**SUPPLEMENTARY DIGITAL FILES**

**Supplementary File 1: Electronic databases search strategy**

**Supplementary File 1.1: MEDLINE ALL (Ovid) search strategy**

1. exp Refractive Errors/ or Refraction, Ocular/ or Visual Acuity/
2. exp Vision Disorders/
3. exp Hyperopia/
4. Long-sighted\*.mp.
5. Farsighted\*.mp.
6. Hypermetropia.mp.
7. exp Vision Screening/
8. Eye screening.mp.
9. exp Eyeglasses/
10. Spectacle correction.mp.
11. Cycloplegic refraction.mp.
12. Plus lens test.mp.
13. Fogging lens.mp.
14. Simulated hyperopia.mp.
15. exp Accommodation, Ocular/
16. exp Vision, Binocular/
17. exp Schools/
18. exp Nurseries, Infant/
19. exp Child/
20. exp Minors/
21. exp Young Adult/ or exp Adolescent/ or exp Child, Preschool/
22. Juvenile.mp.
23. exp Infant/
24. exp Student Dropouts/
25. exp Students/
26. exp Literacy/
27. Test scores.mp.
28. exp Achievement/ or exp Educational Measurement/ or exp Academic Performance/ or exp Educational Status/
29. exp Academic Success/
30. exp Intelligence/ or exp Intelligence Tests/
31. Attainment.mp.
32. School Performance.mp.
33. Educational Outcomes.mp.
34. Grades.mp.
35. exp Reading/
36. exp Dyslexia, Acquired/ or exp Dyslexia/
37. Slow read\*.mp.
38. exp Comprehension/ or Reading difficulties.mp.
39. Proficiency.mp.
40. exp Learning/
41. Scholastic.mp.
42. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
43. 17 or 18
44. 19 or 20 or 21 or 22 or 23 or 24 or 25
45. 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41
46. 42 and 43 and 44 and 45

**Supplementary File 1.2: EMBASE (Ovid) search strategy**

1. exp refraction error/
2. exp eye refraction/
3. exp visual acuity/
4. exp visual disorder/
5. hyperopia.mp. or exp hypermetropia/
6. Long-sighted\*.mp.
7. Farsighted\*.mp.
8. exp vision test/
9. Eye screening.mp.
10. exp spectacles/
11. Spectacle correction.mp.
12. Cycloplegic refraction.mp.
13. Plus lens test.mp.
14. Fogging lens.mp.
15. Simulated hyperopia.mp.
16. exp accommodation/
17. exp binocular vision/
18. exp primary school/ or exp middle school/ or exp school/ or exp nursery school/
19. exp preschool child/
20. exp child/
21. exp "minor (person)"/
22. exp young adult/
23. exp adolescent/
24. exp juvenile/
25. exp infant/
26. exp literacy/
27. Test scores.mp.
28. exp academic achievement/
29. exp achievement/ or exp achievement test/
30. exp educational status/ or exp education/ or Educational Outcomes.mp.
31. academic performance.mp.
32. exp academic success/
33. exp intelligence/ or exp intelligence test/
34. Attainment.mp.
35. School Performance.mp.
36. Grades.mp.
37. Reading Difficulties.mp. or exp dyslexia/
38. Reading Disorders.mp. or exp dyslexia/
39. exp reading/ or Slow read\*.mp.
40. exp comprehension/
41. exp learning/
42. Proficiency.mp.
43. Scholastic.mp.
44. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or

17

1. 19 or 20 or 21 or 22 or 23 or 24 or 25
2. 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or

40 or 41 or 42 or 43

1. 18 and 44 and 45 and 46

**Supplementary File 1.3: APA PsycINFO search strategy**

1. exp Refraction Errors/
2. exp Visual Acuity/
3. exp Vision Disorders/
4. Hyperopia.mp.
5. Long-sighted\*.mp.
6. Farsighted\*.mp.
7. Hypermetropia.mp.
8. Refraction.mp.
9. exp Vision Disorders/ or exp Binocular Vision/ or exp Vision/
10. exp Screening/ or Eye screening.mp. or Vision Screening.mp.
11. Eyeglasses.mp.
12. Spectacle correction.mp.
13. Cycloplegic refraction.mp.
14. Plus lens test.mp.
15. Fogging lens.mp.
16. Simulated hyperopia.mp.
17. exp Ocular Accommodation/
18. exp Junior High Schools/ or exp High Schools/ or exp Middle Schools/ or exp Nursery Schools/ or exp Schools/ or exp Elementary Schools/
19. exp Preschool Education/
20. exp School Dropouts/
21. exp Literacy/
22. exp Dyslexia/
23. exp Cognitive Ability/
24. exp Academic Achievement/
25. exp Performance/
26. exp College Academic Achievement/
27. exp Academic Achievement Prediction/
28. exp Education/
29. exp Educational Measurement/
30. exp Educational Attainment Level/
31. exp School Attendance/
32. exp Intelligence/ or exp Intelligence Measures/
33. exp Mathematics Achievement/
34. exp Achievement Potential/
35. exp Comprehension Tests/ or exp Reading Comprehension/ or exp Comprehension/
36. exp Reading Disabilities/ or exp Reading Skills/ or exp Reading Achievement/ or exp Reading Education/ or exp Reading Measures/ or exp Reading Ability/ or exp Reading Speed/ or exp Reading/ or exp Reading Education/ or exp Oral Reading/
37. exp Grade Level/
38. exp Curriculum/
39. exp Verbal Fluency/
40. exp Reading Readiness/
41. Slow read\*.mp.
42. exp Language Proficiency/
43. exp Cognitive Ability/ or exp Aptitude Measures/ or Scholastic.mp. or exp Academic Aptitude/
44. exp Test Scores/
45. exp Classrooms/
46. Child\*.mp.
47. Minors.mp.
48. Adolescen\*.mp.
49. Juvenile.mp.
50. exp Junior High School Students/ or exp High School Students/ or exp Community College Students/ or exp Kindergarten Students/ or exp Middle School Students/ or exp Primary School Students/ or exp Intermediate School Students/ or exp College Students/ or exp Students/ or exp Junior College Students/ or exp Nursery School Students/ or exp Preschool Students/ or exp Elementary School Students/
51. Preschool\*.mp.
52. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
53. 18 or 19 or 20
54. 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45
55. 46 or 47 or 48 or 49 or 50 or 51
56. 52 and 53 and 54 and 55

**Supplementary File 1.4: CINAHL search strategy**

1. (MH "Hyperopia") OR (MH "Refractive Errors+") OR "longsighted\*" OR (MH "Vision Disorders") OR (MH "Vision Screening") OR (MH "Vision Tests") OR (MH "Eyeglasses") OR (MH "Visual Acuity") OR (MH "Refraction, Ocular") OR "simulated hyperopia" OR (MH "Depth Perception")
2. (MH "Academic Performance+") OR (MH "Academic Failure") OR (MH "Educational Measurement+") OR (MH "Literacy") OR (MH "Reading Disorders") OR (MH "Reading") OR (MH "Dyslexia") OR (MH "Learning Disorders+") OR (MH "Learning") OR (MH "Goal Attainment") OR (MH "Achievement Tests") OR (MH "Achievement") OR (MH "Educational Status") OR (MH "Outcomes of Education")
3. (MH "Students, High School") OR (MH "Learning Environment+") OR (MH "Students, Middle School") OR (MH "Student Dropouts") OR (MH "Students, Elementary") OR (MH "High School Graduates") OR (MH "Schools, Middle") OR (MH "Students, College") OR (MH "Student Attitudes") OR (MH "Schools, Secondary") OR (MH "Schools, Elementary") OR (MH "Schools+") OR (MH "Students+")
4. S1 AND S2 AND S3

**Supplementary File 1.5: PubMed search strategy**

((("Visual Acuity"[MeSH Terms] OR "Refractive Errors"[MeSH Terms] OR "Vision Disorders"[MeSH Terms] OR "vision, binocular"[MeSH Terms] OR "Hyperopia"[MeSH Terms] OR "Vision Screening"[MeSH Terms] OR "Eyeglasses"[MeSH Terms]) AND "long sighted\*"[Title/Abstract]) OR "farsighted\*"[Title/Abstract] OR "Hypermetropia"[Title/Abstract] OR "Eye screening"[Title/Abstract] OR "Spectacle correction"[Title/Abstract] OR "Cycloplegic refraction"[Title/Abstract] OR "Plus lens test"[Title/Abstract] OR "Fogging lens"[Title/Abstract] OR "Simulated hyperopia"[Title/Abstract]) AND ("Educational Status"[MeSH Terms] OR "Language Tests"[MeSH Terms] OR "dyslexia, acquired"[MeSH Terms] OR "Literacy"[Title/Abstract] OR "Test scores"[Title/Abstract] OR "academic performance\*"[Title/Abstract] OR "Achievement"[Title/Abstract] OR "Attainment"[Title/Abstract] OR "School Performance"[Title/Abstract] OR "educational outcome\*"[Title/Abstract] OR "Educational Status"[Title/Abstract] OR "grade\*"[Title/Abstract] OR "Reading"[Title/Abstract] OR "slow read\*"[Title/Abstract] OR "Reading difficulties"[Title/Abstract] OR "Comprehension"[Title/Abstract] OR "Proficiency"[Title/Abstract] OR "Scholastic"[Title/Abstract] OR "Learning"[Title/Abstract]) AND ("Students"[MeSH Terms] OR "child, preschool"[MeSH Terms] OR "Adolescent"[MeSH Terms] OR "Infant"[Title/Abstract] OR "Juvenile"[Title/Abstract] OR "Minors"[Title/Abstract] OR "Young adult"[Title/Abstract] OR "Child"[MeSH Terms])

**Supplementary File 1.6: Web of Science search strategy**

1. TS=("refractive error\*" OR "visual acuity\*" OR "binocular vision disorder\*" OR hyperop\* OR hypermetrop\* OR long-sighted\* OR farsighted\* OR "Vision Screening" OR Eyeglasses OR "Eye screening" OR "Spectacle correction" OR "Cycloplegic refraction" OR "Plus lens test" OR "Fogging lens" OR "Simulated hyperopia")
2. TS=("Educational Status" OR "Language Tests" OR "Dyslexia, Acquired"OR Literacy OR "Test scores" OR "Academic Performance\*" OR Achievement OR Attainment OR "School Performance" OR "Educational Outcome\*" OR "Educational Status" OR Grade\* OR Reading OR "Slow read\*" OR "Reading difficulties" OR Comprehension OR Proficiency OR Scholastic OR Learning)
3. TS=(Students OR Child\* OR Preschool\* OR Adolescen\* OR Infant\* OR juvenile)
4. #1 AND #2 AND #3

**Supplementary File 1.7: CENTRAL search strategy**

1.("refractive error"):ti,ab,kw OR (hyperopia):ti,ab,kw OR (long-sighted\*):ti,ab,kw OR (far-sighted\*):ti,ab,kw OR (vision disorder\*):ti,ab,kw (Word variations have been searched)

2.(academic performance):ti,ab,kw OR (educational outcome\*):ti,ab,kw OR (academic achievement):ti,ab,kw OR (attainment):ti,ab,kw OR (literacy):ti,ab,kw

3.student):ti,ab,kw OR ("Child"):ti,ab,kw OR ("preschooler"):ti,ab,kw OR (adolescent):ti,ab,kw OR (infant):ti,ab,kw

4.#1 and #2 and #3