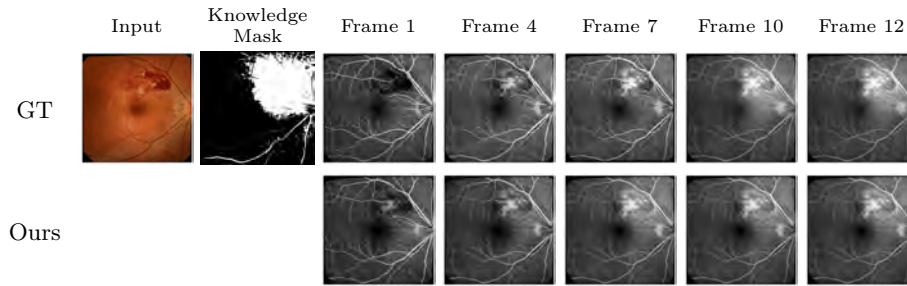**Supplementary Table 1.** The human assessment criteria. The three aspects of the scoring criteria are: vascular perfusion, conformity of lesion dynamics to clinical patterns, and the coherence, stability, and presence of artifacts in the video.

Scale	Quality	Description
1	Excellent	Similar morphology and fluorescent changes of retinal vessels and lesions
		Stable video
2	Good	Slight morphology and fluorescent changes of retinal vessels and lesions
		Moderate video stability
3	Normal	Moderate variation in morphology and fluorescent changes of retinal vessels and lesions
		Indicates lesions of diagnostic significance
		Moderate video stability
4	Poor	Large variation in morphology and intensity of retinal vessels and lesions
		Without lesions of diagnostic significance
		Moderate video stability
5	Very Poor	Large variation in morphology and intensity of choroidal and retinal vessels
		Unstable video with high noise level

Supplementary Figure 1. Visualization of the results. We can see that our generated outputs achieve high quality comparable to ground-truth (GT).