Supplementary Table 1. Training pseudocode for the conversion of color fundus images to OCT thickness maps.

Algorithm Fundus Image Translate to OCT Thickness Map training	
Require	Functions: *DIP (Digital Image Processing)*, *CLFun.* (*Compound Loss Function)*, $\arg\min_{\theta} CLFun.(\theta)$, $\eta/\sqrt{t+1}$, $\partial L(\theta^t)/\partial w$
Data	x (batch of training fundus images) y (batch of raw OCT thickness map)
Parameter	η(learning rate) w(model weight) σ^t (root mean square of the previous derivatives of parameter *w*)
0 :	for loop concept :
1 :	for x $\in training\ set$:
2 :	$x' \leftarrow DIP(x)$
3 :	output ← U-Net model (x')
4 :	$L \leftarrow CLFun.$ (output, y)
5 :	$L^* \leftarrow \arg\min_{Loss} CLFun.(L)$
6 :	$w^{t+1} \leftarrow w^t - \frac{\eta^t}{\sigma^t}$
7 :	Evaluate model performance with validation dataset