Supplementary Table 1: Hyperparameters for StyleGAN2 model. Using these settings, we trained the model on our inherited retinal disease dataset, which lasted for approximately 2-3 days on two NVIDIA-GeForce RTX 3090 GPUs.

Hyperparameter	Description	Value
z-dim	Size of random noise vector inputted to the GAN	512
w-dim	Size of the "style" vector that is generated by the mapping network of the StyleGAN. This contains information on the image stylistic features that are injected into the generator layers.	512
c-dim	Dimensionality of the embedded features after an implicit initial transformation of the class index, which ranges from 0 to 35.	512
k-img	The number of training iterations is measured in terms of the number of images (in thousands) shown to the GAN. This is represented as k-img.	5000
Learning rate	The size of the steps taken by the generator/discriminator to optimize its parameters during training.	0.002 for generator and discriminator
Batch-size	Number of images passed in a batch to the model during each training iteration.	32
Optimizer parameters	The optimization algorithm for updating neural network parameters during training.	Adam(β1=0, β2=0.99)