| First Author, Year  Study Name  Screening Test | Test-Retest Reliability | Interrater Reliability | Comments or Other Measures of Reliability |
| --- | --- | --- | --- |
| Huang et al, 201388  VIP Phase II  Retinomax; overall sample | NR | Mean (SD) [95% limits of agreement] of difference (Lay to nurse)  Sphere: -0.04 (0.81) [-1.63 to 1.54]  Cylinder: 0.00 (0.26) [-0.52 to 0.51]  Spherical equivalent: -0.04 (0.82) [-1.65 to 1.56] | NA |
| Huang et al, 201388  VIP Phase II  Retinomax; by age | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *3 years old (N=722)*  Sphere: -0.08 (-1.78 to 1.61)  Cylinder: 0.01 (-0.47 to 0.50)  Spherical equivalent: -0.08 (-1.80 to 1.64)  *4 years old (N=1569)*  Sphere: -0.03 (-1.58 to 1.53)  Cylinder: 0.01 (-0.53 to 0.54)  Spherical equivalent: -0.02 (-1.60 to 1.55)  *5 years old (N=558)*  Sphere: -0.03 (-1.54 to 1.48)  Cylinder: -0.04 (-0.52 to 0.43)  Spherical equivalent: -0.05 (-1.58 to 1.48) | NA |
| Huang et al, 201388  VIP Phase II  Retinomax; by presence of SRE | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *Yes, SRE present (N=737)*  Sphere: -0.04 (-1.93 to 1.84)  Cylinder: 0.04 (-0.57 to 0.66)  Spherical equivalent: -0.02 (-1.93 to 1.89)  *No, SRE not present (N=2112)*  Sphere: -0.04 (-1.51 to 1.42)  Cylinder: -0.02 (-0.48 to 0.45)  Spherical equivalent: -0.05 (-1.54 to 1.44) | NA |
| Huang et al, 201388  VIP Phase II  Retinomax; by spherical equivalent from gold standard exams | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *≤ -0.5 D (N=125)*  Sphere: 0.11 (-1.90 to 2.11)  Cylinder: 0.06 (-0.77 to 0.90)  Spherical equivalent: 0.14 (-1.90 to 2.17)  *>-0.5, ≤ 1 D (N=1104)*  Sphere: -0.03 (-1.46 to 1.40)  Cylinder: -0.01 (-0.56 to 0.53)  Spherical equivalent: -0.04 (-1.49 to 1.41)  *>1, ≤ 2 D (N=1057)*  Sphere: -0.04 (-1.65 to 1.57)  Cylinder: 0.00 (-0.51 to 0.51)  Spherical equivalent: -0.04 (-1.67 to 1.59)  *>2 D (N=563)*  Sphere: -0.10 (-2.25 to 2.05)  Cylinder: 0.01 (-0.54 to 0.55)  Spherical equivalent: -0.10 (-2.28 to 2.09) | NA |
| Huang et al, 201388  VIP Phase II  SureSight; overall sample | NR | Mean (SD) [95% limits of agreement] of difference (Lay to nurse)  Sphere: 0.05 (0.78) [-1.48 to 1.58]  Cylinder: 0.01 (0.30) [-0.58 to 0.60]  Spherical equivalent: 0.06 (0.77) [-1.45 to 1.57] | NA |
| Huang et al, 201388  VIP Phase II  SureSight; by age | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *3 years old (N=697)*  Sphere: 0.07 (-1.57 to 1.71)  Cylinder: 0.03 (-0.55 to 0.61)  Spherical equivalent: 0.08 (-1.54 to 1.70)  *4 years old (N=1503)*  Sphere: 0.05 (-1.47 to 1.57)  Cylinder: 0.005 (-0.62 to 0.63)  Spherical equivalent: 0.05 (-1.45 to 1.55)  *5 years old (N=529)*  Sphere: 0.04 (-1.36 to 1.44)  Cylinder: 0.004 (-0.52 to 0.52)  Spherical equivalent: 0.04 (-1.34 to 1.42) | NA |
| Huang et al, 201388  VIP Phase II  SureSight; by presence of SRE | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *Yes, SRE present (N=641)*  Sphere: 0.05 (-1.51 to 1.61)  Cylinder: 0.01 (-0.67 to 0.70)  Spherical equivalent: 0.05 (-1.51 to 1.61)  *No, SRE not present (N=2,088)*  Sphere: 0.05 (-1.46 to 1.57)  Cylinder: 0.01 (-0.55 to 0.57)  Spherical equivalent: 0.06 (-1.43 to 1.55) | NA |
| Huang et al, 201388  VIP Phase II  SureSight; by spherical equivalent from gold standard exams | NR | Mean (95% limits of agreement) of difference (Lay to nurse)  *≤ -0.5 D (N=108)*  Sphere: -0.16 (-1.62 to 1.29)  Cylinder: 0.02 (-0.91 to 0.95)  Spherical equivalent: -0.15 (-1.79 to 1.49)  *>-0.5, ≤ 1 D (N=1,073)*  Sphere: 0.06 (-1.37 to 1.49)  Cylinder: 0.02 (-0.60 to 0.63)  Spherical equivalent: 0.07 (-1.32 to 1.45)  *>1, ≤ 2 D (N=1,036)*  Sphere: 0.05 (-1.67 to 1.76)  Cylinder: 0.01 (-0.61 to 0.63)  Spherical equivalent: 0.05 (-1.64 to 1.74)  *>2 D (N=512)*  Sphere: 0.10 (-1.73 to 1.94)  Cylinder: -0.01 (-0.63 to 0.61)  Spherical equivalent: 0.10 (-1.72 to 1.92) | NA |

Abbreviations: D=diopter; NA=not applicable; NR=not reported; SD=standard deviation; SRE=significant refractive error; VIP=Vision In Preschoolers.