Table S1 Comprehensive overview of patients' clinical characteristics, iridocorneal angle morphology, and genetic defects

Patient No.	Sex	Age at first visit	Presenting complaint	Onset age of glaucoma	Iridocorneal angle by number of quadrants (OD)					Corneal	Iridocorneal angle by number of quadrants (OS)					s (OS)	Corneal	Mutant	Nucleotide changes	
					Type A	Туре В	Type C	Type D	Type E	Type F	clarity (OD)	Type A	Type B	Type C	Type D	Type E	Type F	clarity (OS)	gene	Nucleotide changes
	М	1 m	Whitish appearance of the left eye	at birth		1	3				1	1		3				2	FOXC1	c.388C>T
	M	1 m	Whitish appearance of both eyes	at birth		1.5		2.5			2	-	-	-	-	-	-	2	FOXC1	c.592_593delins C
	F	1 m	Whitish appearance of both eyes	at birth		4					2		4					2	FOXC1	Gross deletion in 6: 1478641-269475
	M	1 m	Whitish appearance of both eyes	at birth		3.5		0.5			2		3.5		0.5			2	FOXC1	c.503_504insGCGGCG
	M	2 m	Whitish appearance of both eyes	at birth	1.5		2.5				2	1.5		2.5				2	FOXC1	c.392C>T
	F	9 y	Whitish appearance of both eyes	at birth		3	1				3		3	1				3	FOXC1	c.430A>T
	M	1 m	Whitish appearance of both eyes	1m		1.5		2.5			2		1.5		2.5			2	FOXC1	c.380G>A
	M	4 m	Whitish appearance of the right eye	4m			4				2.5	-	-	-	-	-	-	1	FOXC1	c.240_241insTAT
	M	5 m	Whitish appearance of both eyes	5m		2.5	1.5				2.5		2.5	1.5				2.5	FOXC1	Gross deletion in 6: 382441-233307
0	M	10 y	Reduced vision in both eyes	10y	1	2.5		0.5			2	1.5	2.5					2	FOXC1	c.275A>C
1	F	14 y	Reduced vision in both eyes	14y		1.5	2.5				1		1	3				1	FOXC1	c.246C>G
2	М	15 y	Reduced vision in both eyes	15y				4			1				4			1	FOXC1	c.482T>A
3	M	15 y	Pain in both eyes	15y		3	1				1		2.5	1.5				1	FOXC1	c.205delC
4	F	18 y	Reduced vision in both eyes	18y		4					1		3.5			0.5		1	FOXC1	c.718_719del
5	F	24 y	Reduced vision in both eyes	24y		3	1				1		3	1				1	FOXC1	c.718_719del
6	F	5 m	Whitish appearance of both eyes	5m					4		2.5					4		2.5	PITX2	c.173T>G
7	М	2 y	Reduced vision in both eyes	2y		1.5			2.5		1		1.5			2.5		1	PITX2	c.348delG
3	F	4 y	Reduced vision in both eyes	4y					3	1	1					3	1	2	PITX2	c.103A>T
9	F	5 y	Reduced vision in both eyes	5y					4		2					4		1	PITX2	c.269G>C
)	F	13 y	Pain in the left eye	13y	-	-	-	-	-	-	1					4		1	PITX2	c.253-11A>G
I	М	17 y	Reduced vision in both eyes	17y						4	1						4	1	PITX2	c.190C>G
2	М	18 y	Reduced vision in both eyes	18y	2.5				1.5		1	3				1		1	PITX2	c.158_173GGTAGCT
3	М	24 y	Reduced vision in the left eye	24y					3	1	1	1				3		1	PITX2	c.253-1G>A
4	М	25 y	Reduced vision in both eyes	25y	3				1		1	3				1		1	PITX2	c.377delC
5	М	30 y	Reduced vision in the left eye	30y	3					1	1	3					1	1	PITX2	c.253-11A>G
6	M	35 y	Reduced vision in both eyes	35y	0.5				3.5		1	0.5	1			2.5		1	PITX2	c.539_551del
7	F	41 y	Pain in both eyes	41y		0.5		0.5	3		2		1.5			2.5		2	PITX2	c.173T>C
3	F	46 y	Pain in both eyes	46y	0.5		0.5		3		2					2.5	1.5	2	PITX2	c.253-11A>G
9	М	61 y	Reduced vision in both eyes	61y	2.5	0.5	0.5			0.5	1	3.5		0.5				1	PITX2	c.282G > A
0	F	10 y	Reduced vision in both eyes	10y	-	-	-	-	-	-	2	0.5	0.5			3		1	/	NA
1	М	14 y	Reduced vision in both eyes	14y	0.5				3.5		1	-	-	_	-	-	-	1	/	NA
2	М	14 y	Reduced vision in both eyes	14y			4				1			4				1	/	NA
3	М	15 y	Reduced vision in both eyes	15y		4					1		4					1	/	NA
4	М	16 y	Pain in both eyes	16y						4	1						4	1	/	NA
5	М	22 y	Reduced vision in both eyes	22y						4	2						4	1	/	NA
6	F	22 y	Pain in both eyes	22y		3	0.5		0.5		1		3	0.5		0.5		1	/	NA
7	М	32 y	Pain in both eyes	32y	3		1				2	3		1				2	/	NA
3	М	34 y	Reduced vision in both eyes	34y	3	1					1	2.5	1.5					1	/	NA
9	F	36 y	Reduced vision in both eyes	36y	1				0.5	2.5	1	1	-			0.5	2.5	1	/	NA
0	· F	36 y	Pain in both eyes	36y	1				3		1	-	_	_	_	-	-	1	/	NA
1	· F	42 y	Reduced vision in the right eye	42y	•	3	0.5	0.5	-		1		3	1				1	,	NA
2	M	-72 y 70 y	Reduced vision in both eyes	70y	3	1	0.0	0.0			2	3	1					1	,	NA

Type A: pure high iris insertion; Type B: posterior embryotoxon; Type C: iris process; Type D: trabecular-iris synechia; Type E: peripheral iridocorneal adhesion; Type F: goniodysgenesis. No. 14 and No. 15 are sisters; No. 25 is the father of No. 20. OD, right eye; OS, left eye; M, male; F, female; -, excluded in this study; /, negative for the variant; NA, not applicable.

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