A 9-year-old girl presented with bilateral steep corneal curvatures (A) and crater-like vacuoles in posterior cornea (B, arrow), compatiblewith posterior polymorphous corneal dystrophy. Penetrating keratoplasty, performed for progressive corneal stromal opacification andcalcific band keratopathy (B, asterisk) demonstrated epithelial-like multilayered cells on the posterior corneal surface (C, arrowheads) and,in posterior stroma, forming vesicles (thick arrow), associated with multilamination and discontinuity in Descemet’s membrane (thin arrows) (C; hematoxylin-eosin; 1000). These cells were positive for high molecular weight cytokeratin (D; 1000)