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Retinopathy of prematurity status during screening: invisible with binocular indirect ophthalmoscopy but established with Optos ultra-wide-field retinal imaging

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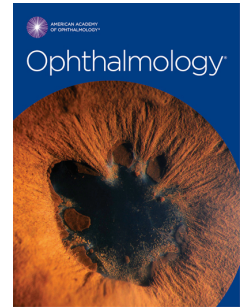
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Retinopathy of prematurity status during screening: invisible with binocular indirect ophthalmoscopy but established with Optos ultra-wide-field retinal imaging.

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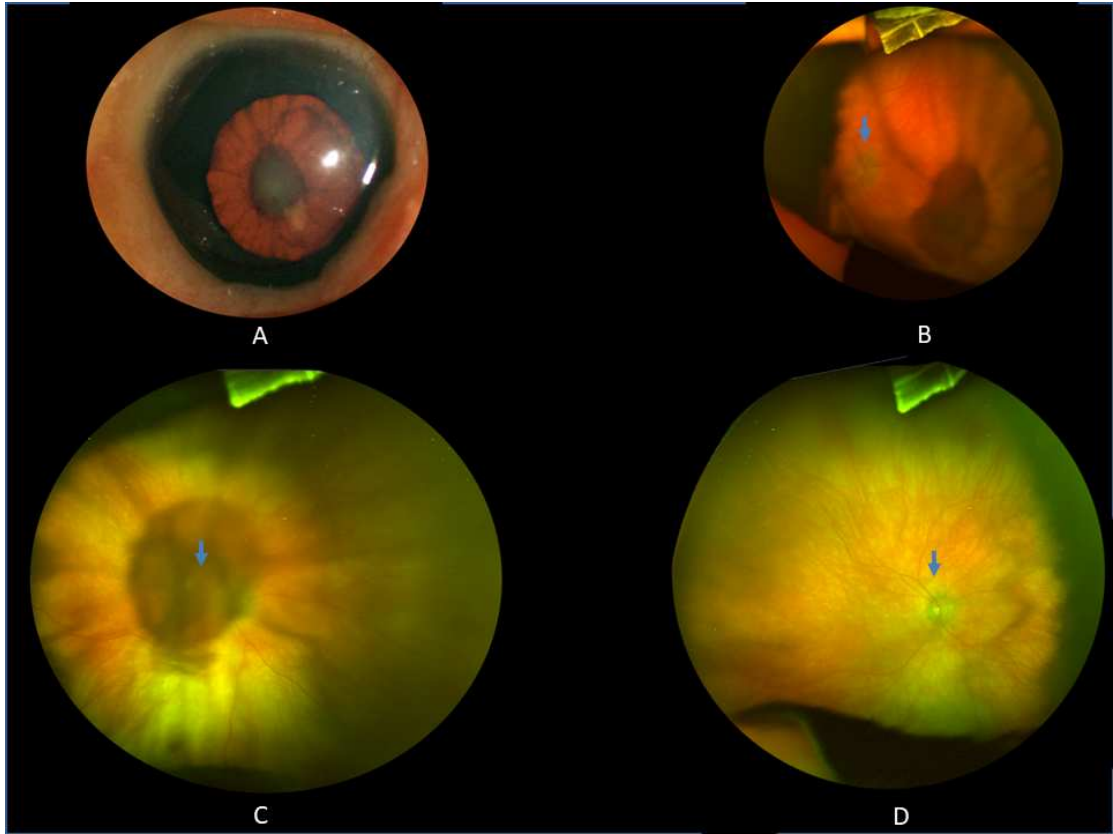
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Legend

Indirect ophthalmoscopy by an expert failed to visualise the retina because of lens opacity and tunica vasculosa lentis(A), in a baby aged 34 weeks born at 27 weeks weighing 1000grams. The Optos California (Dunfermline, Scotland) has a 0.3mm scanning laser beam that is scattered less than achromatic light and has a virtual focal point behind anterior surface of the lens. The field of view increased as the flying baby technique approximated the eye to the camera(B). Cataract artefact blocked the disc(blue arrow, D) and when the scanning beam entered the eye in an adjacent clear zone(E), retinopathy of prematurity was absent.



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