Supplementary Materials

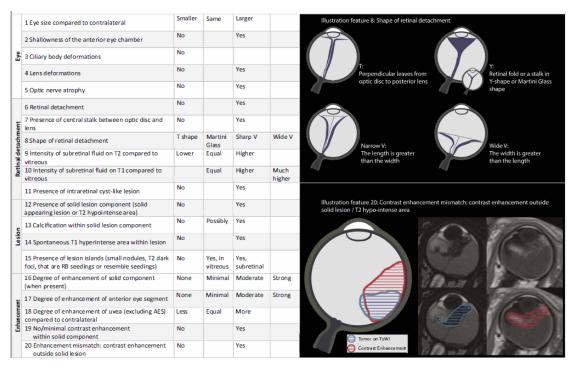


Figure S1. Adopted MR imaging scoring item list for retinoblastoma, persistent fetal vasculature (PFV) and Coats' disease, including example images and illustrations.

Table S1. Association of individual MR imaging features with diagnosis (retinoblastoma, Coats' disease, PFV/retinal dysplasia).

Featu re#	MR Imaging feature	Fleiss' Kappa for interrea der agreem ent	Fisher freeman halton Exact (2-sided) p value for association with diagnosis	Bonferroni corrected p value for association with diagnosis
1	Eye size compared to contralateral	0.37	<0.001	<0.001
2	Shallowness of the anterior eye chamber	0.71	0.022	0.446
3	Ciliary body deformations	0.39	<0.001	< 0.001
4	Lens deformations	0.53	<0.001	< 0.001
5	Optic nerve atrophy	0.49	<0.001	< 0.001
6	Retinal detachment	0.49	0.476	1.000
7	Central stalk between optic disc and lens	0.43	<0.001	< 0.001
8	Shape of retinal detachment	0.40	0.001	0.021
9	Intensity of subretinal fluid on T2 compared to vitreous	0.34	0.021	0.424
10	Intensity of subretinal fluid on T1 compared to vitreous	0.44	0.009	0.180
11	Intraretinal macrocyst	0.55	<0.001	0.005
12	Solid lesion component (solid appearing lesion or T2 hypointense area)	0.26	0.100	1.000
13	Absence of (possible) calcifications	0.35	<0.001	< 0.001
14	Spontaneous T1 hyperintense area within lesion	0.21	0.068	1.000
15	Presence of lesion islands (small nodules, T2 hypointense foci that are retinoblastoma seeding or resembling foci)	0.44	0.001	0.018
16	Degree of enhancement of solid component	0.25	0.799	1.000
17	Degree of enhancement of anterior eye segment	0.23	0.042	0.847
18	Degree of enhancement of uvea (excluding AES) compared to contralateral	0.15	0.253	1.000
19	No/minimal contrast enhancement within solid component	0.35	<0.001	0.008
20	Enhancement mismatch: contrast enhancement outside solid lesion	0.15	<0.001	0.001

Table S2. Sensitivity, specificity and accuracy for predicting diagnosis for imaging features significantly associated with diagnosis.

71% (53–85%)		Accuracy (95%CI)
7 170 (00 00 70)	91% (76–98%)	81% (69–89%)
81% (64–93%)	74% (56–87%)	81% (69–87%)
9% (2–25%)	97% (85–100%)	54% (41–66%)
30% (65–93%)	100% (89–100%)	66% (53–77%)
38% (22–56%)	97% (84–100%)	68% (55–78%)
22%(9–40%)	100% (89–100%)	62% (49–74%)
24% (11–42%)	100% (89–100%)	63% (50–74%)
31% (15–51%)	77% (59–90%)	55% (42-68%)
28% (13–47%)	100% (89–100%)	65% (52–77%)
25% (11–43%)	93% (77–99%)	57% (44–70%)
55% (36–73%)	66% (46–82%)	60% (47–72%)
32% (17–51%)	100% (90–100%)	66% (54–77%)
62% (42-79%)	100% (90–100%)	83% (81–91%)
30% (16–49%)	96% (78–100%)	58% (44–71%)
64% (45-80%)	76% (58–89%)	70% (57–80%)
38% (21–57%)	97% (85–100%)	70% (57–81%)
37% (20–56%)	100% (90–100%)	70% (58–81%)
	9% (2–25%) 30% (65–93%) 38% (22–56%) 22% (9–40%) 24% (11–42%) 31% (15–51%) 28% (13–47%) 25% (11–43%) 55% (36–73%) 32% (17–51%) 62% (42–79%) 30% (16–49%) 64% (45–80%) 38% (21–57%)	9% (2-25%) 97% (85-100%) 30% (65-93%) 100% (89-100%) 38% (22-56%) 97% (84-100%) 22% (9-40%) 100% (89-100%) 24% (11-42%) 100% (89-100%) 31% (15-51%) 77% (59-90%) 28% (13-47%) 100% (89-100%) 25% (11-43%) 93% (77-99%) 55% (36-73%) 66% (46-82%) 32% (17-51%) 100% (90-100%) 62% (42-79%) 100% (90-100%) 30% (16-49%) 96% (78-100%) 64% (45-80%) 76% (58-89%) 38% (21-57%) 97% (85-100%)