A 71-year-old healthy White male presented in 2010 with intermittent redness in the right eye nasally for 10 years. On examination, corrected visual acuity was 20/25 OU. Slitlamp examination revealed an elevated yellow-pink conjunctival lesion in the right eye nasally with intrinsic vascularity and hemorrhage and normal left eye. Conjunctival biopsy of the right eye revealed subconjunctival amyloidosis with equal staining of κ and λ light chains. Follow-up examinations showed slow disease worsening over 13 years with diffuse amyloid infiltration of the conjunctiva overhanging the cornea for 360° in both eyes. At last visit, the patient was asymptomatic, and corrected visual acuity was 20/50 OU. Yearly systemic monitoring for amyloidosis and serum protein electrophoresis has been negative.