

BIBLIOGRAPHIE

42.1. Dystrophie de Fuchs

- [1] Borderie VM, Baudrimont M, Vallee A, et al. Corneal endothelial cell apoptosis in patients with Fuchs' dystrophy. *Invest Ophthalmol Vis Sci* 2000;41:2501–5.
- [2] Okumura N, Hashimoto K, Kitahara M, et al. Activation of TGF-beta signaling induces cell death via the unfolded protein response in Fuchs endothelial corneal dystrophy. *Sci Rep* 2017;7:6801–17.
- [3] Ong Tone S, Kocaba V, Böhm M, et al. Fuchs endothelial corneal dystrophy : the vicious cycle of Fuchs pathogenesis. *Prog Retin Eye Res* 2021;80:100863. Jan.
- [4] Kocaba V, Katikireddy KR, Gipson I, et al. Association of the gutta-induced microenvironment with corneal endothelial cell behavior and demise in Fuchs endothelial corneal dystrophy. *JAMA Ophthalmol* 2018;136:886–92.
- [5] Raphael B, Lange T, Wood TO, McLaughlin BJ. Growth of human corneal endothelium on altered Descemet's membrane. *Cornea* 1992;11:242–9.
- [6] Matthaei M, Zhu AY, Kallay L, et al. Transcript profile of cellular senescence-related genes in Fuchs endothelial corneal dystrophy. *Exp Eye Res* 2014;129:13–7.
- [7] Jurkunas UV, Bitar MS, Funaki T, Azizi B. Evidence of oxidative stress in the pathogenesis of fuchs endothelial corneal dystrophy. *Am J Pathol* 2010;177:2278–89.
- [8] McCartney MD, Wood TO, McLaughlin BJ. Immunohistochemical localization of ATPase in human dysfunctional corneal endothelium. *Curr Eye Res* 1987;6:1479–86.
- [9] McCartney MD, Wood TO, McLaughlin BJ. Moderate Fuchs' endothelial dystrophy ATPase pump site density. *Invest Ophthalmol Vis Sci* 1989;30:1560–4.
- [10] Tuberville AW, Wood TO, McLaughlin BJ. Cytochrome oxidase activity of Fuchs' endothelial dystrophy. *Curr Eye Res* 1986;5:939–47.
- [11] Mandell RB, Polse KA, Brand RJ, et al. Corneal hydration control in Fuchs' dystrophy. *Invest Ophthalmol Vis Sci* 1989;30:845–52.
- [12] Saini JS, Mittal S. In vivo quantification of corneal endothelium function. *Acta Ophthalmol Scand* 1996;74:468–72.
- [13] Wilson SE, Bourne WM, O'Brien PC, Brubaker RF. Endothelial function and aqueous humor flow rate in patients with Fuchs' dystrophy. *Am J Ophthalmol* 1988;106:270–8.
- [14] Bahn CF, Falls HF, Varley GA, et al. Classification of corneal endothelial disorders based on neural crest origin. *Ophthalmology* 1984;91:558–63.
- [15] Burns RR, Bourne WM, Brubaker RF. Endothelial function in patients with cornea guttata. *Invest Ophthalmol Vis Sci* 1981;20:77–85.
- [16] Bourne WM. Clinical estimation of corneal endothelial pump function. *Trans Am Ophthalmol Soc* 1998;96:229–39.
- [17] Bourne WM, Johnson DH, Campbell RJ. The ultrastructure of Descemet's membrane. III Fuchs' dystrophy *Arch Ophthalmol* 1982;100:1952–5.
- [18] Rosenblum P, Stark WJ, Maumenee IH, et al. Hereditary Fuchs' dystrophy. *Am J Ophthalmol* 1980;90:455–62.
- [19] Altamirano F, Ortiz-Morales G, O'Connor-Cordova MA, et al. Fuchs endothelial corneal dystrophy : an updated review. *Int Ophthalmol* 2024;44. 61-24.
- [20] Matthaei M, Hribek A, Clahsen T, et al. Fuchs endothelial corneal dystrophy : clinical, genetic, pathophysiologic, and therapeutic aspects. *Annu Rev Vis Sci* 2019;5:151–75.
- [21] Afshari NA, Pittard AB, Siddiqui A, Klintworth GK. Clinical study of Fuchs corneal endothelial dystrophy leading to penetrating keratoplasty : a 30-year experience. *Arch Ophthalmol* 2006;124:777–80.
- [22] Gottsch JD, Sundin OH, Liu SH, et al. Inheritance of a novel COL8A2 mutation defines a distinct early-onset subtype of fuchs corneal dystrophy. *Invest Ophthalmol Vis Sci* 2005;46:1934–9.
- [23] Weiss JS, Rapuano CJ, Seitz B, et al. IC3D classification of corneal dystrophies-Edition 3. *Cornea* 2024;43:466–527.
- [24] Mootha VV, Hansen B, Rong Z, et al. Fuchs' endothelial corneal dystrophy and RNA foci in patients with myotonic dystrophy. *Invest Ophthalmol Vis Sci* 2017;58:4579–85.
- [25] Olsen T. Is there an association between Fuchs' endothelial dystrophy and cardiovascular disease ? *Graefes Arch Clin Exp Ophthalmol* 1984;221:239–40.
- [26] Lipman RM, Rubenstein JB, Torczynski E. Keratoconus and Fuchs' corneal endothelial dystrophy in a patient and her family. *Arch Ophthalmol* 1990;108:993–4.
- [27] Nagarsheth M, Singh A, Schmotzer B, et al. Relationship between Fuchs endothelial corneal dystrophy severity and glaucoma and/or ocular hypertension. *Arch Ophthalmol* 2012;130:1384–8.
- [28] Pitts JF, Jay JL. The association of Fuchs's corneal endothelial dystrophy with axial hypermetropia, shallow anterior chamber, and angle closure glaucoma. *Br J Ophthalmol* 1990;74:601–4.
- [29] Rao GP, Kaye SB, Agius-Fernandez A. Central corneal endothelial guttae and age-related macular degeneration : is there an association ? *Indian J Ophthalmol* 1998;46:145–7.
- [30] Goar EL. Dystrophy of the corneal endothelium (Cornea Gut-tata), with report of a histologic examination. *Trans Am Ophthalmol Soc* 1933;31:48–59.
- [31] Lorenzetti DW, Uotila MH, Parikh N, Kaufman HE. Central cornea guttata. Incidence in the general population. *Am J Ophthalmol* 1967;64:1155–8.
- [32] Krachmer JH, Purcell Jr JJ, Young CW, Bucher KD. Corneal endothelial dystrophy. A study of 64 families. *Arch Ophthalmol* 1978;96:2036–9.
- [33] Nagaki Y, Hayasaka S, Kitagawa K, Yamamoto S. Primary cornea guttata in Japanese patients with cataract : specular microscopic observations. *Jpn J Ophthalmol* 1996;40:520–5.
- [34] Kitagawa K, Kojima M, Sasaki H, et al. Prevalence of primary cornea guttata and morphology of corneal endothelium in aging Japanese and Singaporean subjects. *Ophthalmic Res* 2002;34:135–8.
- [35] Zoega GM, Fujisawa A, Sasaki H, et al. Prevalence and risk factors for cornea guttata in the Reykjavik Eye Study. *Ophthalmology* 2006;113:565–9.
- [36] Musch DC, Niziol LM, Stein JD, et al. Prevalence of corneal dystrophies in the United States : estimates from claims data. *Invest Ophthalmol Vis Sci* 2011;52:6959–63.
- [37] Higa A, Sakai H, Sawaguchi S, et al. Prevalence of and risk factors for cornea guttata in a population-based study in a southwestern island of Japan : the Kumejima study. *Arch Ophthalmol* 2011;129:332–6.
- [38] Eghrari AO, McGlumphy EJ, Iliff BW, et al. Prevalence and severity of Fuchs corneal dystrophy in Tangier Island. *Am J Ophthalmol* 2012;153:1067–72.
- [39] Zhang X, Igo Jr RP, Fondran J, et al. Association of smoking and other risk factors with Fuchs' endothelial corneal dystrophy severity and corneal thickness. *Invest Ophthalmol Vis Sci* 2013;54:5829–35.
- [40] Iwamoto T, DeVoe AG. Electron microscopic studies on Fuchs'combined dystrophy. I. Posterior portion of the cornea. *Invest Ophthalmol* 1971;10:9–28.
- [41] Adamis AP, Filatov V, Tripathi BJ, Tripathi RC. Fuchs' endothelial dystrophy of the cornea. *Surv Ophthalmol* 1993;38:149–68.
- [42] Amin SR, Baratz KH, McLaren JW, Patel SV. Corneal abnormalities early in the course of Fuchs' endothelial dystrophy. *Ophthalmology* 2014;121:2325–33.
- [43] Iwamoto T, DeVoe AG. Electron microscopic studies on Fuchs' combined dystrophy. II. Anterior portion of the cornea. *Invest Ophthalmol* 1971;10:29–40.
- [44] Schrems-Hoesl LM, Schrems WA, Cruzat A, et al. Cellular and subbasal nerve alterations in early stage Fuchs' endothelial corneal dystrophy : an in vivo confocal microscopy study. *Eye (Lond)* 2013;27:42–9.
- [45] Hirano K, Klintworth GK, Zhan Q, et al. Beta ig-h3 is synthesized by corneal epithelium and perhaps endothelium in Fuchs' dystrophic corneas. *Curr Eye Res* 1996;15:965–72.
- [46] Calandra A, Chwa M, Kenney MC. Characterization of stroma from Fuchs' endothelial dystrophy corneas. *Cornea* 1989;8:90–7.
- [47] Borderie V, Baudrimont M, Bourcier T, et al. Cornea guttata et dystrophie de Fuchs. *J Fr Ophtalmol* 1999;22:987–1002.
- [48] Kenney MC, Labermeier U, Hinds D, Waring 3rd GO. Characterization of the Descemet's membrane/posterior collagenous layer isolated from Fuchs' endothelial dystrophy corneas. *Exp Eye Res* 1984;39:267–77.

- [49] Gottsch JD, Zhang C, Sundin OH, et al. Fuchs corneal dystrophy : aberrant collagen distribution in an L450W mutant of the COL8A2 gene. *Invest Ophthalmol Vis Sci* 2005;46:4504–11.
- [50] Matthaei M, Hu J, Kallay L, et al. Endothelial cell microRNA expression in human late-onset Fuchs' dystrophy. *Invest Ophthalmol Vis Sci* 2014;55:216–25.
- [51] Okumura N, Hashimoto K, Kitahara M, et al. Activation of TGF-beta signaling induces cell death via the unfolded protein response in Fuchs endothelial corneal dystrophy. *Sci Rep* 2017;7:6801–17.
- [52] Jurkunas UV, Bitar M, Rawe I. Colocalization of increased transforming growth factor-beta-induced protein (TGFBIP) and Clusterin in Fuchs endothelial corneal dystrophy. *Invest Ophthalmol Vis Sci* 2009;50:1129–36.
- [53] Poulsen ET, Dyrland TF, Runager K, et al. Proteomics of Fuchs' endothelial corneal dystrophy support that the extracellular matrix of Descemet's membrane is disordered. *J Proteome Res* 2014;13:4659–67.
- [54] Weller JM, Zenkel M, Schlotzer-Schrehardt U, et al. Extracellular matrix alterations in late-onset Fuchs' corneal dystrophy. *Invest Ophthalmol Vis Sci* 2014;55:3700–8.
- [55] Muller LJ, Pels L, Vrensen GF. Novel aspects of the ultrastructural organization of human corneal keratocytes. *Invest Ophthalmol Vis Sci* 1995;36:2557–67.
- [56] Sasaki Y, Tuberville AW, Wood TO, McLaughlin BJ. Freeze fracture study of human corneal endothelial dysfunction. *Invest Ophthalmol Vis Sci* 1986;27:480–5.
- [57] Friedrich M, Hofmann CA, Chychko L, et al. Influence of subclinical corneal edema on contrast sensitivity in Fuchs endothelial corneal dystrophy. *Cornea* 2024;43(9):1154–61.
- [58] Wacker K, Baratz KH, Bourne WM, Patel SV. Patient-reported visual disability in Fuchs' endothelial corneal dystrophy measured by the visual function and corneal health status instrument. *Ophthalmology* 2018;125:1854–61.
- [59] Weller JM, Bennemann M, Tourtas T, et al. Differences in guttae ultramorphology in relation to visual function in Fuchs endothelial corneal dystrophy. *Cornea* 2024;43(11):1348–54.
- [60] Wilson SE, Bourne WM. Fuchs' dystrophy. *Cornea* 1988;7:2–18.
- [61] Loewenstein A, Hourvitz D, Goldstein M, et al. Association of fuchs' corneal endothelial dystrophy with angle-closure glaucoma. *J Glaucoma* 1994;3:201–5.
- [62] Brooks AM, Grant G, Gillies WE. The significance of anterior chamber depth in Fuchs' corneal dystrophy and cornea guttata. *Cornea* 1994;13:131–5.
- [63] Laing RA, Leibowitz HM, Oak SS, et al. Endothelial mosaic in Fuchs' dystrophy. A qualitative evaluation with the specular microscope. *Arch Ophthalmol* 1981;99:80–3.
- [64] Foo VHX, Lim GYS, Liu YC, et al. Deep learning for detection of Fuchs endothelial dystrophy from widefield specular microscopy imaging : a pilot study. *Eye Vis (Lond)* 2024;11:11–24.
- [65] Prada AM, Quintero F, Mendoza K, et al. Assessing Fuchs corneal endothelial dystrophy using artificial intelligence-derived morphometric parameters from specular microscopy images. *Cornea* 2024;43(9):1080–7.
- [66] Repp DJ, Hodge DO, Baratz KH, et al. Fuchs' endothelial corneal dystrophy : subjective grading versus objective grading based on the central-to-peripheral thickness ratio. *Ophthalmology* 2013;120:687–94.
- [67] Eleiwa T, Elsayy A, Ozcan E, Abou Shousha M. Automated diagnosis and staging of Fuchs' endothelial cell corneal dystrophy using deep learning. *Eye Vis (Lond)* 2020;7: 44–20.
- [68] Alnawaiseh M, Zumhagen L, Wirths G, et al. Corneal densitometry, central corneal thickness, and corneal central-to-peripheral thickness ratio in patients with Fuchs endothelial dystrophy. *Cornea* 2016;35:358–62.
- [69] Sun SY, Wacker K, Baratz KH, Patel SV. Determining subclinical edema in Fuchs endothelial corneal dystrophy : revised classification using Scheimpflug tomography for preoperative assessment. *Ophthalmology* 2019;126:195–204.
- [70] Patel SV, Hodge DO, Treichel EJ, et al. Predicting the prognosis of Fuchs endothelial corneal dystrophy by using Scheimpflug tomography. *Ophthalmology* 2020;127:315–23.
- [71] Mustonen RK, McDonald MB, Srivannaboon S, et al. In vivo confocal microscopy of Fuchs' endothelial dystrophy. *Cornea* 1998;17:493–503.
- [72] Wacker K, Grewing V, Fritz M, et al. Morphological and optical determinants of visual disability in Fuchs endothelial corneal dystrophy. *Cornea* 2019;39(6):726–31.
- [73] Patel SV, Hodge DO, Treichel EJ, et al. Predicting the prognosis of Fuchs endothelial corneal dystrophy by using Scheimpflug tomography. *Ophthalmology* 2020;127(3):315–23.
- [74] Memmi B, Knoeri J, Bouheraoua N, Borderie V. Intraocular lens calcification after pseudophakic endothelial keratoplasty. *Am J Ophthalmol* 2023;246:86–95.
- [75] Brooks AM, Grant G, Gillies WE. The use of specular microscopy to investigate unusual findings in the corneal endothelium and its adjacent structures. *Aust N Z J Ophthalmol* 1988;16:235–43.
- [76] Birbal RS, Ni Dhubghaill S, Bourgonje VJA, et al. Five-year graft survival and clinical outcomes of 500 consecutive cases after Descemet membrane endothelial keratoplasty. *Cornea* 2020;39(3):290–7.
- [77] Tourabaly M, Chetrit Y, Provost J, et al. The influence of graft thickness and regularity on vision recovery after endothelial keratoplasty. *Br J Ophthalmol* 2020;104(9):1317–23.
- [78] Kurji KH, Cheung AY, Eslani M, et al. Comparison of visual acuity outcomes between nanothin Descemet stripping automated endothelial keratoplasty and Descemet membrane endothelial keratoplasty. *Cornea* 2018;37:1226–31.
- [79] Borderie VM, Sabolic V, Touzeau O, et al. Screening human donor corneas during organ culture for the presence of guttae. *Br J Ophthalmol* 2001;85:272–6.
- [80] Oellerich S, Ham L, Frank LE, et al. Parameters associated with endothelial cell density variability after Descemet membrane endothelial keratoplasty. *Am J Ophthalmol* 2020;211:22–30.
- [81] Baydoun L, Ham L, Borderie V, et al. Endothelial survival after Descemet membrane endothelial keratoplasty : effect of surgical indication and graft adherence status. *JAMA Ophthalmol* 2015;133:1277–85.
- [82] Lemaitre D, Tourabaly M, Borderie V, Dechartres A. Long-term outcomes after lamellar endothelial keratoplasty compared to penetrating keratoplasty for corneal endothelial dysfunction : a systematic review. *Cornea* 2023;42:917–28.
- [83] Fu L, Hollick EJ. Comparison of long-term outcomes of DSEK and DMEK in Fuchs endothelial dystrophy. *Cornea* 2024;43:184–9.
- [84] Borkar DS, Veldman P, Colby KA. Treatment of Fuchs endothelial dystrophy by Descemet stripping without endothelial keratoplasty. *Cornea* 2016;35:1267–73.
- [85] Kinoshita S, Koizumi N, Ueno M, et al. Injection of cultured cells with a ROCK inhibitor for bullous keratopathy. *N Engl J Med* 2018;378:995–1003.
- [86] Ueno M, Toda M, Numa K, et al. Superiority of mature differentiated cultured human corneal endothelial cell injection therapy for corneal endothelial failure. *Am J Ophthalmol* 2022;237:267–77.
- [87] Uehara H, Zhang X, Pereira F, et al. Start codon disruption with CRISPR/Cas9 prevents murine Fuchs' endothelial corneal dystrophy. *Elife* 2021;10, e55637.

42.2. Dystrophie postérieure polymorphe

- [88] Rodrigues MM, Sun TT, Krachmer J, Newsome D. Epithelialization of the corneal endothelium in posterior polymorphous dystrophy. *Invest Ophthalmol Vis Sci* 1980;19:832–5.
- [89] Héon E, Mathers WD, Alward WL, et al. Linkage of posterior polymorphous corneal dystrophy to 20q11. *Hum Mol Genet* 1995;4:485–8.
- [90] Bakhtiari P, Frausto RF, Roldan AN, et al. Exclusion of pathogenic promoter region variants and identification of novel nonsense mutations in the zinc finger E-box binding homeobox 1 gene in posterior polymorphous corneal dystrophy. *Mol Vis* 2013;19:575–80.
- [91] Biswas S, Munier FL, Yardley J, et al. Missense mutations in COL8A2, the gene encoding the alpha2 chain of type VIII collagen, cause two forms of corneal endothelial dystrophy. *Hum Mol Genet* 2001;10:2415–23.
- [92] Weiss JS, Rapuano CJ, Seitz B, et al. IC3D classification of corneal dystrophies-Edition 3. *Cornea* 2024;43:466–527.

- [93] Jirsova K, Merjava S, Martincova R, et al. Immunohistochemical characterization of cytokeratins in the abnormal corneal endothelium of posterior polymorphous corneal dystrophy patients. *Exp Eye Res* 2007;84:680–6.
- [94] Ahn YJ, Choi SI, Yum HR, et al. Clinical features in children with posterior polymorphous corneal dystrophy. *Optom Vis Sci* 2017;94:476–81.
- [95] Aldave AJ, Ann LB, Frausto RF, et al. Classification of posterior polymorphous corneal dystrophy as a corneal ectatic disorder following confirmation of associated significant corneal steepening. *JAMA Ophthalmol* 2013;131:1583–90.
- [96] Patel DV, Grupcheva CN, McGhee CNJ. In vivo microscopy of posterior polymorphous dystrophy. *Cornea* 2005;24:550–4.
- [97] Fung SSM, Sami H, El Hamouly A, et al. Endothelial cell density in children with posterior polymorphous corneal dystrophy : a longitudinal case-control study. *Eye (Lond)* 2021;35:3397–403.
- [98] Tourabaly M, Chetrit Y, Provost J, et al. The influence of graft thickness and regularity on vision recovery after endothelial keratoplasty. *Br J Ophthalmol* 2020;104(9):1317–23.
- 42.3. Dystrophie endothéliale congénitale héréditaire (CHED)**
- [99] Weiss JS, Møller HU, Aldave AJ, et al. IC3D classification of corneal dystrophies- edition 2. *Cornea* 2015;34(2):117–59.
- [100] Pearce WG, Tripathi RC, Morgan G. Congenital endothelial corneal dystrophy. Clinical, pathological, and genetic study. *Br J Ophthalmol* 1969;53(9):577–91.
- [101] Maumenee AE. Congenital hereditary corneal dystrophy. *Am J Ophthalmol* 1960;50:1114–24.
- [102] Ramappa M, Mohamed A, Achanta DS, et al. Descemet stripping automated endothelial keratoplasty in pediatric age group : a decade of our experience. *Cornea* 2021;40(12):1571–80.
- [103] Kirkness CM, McCartney A, Rice NS, et al. Congenital hereditary corneal edema of Maumenee : its clinical features, management, and pathology. *Br J Ophthalmol* 1987;71(12):130–44.
- [104] Georgeon C, Bouheraoua N, Laroche L, Borderie V. Optical coherence tomography and in vivo confocal microscopy in congenital hereditary endothelial dystrophy (CHED). *J Fr Ophtalmol* 2017;40(2):148–50.
- [105] Desir J, Abramowicz M. Congenital hereditary endothelial dystrophy with progressive sensorineural deafness (Harboyan syndrome). *Orphanet J Rare Dis* 2008;3:28.
- [106] Bermejo E, Martínez-Frías ML. Congenital eye malformations : clinical-epidemiological analysis of 1,124,654 consecutive births in Spain. *Am J Med Genet* 1998;75(5):497–504.
- [107] Mehta N, Verma A, Achanta DS, et al. Updates on congenital hereditary endothelial dystrophy. *Taiwan J Ophthalmol* 2023;13(4):405–16.
- [108] Moazzeni H, Javadi MA, Asgari D, et al. Observation of nine previously reported and non-reported SLC4A11 mutations among 20 Iranian CHED probands and identification of an MPDZ mutation as possible cause of CHED and FECD in one family. *Br J Ophthalmol* 2020;104(11):1621–8.
- [109] Chaurasia S, Ramappa M, Annapurna M, Kannabiran C. Coexistence of congenital hereditary endothelial dystrophy and Fuchs endothelial corneal dystrophy associated with SLC4A11 mutations in affected families. *Cornea* 2020;39(3):354–7.
- [110] Siddiqui S, Zenteno JC, Rice A, et al. Congenital hereditary endothelial dystrophy caused by SLC4A11 mutations progresses to Harboyan syndrome. *Cornea* 2014;33(3):247–51.
- [111] Patel SP, Parker MD. SLC4A11 and the pathophysiology of congenital hereditary endothelial dystrophy. *Biomed Res Int* 2015;2015, 475392.
- [112] Guha S, Chaurasia S, Ramachandran C, Roy S. SLC4A11 depletion impairs NRF2 mediated antioxidant signaling and increases reactive oxygen species in human corneal endothelial cells during oxidative stress. *Sci Rep* 2017;7(1):4074.
- [113] Alka K, Casey JR. Molecular phenotype of SLC4A11 missense mutants : Setting the stage for personalized medicine in corneal dystrophies. *Hum Mutat* 2018;39(5):676–90.
- [114] Alka K, Casey JR. Ophthalmic nonsteroidal anti-inflammatory drugs as a therapy for corneal dystrophies caused by SLC4A11 mutation. *Invest Ophthalmol Vis Sci* 2018;59(10):4258–67.
- [115] Chiu AM, Mandziuk JJ, Loganathan SK, et al. High throughput assay identifies glafenine as a corrector for the folding defect in corneal dystrophy-causing mutants of SLC4A11. *Invest Ophthalmol Vis Sci* 2015;56(13):7739–53.
- [116] AlArrayedh H, Collum L, Murphy CC. Outcomes of penetrating keratoplasty in congenital hereditary endothelial dystrophy. *Br J Ophthalmol* 2018;102(1):19–25.
- [117] Yang F, Hong J, Xiao G, et al. Descemet stripping endothelial keratoplasty in pediatric patients with congenital hereditary endothelial dystrophy. *Am J Ophthalmol* 2020;209:132–40.
- [118] Ramappa M, Mohamed A, Achanta DS, et al. Descemet stripping automated endothelial keratoplasty in pediatric age group : a decade of our experience. *Cornea* 2021;40(12):1571–80.
- [119] Saad A, Ghazal W, Keaik M, et al. Outcomes of Descemet's membrane endothelial keratoplasty for congenital hereditary endothelial dystrophy. *J AAPOS* 2020;24(6):358.e1–6.
- [120] Mehta N, Ramappa M. Novel proposed algorithm in congenital hereditary endothelial dystrophy. *Semin Ophthalmol* 2023;38(2):108–15.
- [121] Schmid E, Lisch W, Philipp W, et al. A new, X-linked endothelial corneal dystrophy. *Am J Ophthalmol* 2006;141(3):478–87.