Sunny, Chi Lik Au¹ 1 Tung Wah Eastern Hospital

Potential competing interests: No potential competing interests to declare.

The term "membrane" is not too accurate in describing the retina, and "tissue" would be more appropriate because there are few membranes within the retina, which are marked out with asterisks below. As ophthalmologists, our specialist teaching is that the retina can be described as having 2 parts: (1) the neurosensory retina, containing the photoreceptors, neurons, and other elements; and (2) the retinal pigment epithelium (RPE). In cross section, from the inner to the outer retina, the layers of the neurosensory retina are as follows:

- internal limiting membrane*
- nerve fiber layer
- · ganglion cell layer
- · inner plexiform layer
- inner nuclear layer
- middle limiting membrane*
- outer plexiform layer (referred to as Henle fiber layer in the foveal region)
- outer nuclear layer
- external limiting membrane*
- · rod and cone inner segments
- rod and cone outer segments

From the 11 layers mentioned, there are actually 3 membranes included.

Also, as a vitreo-retinal surgeon operating on different retinal diseases, I could reassure you that the retina extends quite anteriorly over the "inner wall" of the eyeball (i.e., sclera), instead of barely over the "back wall" of the eyeball. From the ora serrata to the optic nerve, the retina actually curves along and occupies more than ²/₃ of the inner wall of the eyeball posterior to the lens zonules.