

**Figure S1**

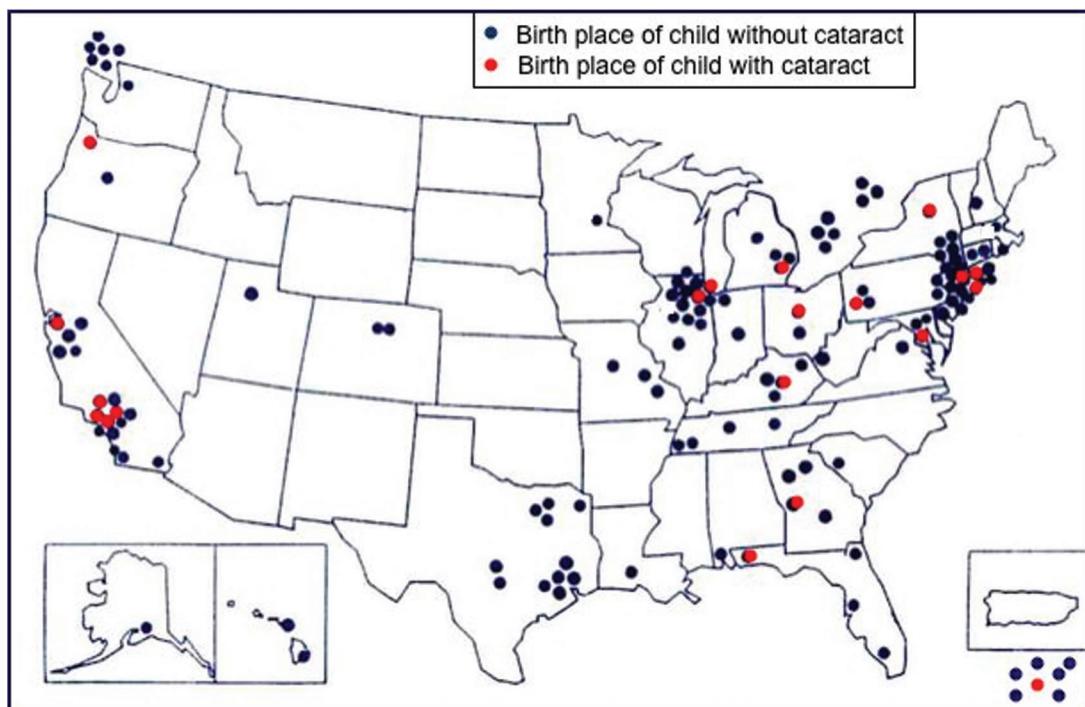


Figure S2

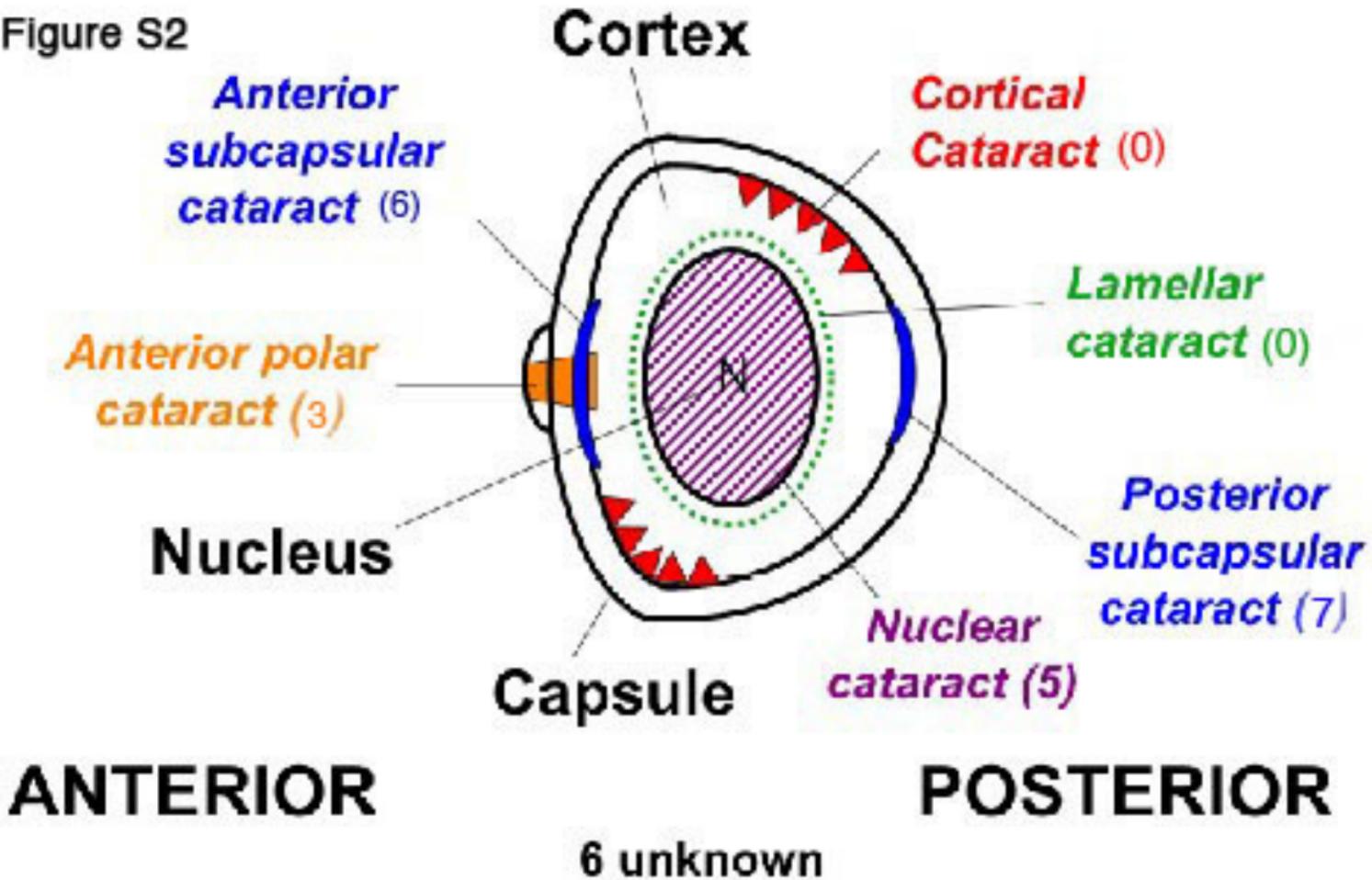


Figure S3

## Complexity of cataracts (n=27)

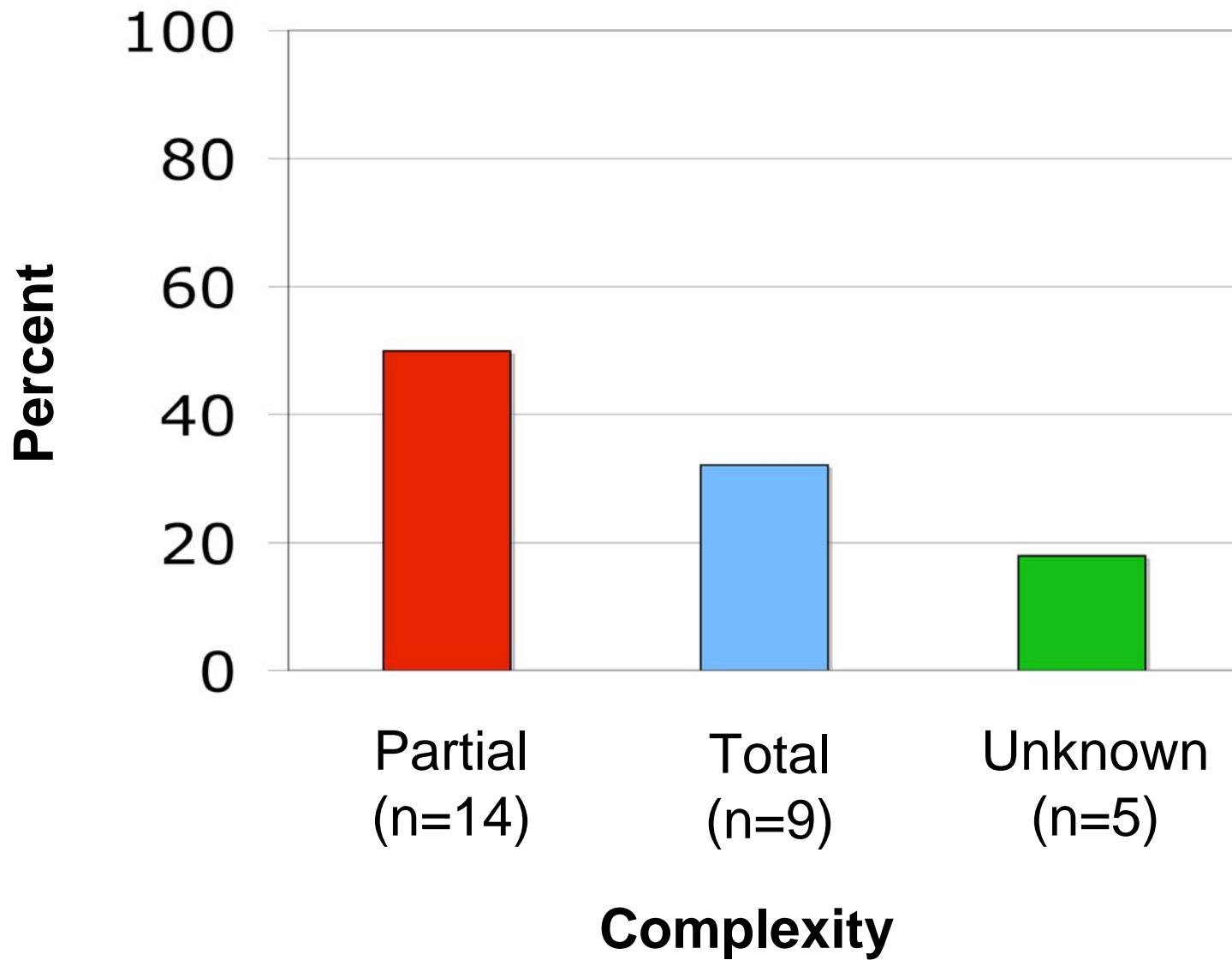
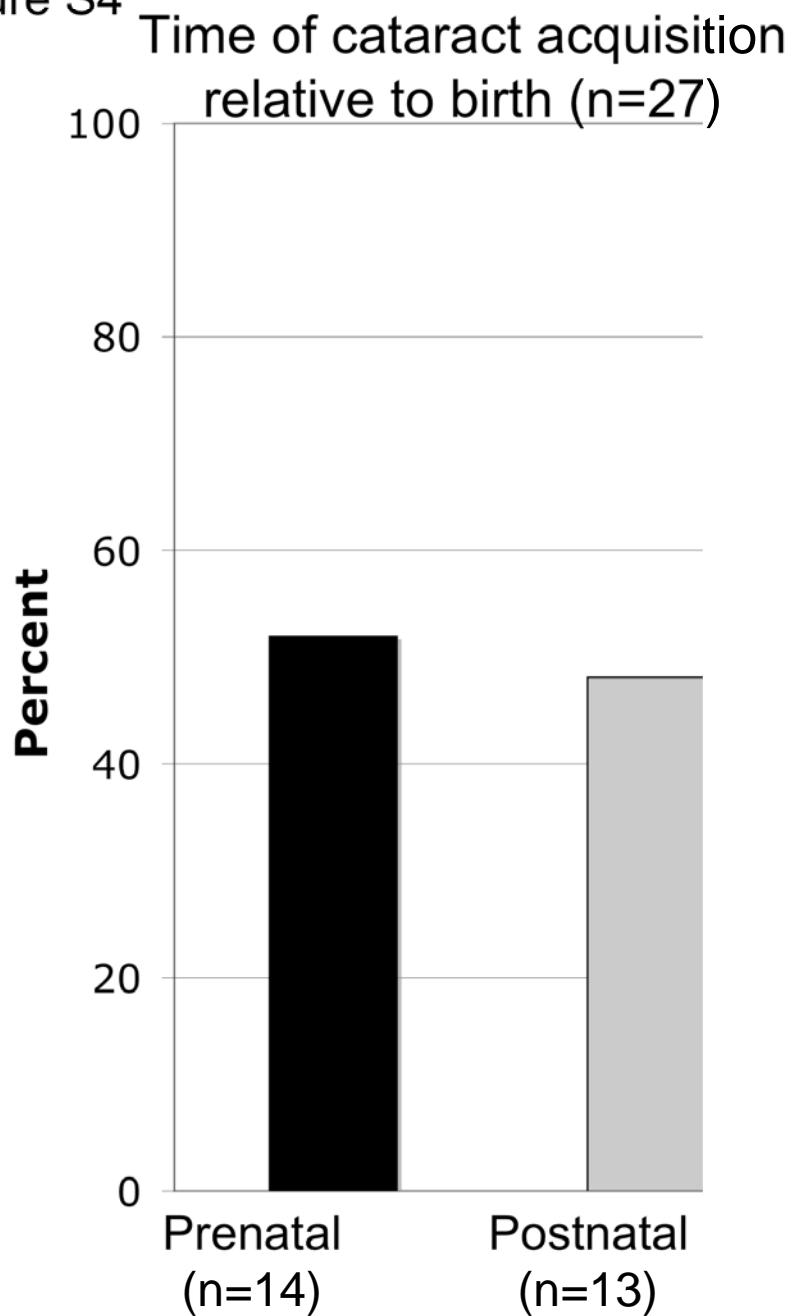


Figure S4

A.



B.

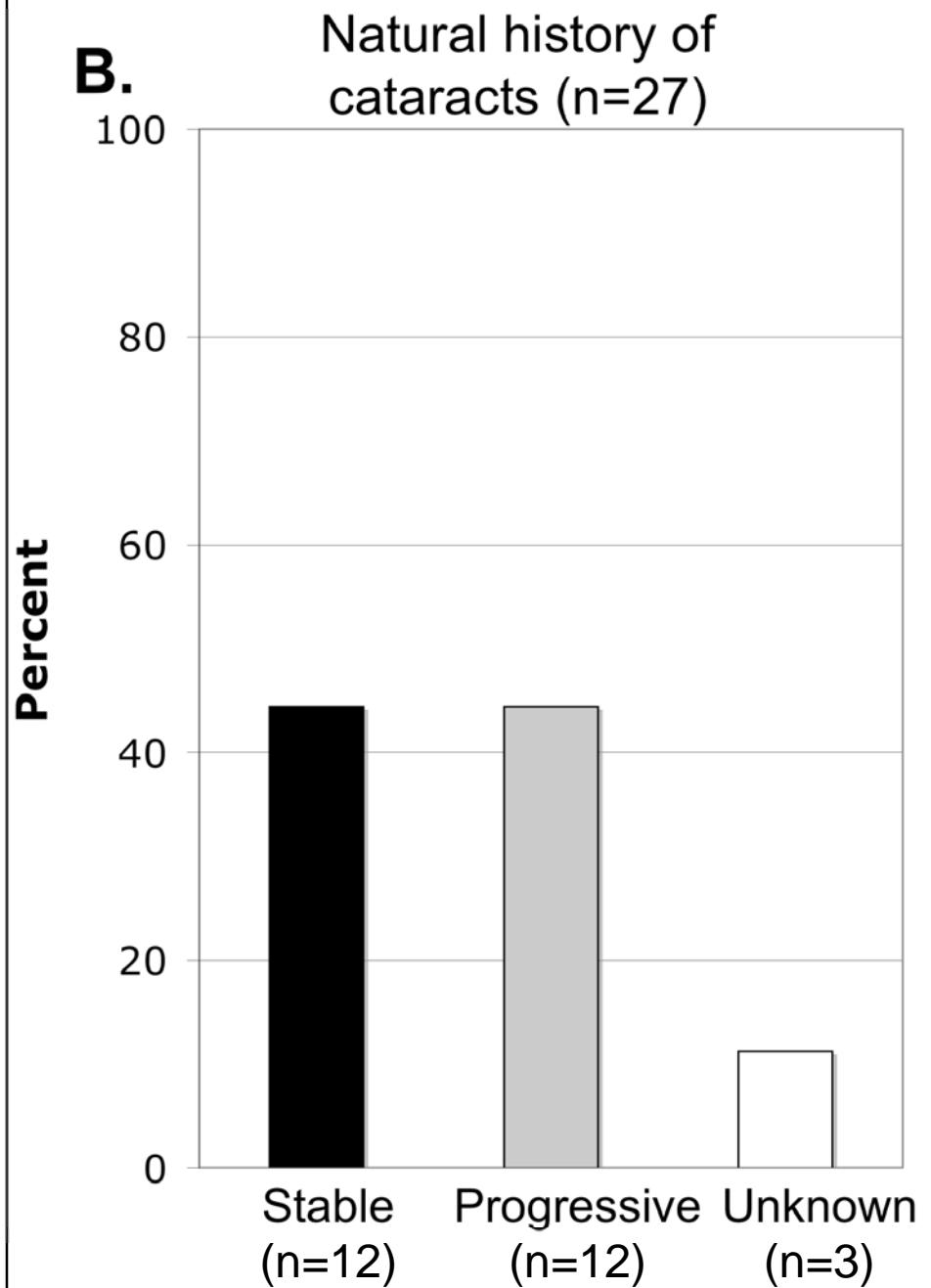
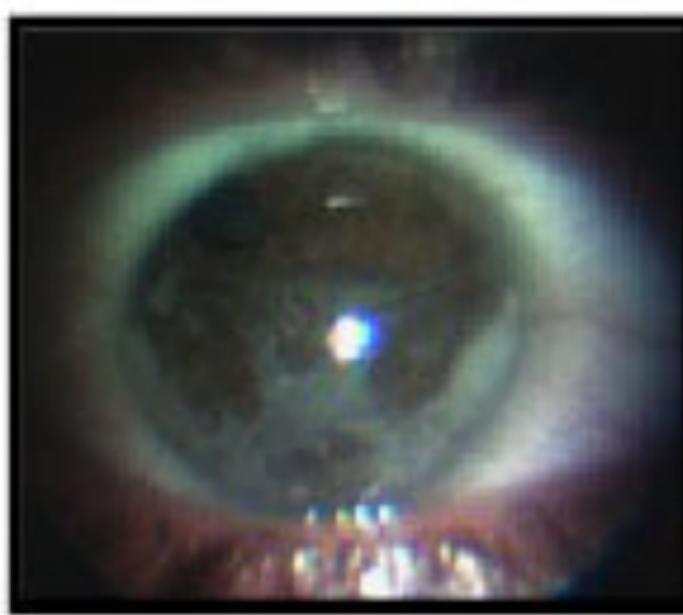


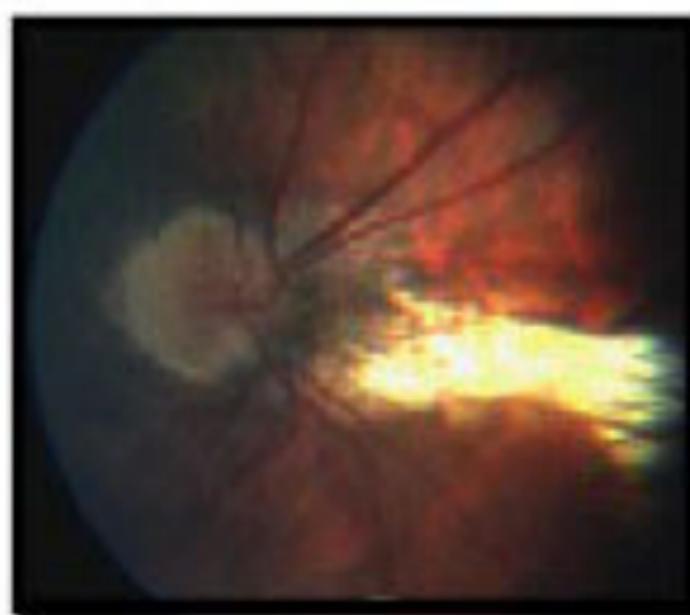
Figure S5

	<b>Right Eye</b>	<b>Left Eye</b>
Birth	<ul style="list-style-type: none"> <li>Fixes and follows</li> <li>Microphthalmia, Microcornea</li> <li>Posterior synechiae with bubbly lens opacities</li> <li>Large macular chorioretinal scar</li> <li>Three large peripheral chorioretinal scars</li> </ul>	<ul style="list-style-type: none"> <li>Fixes and follows</li> <li>Posterior synechiae</li> <li>Dragging of the macula with large chorioretinal scar</li> </ul>
2 mo	<ul style="list-style-type: none"> <li>No fixing or following</li> <li>Total cataract</li> <li>Poor view of the optic nerve and retina due to vitritis and total cataract</li> <li>No RD or PHPV</li> <li>Cataract extraction recommended</li> </ul>	<ul style="list-style-type: none"> <li>Fixes and follows</li> </ul>
2.5 mo	<ul style="list-style-type: none"> <li>Extracapsular cataract extraction with anterior capsulotomy followed by a posterior capsulotomy and anterior vitrectomy</li> </ul>	<ul style="list-style-type: none"> <li>Fixes and follows</li> </ul>
1 yr	<ul style="list-style-type: none"> <li>No fixing or following without contact lens.</li> <li>Aphakic</li> <li><b>Esotropia of 50 prism diopters</b></li> <li>Peripheral iridectomy, second surgery.</li> <li>Large chorioretinal macular and peripheral scars.</li> </ul>	<ul style="list-style-type: none"> <li>Fixes and follows</li> <li>Reaches for objects.</li> <li>Pendular nystagmus</li> <li>Dragged macula and vessels with macular chorioretinal scar</li> </ul>
3.5 yr	<ul style="list-style-type: none"> <li>Microphthalmia, Microcornea</li> <li>Pendular nystagmus</li> <li><b>Esotropia of 25 prism diopters</b></li> </ul>	<ul style="list-style-type: none"> <li>Extensive chorioretinal scar in macula, dragged macula and vessels.</li> </ul>
5 yr	<ul style="list-style-type: none"> <li>Fixes and follows</li> <li><b>Esotropia of 20 prism diopters</b></li> <li>Corneal diameter 9mm x 9mm</li> <li>Cycloplegic refraction +17.50 sphere</li> <li>Persistent pendular nystagmus</li> <li>Optic nerve normal</li> <li>Large chorioretinal scar in the macula and 3 scars in the peripheral retina</li> </ul>	<ul style="list-style-type: none"> <li>Fixes and follows</li> <li>Corneal diameter 11mm x 10.5mm</li> <li>-4.00 + 2.00 x 90 degrees</li> <li>Optic nerve normal</li> <li>Extensive chorioretinal scar extending from the optic nerve through the macula.</li> </ul>
11 yr	<ul style="list-style-type: none"> <li>Corrected visual acuity at distance is 20/300</li> <li>Corrected visual acuity at near is 20/400</li> <li><b>Esotropia of 18 prism diopters</b></li> <li>Intraocular pressure of 20 mm Hg on 3 topical medications</li> <li>Microcornea and microphthalmia</li> <li>Band keratopath, aphakia, large chorioretinal scars in the macula and 3 scars in peripheral retina.</li> </ul>	<ul style="list-style-type: none"> <li>Corrected visual acuity at distance is 20/400</li> <li>Corrected visual acuity at near is 20/250</li> <li>Slight decrease in abduction</li> <li>Intraocular pressure of 18 mm Hg</li> <li>Cornea is clear,</li> <li>Extensive chorioretinal scar extending from the optic nerve through the macula, dragged macula and vessels.</li> </ul>

**Figure S6**



**Right Eye**



**Left Eye**

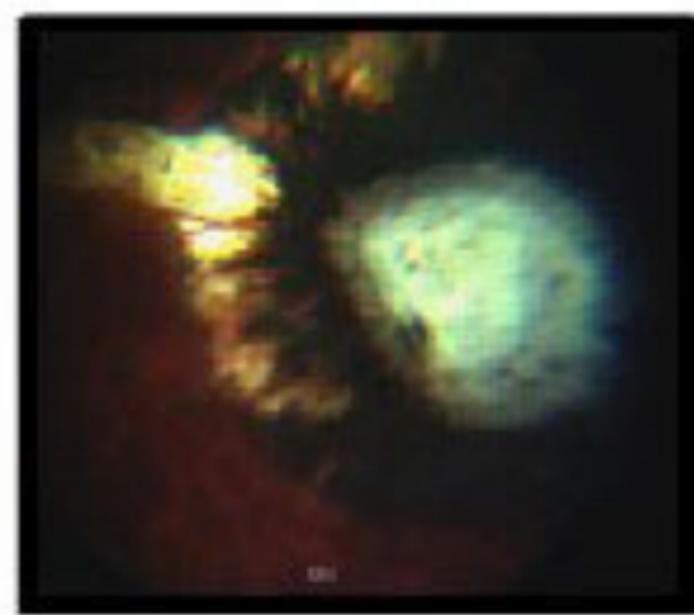
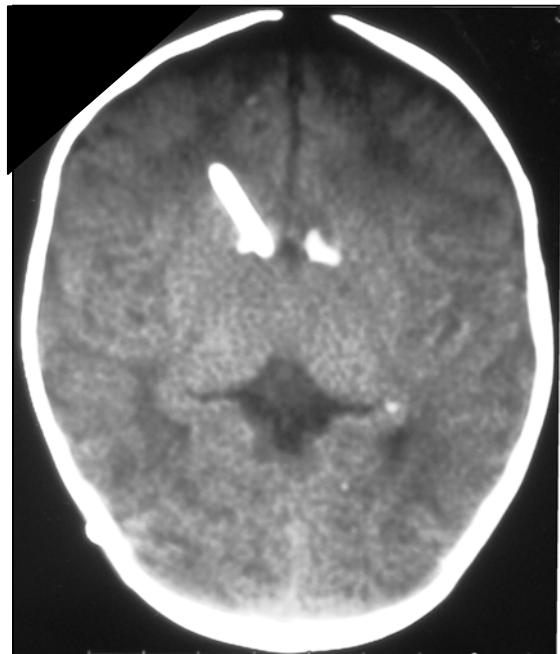
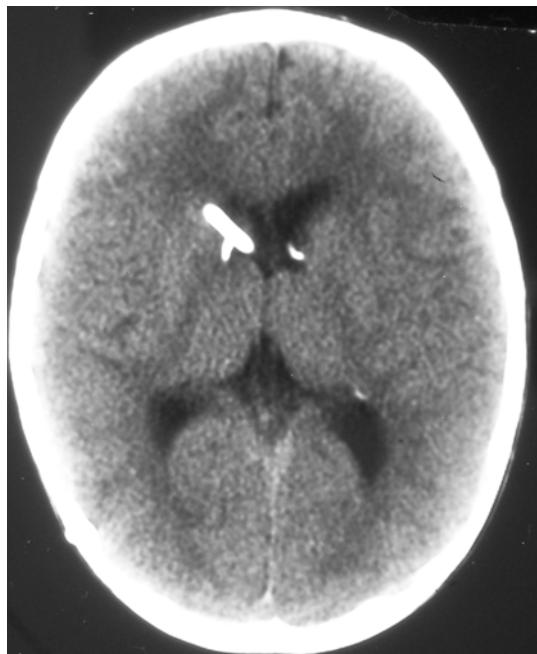
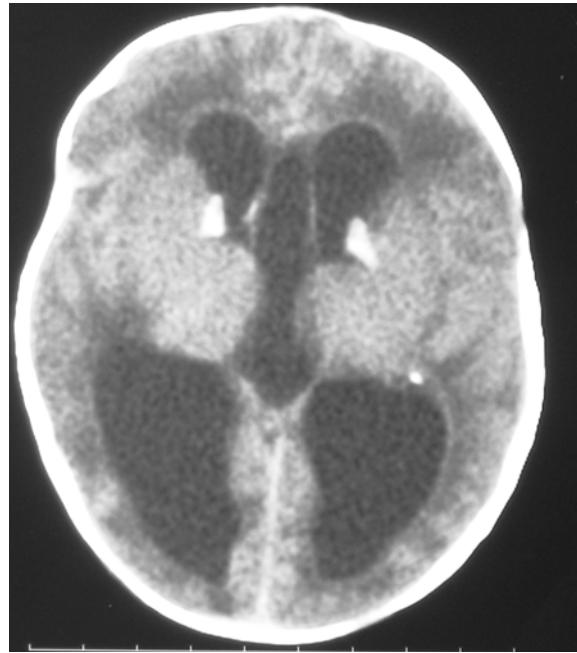


Figure S7



**Table S1. Characterization of cataracts**

Patient #	Pre-natal	Post-natal	Morphology					Progression			Complexity			Cataract Surgery	Glaucoma	Retinal Detach-ment
			Ant. Polar	Ant. Subcap-sular	Nuclear	Post. Subcap-sular	?	Stable	Prog-ressive	?	Partial	Total	?			
8 (F/A)	OD															X
	OS															
10 (F/A)	OD															
	OS															
14 (F/O)	OD															
	OS															
15 (F/A)	OD															
	OS															
27 (H/C)	OD															
	OS															
32 (H/C)	OD													a		
	OS													a		
34 (R/A)	OD															
	OS															
40 (R/C)	OD															
	OS															
47 (H/C)	OD													b		
	OS															
55 (H/C)	OD															
	OS															
60 (R/C)	OD													a		
	OS															
66 (R/C)	OD													c		X
	OS															
78 (R/A)	OD															
	OS															
90 (R/C)	OD															
	OS															
92 (R/A)	OD															
	OS															
97 (R/A)	OD															
	OS															
125 (F/C)	OD															
	OS															
137 (F/C)	OD															
	OS															
139 (F/C)	OD															
	OS															
152 (R/A)	OD															X
	OS															
<b>TOTALS</b>	14	13	3	6	5	7	6	12	12	3	13	9	5	5	2	16

KEY: a = extracapsular cataract extraction, b = enucleation at 14 years, c = pars plana lensectomy with silicone oil, X = eye with retinal detachment but no cataract

<span style="background-color: yellow;"> </span>	N/A = Not available, child diagnosed after 1st year of life
<span style="background-color: orange;"> </span>	Severe findings at birth