on Snellen) | Trouble recognizing face by questionnaire | 0.60 (0.51-0.69) | 0.82 (0.79-0.84) | 3.23 (2.66-3.93) | 0.49 (0.40-0.61) | 6.56 (4.42-9.72) |
| Difficulty with low vision chart at reading distance | Trouble reading newspaper by questionnaire | 0.83 (0.76-0.88) | 0.67 (0.64-0.70) | 2.47 (2.20-2.78) | 0.26 (0.18-0.37) | 9.45 (6.08-14.7) |
| Hiller, 198376 | Snellen chart | A: Visual acuity ≤20/50B: Visual acuity ≤20/100 | Trouble seeing by questionnaire | A: 0.34 (0.28-0.41)B: 0.48 (0.32-0.63) | A: 0.84 (0.82-0.86)B: 0.82 (0.80-0.84) | A: 2.15 (1.72-2.69)B: 2.69 (1.94-3.74) | A: 0.78 (0.71-0.86)B: 0.64 (0.48-0.84) | A: 2.75 (2.00-3.78)B: 4.24 (2.33-7.72) |
| Teh, 200679 | Snellen chart | Visual acuity ≤20/40 | Problem with vision by questionnaire | 0.68 (0.58-0.78) | 0.43 (0.22-0.66) | 1.19 (0.80-1.77) | 0.74 (0.42-1.33) | 1.60 (0.62-4.16) |
| Wang, 199880 | Ophthalmologic examination | Any ocular disease | A: Problem with vision by questionnaireB: Problem with vision by questionnaire followed by visual acuity ≤20/40 | A: 0.90 (0.85-0.94)B: 0.57 (0.50-0.64) | A: 0.44 (0.37-0.51)B: 0.79 (0.73-0.84) | A: 1.60 (1.41-1.83)B: 2.72 (2.03-3.65) | A: 0.23 (0.15-0.36)B: 0.54 (0.46-0.65) | A: 6.88 (4.06-11.7)B: 5.00 (3.23-7.74) |
| ***Visual acuity testing*** |
| Ariyasu, 199674 | Ophthalmologic examination | Any ocular disease, excluding refractive error | Near visual acuity ≤20/30 | 0.83 (0.75-0.89) | 0.32 (0.23-0.44) | 1.23 (1.04-1.46) | 0.52 (0.32-0.86) | 2.34 (1.23-4.47) |
| ≤20/40 | 0.76 (0.68-0.83) | 0.49 (0.38-0.61) | 1.50 (1.19-1.90) | 0.49 (0.33-0.71) | 3.09 (1.71-5.55) |
| ≤20/60 | 0.60 (0.52-0.69) | 0.64 (0.53-0.74) | 1.67 (1.22-2.30) | 0.62 (0.47-0.81) | 2.70 (1.53-4.77) |
| Ariyasu, 199674 | Ophthalmologic examination | Any ocular disease, excluding refractive error | Presenting distance visual acuity ≤20/30 | 0.75 (0.69-0.81) | 0.51 (0.42-0.61) | 1.54 (1.26-1.90) | 0.48 (0.36-0.65) | 3.18 (1.96-5.18) |
| ≤20/40 | 0.68 (0.61-0.74) | 0.67 (0.58-0.76) | 2.08 (1.57-2.76) | 0.47 (0.37-0.60) | 4.40 (2.69-7.18) |
| ≤20/60 | 0.53 (0.46-0.60) | 0.86 (0.78-0.92) | 3.76 (2.34-6.03) | 0.54 (0.46-0.64) | 6.90 (3.82-12.5) |
| Ivers, 200177 | Ophthalmologic examination | A: Nuclear cataractB: Early AMDC: Any eye disease | Pinhole distance acuity ≤20/30 | A: 0.31 (0.28-0.34)B: 0.45 (0.37-0.53)C: 0.34 (0.31-0.37) | A: 0.89 (0.87-0.91)B: 0.79 (0.78-0.80)C: 0.86 (0.84-0.87) | A: 2.83 (2.35-3.40)B: 2.16 (1.80-2.59)C: 2.43 (2.14-2.76) | A: 0.78 (0.74-0.81)B: 0.69 (0.60-0.80)C: 0.77 (0.74-0.80) | A: 3.65 (2.93-4.55)B: 3.11 (2.26-4.30)C: 3.17 (2.69-3.73) |
| ≤20/40 | A: 0.13 (0.11-0.15)B: 0.21 (0.15-0.28)C: 0.15 (0.13-0.17) | A: 0.98 (0.97-0.99)B: 0.92 (0.91-0.93)C: 0.96 (0.95-0.97) | A 6.57 (4.29-10.1)B: 2.59 (1.87-3.58)C: 3.74 (2.95-4.73) | A: 0.89 (0.87-0.91)B: 0.86 (0.80-0.93)C: 0.89 (0.86-0.91) | A: 7.40 (4.78-11.5)B: 3.01 (2.01-4.49)C: 4.22 (3.27-5.45) |
| ≤20/60 | A: 0.08 (0.06-0.10)B: 0.10 (0.06-0.16)C: 0.09 (0.07-0.11) | A: 0.99 (0.98-1.00)B: 0.95 (0.94-0.96)C: 0.97 (0.96-0.98) | A: 8.07 (4.44-14.7)B: 2.01 (1.24-3.28)C: 2.98 (2.23-3.97) | A: 0.93 (0.91-0.95)B: 0.95 (0.90-1.00)C: 0.94 (0.92-0.96) | A: 8.69 (4.76-15.8)B: 2.13 (1.25-3.63)C: 3.17 (2.34-4.30) |
| Ivers, 200177 | Ophthalmologic examination | A: Nuclear cataractB: Early AMDC: Any eye disease | Presenting distance visual acuity ≤20/30 | A: 0.44 (0.41-0.47)B: 0.56 (0.48-0.64)C: 0.47 (0.44-0.50) | A: 0.77 (0.74-0.79)B: 0.66 (0.64-0.68)C: 0.74 (0.72-0.76) | A: 1.91 (1.69-2.16)B: 1.65 (1.42-1.90)C: 1.81 (1.65-1.98) | A: 0.73 (0.68-0.77)B: 0.67 (0.56-0.80)C: 0.72 (0.68-0.76) | A: 2.63 (2.20-3.15)B: 2.47 (1.79-3.40)C: 2.53 (2.19-2.92) |
| ≤20/40 | A: 0.25 (0.22-0.28)B: 0.34 (0.27-0.42)C: 0.27 (0.24-0.29) | A: 0.90 (0.88-0.92)B: 0.82 (0.81-0.83)C: 0.87 (0.86-0.88) | A: 2.50 (2.05-3.05)B: 1.89 (1.50-2.37)C: 2.07 (1.81-2.38) | A: 0.83 (0.80-0.87)B: 0.80 (0.72-0.90)C: 0.84 (0.81-0.87) | A: 3.00 (2.38-3.79)B: 2.34 (1.67-3.28)C: 2.47 (2.08-2.94) |
| ≤20/60 | A: 0.13 (0.11-0.15)B: 0.13 (0.08-0.20)C: 0.14 (0.12-0.16) | A: 0.96 (0.95-0.97)B: 0.92 (0.91-0.93)C: 0.94 (0.93-0.95) | A: 3.22 (2.35-4.41)B: 1.65 (1.09-2.49)C: 2.33 (1.89-2.88) | A: 0.91 (0.88-0.93)B: 0.94 (0.89-1.00)C: 0.92 (0.89-0.94) | A: 3.55 (2.54-4.96)B: 1.75 (1.09-2.80)C: 2.55 (2.02-3.21) |
| Ivers, 200177 | Ophthalmologic examination | A: Nuclear cataractB: Early AMDC: Any eye disease | Reading acuity ≤20/30 | A: 0.97 (0.96-0.98)B: 0.99 (0.96-1.00)C: 0.98 (0.97-0.99) | A: 0.03 (0.02-0.04)B: 0.03 (0.02-0.04)C: 0.03 (0.02-0.04) | A: 1.00 (0.99-1.01)B: 1.02 (1.00-1.04)C: 1.01 (1.00-1.02) | A: 1.00 (0.63-1.60)B: 0.42 (0.10-1.69)C: 0.66 (0.42-1.03) | A: 1.00 (0.62-1.61)B: 2.42 (0.65-8.98)C: 1.53 (0.97-2.42) |
| ≤20/40 | A: 0.88 (0.86-0.90)B: 0.95 (0.90-0.98)C: 0.89 (0.87-0.91) | A: 0.20 (0.18-0.22)B: 0.16 (0.15-0.17)C: 0.19 (0.18-0.21) | A: 1.10 (1.06-1.14)B: 1.13 (1.09-1.18)C: 1.10 (1.07-1.13) | A: 0.60 (0.49-0.73)B: 0.32 (0.16-0.62)C: 0.58 (0.49-0.68) | A: 1.84 (1.46-2.32)B: 3.59 (1.78-7.26)C: 1.90 (1.55-2.32) |
| ≤20/60 | A: 0.57 (0.54-0.60)B: 0.70 (0.62-0.77)C: 0.59 (0.56-0.62) | A: 0.59 (0.56-0.62)B: 0.53 (0.51-0.55)C: 0.59 (0.57-0.61) | A: 1.39 (1.28-1.52)B: 1.48 (1.33-1.65)C: 1.44 (1.35-1.54) | A: 0.73 (0.67-0.79)B: 0.57 (0.45-0.72)C: 0.70 (0.64-0.75) | A: 1.91 (1.62-2.26)B: 2.61 (1.85-3.68)C: 2.07 (1.80-2.38) |
| Wang, 199880 | Ophthalmologic examination | Any ocular disease | Presenting distance visual acuity ≤20/40 | 0.61 (0.54-0.68) | 0.72 (0.65-0.78) | 2.18 (1.70-2.79) | 0.54 (0.45-0.66) | 4.02 (2.65-6.09) |
| Woods, 199881 | Ophthalmologic examination | Any ocular disease, excluding refractive error | Near visual acuity ≤20/30 | 0.77 (0.74-0.80) | 0.68 (0.63-0.73) | 2.41 (2.08-2.80) | 0.34 (0.30-0.38) | 7.15 (5.52-9.26) |
| Woods, 199881 | Ophthalmologic examination | Any ocular disease, excluding refractive error | Presenting distance visual acuity ≤20/30 | 0.74 (0.71-0.77) | 0.87 (0.83-0.90) | 5.66 (4.36-7.34) | 0.30 (0.27-0.33) | 18.9 (13.6-26.3) |

**Abbreviation:** AMD = age-related macular degeneration.