

Title	A Correlation between Visual Acuity Measurements Obtained with the LEA Visual Acuity Chart and the Gold Standard Early Treatment of Diabetic Retinopathy Study (ETDRS) Chart for 3 to 7 Years Old Amblyopic and Normal Children
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Abstract	Introduction: This study is a comparison between the visual acuity (VA) measurements with the preliterate LogMAR LEA symbols VA chart (LH) and the standardized Early Treatments for Diabetic Retinopathy Study VA chart (ETDRS) in young children to help further define reported validity limitations of the former. Methods: 40 healthy and visually normal children age 40 to 83 months were recruited in a cross-sectional prospective study with all participants being required of being able to recognize the 10 Sloan letters. Under a standardized and controlled clinical setting, VA was measured monocularly and randomly using both the LEA and the ETDRS charts. Results: VA scores of the two charts were highly correlated with a clinically insignificant over estimation of 0.04 LogMAR in the LEA chart scores regardless of the subjects' age or gender. The two charts were in total agreements in the detection of subjects' inter-ocular difference. Conclusions: This study indicates that the preliterate LEA chart can provide a valid alternative to the ETDRS chart among normal preschoolers.