

## Imaging Retinal Methods

### Methods

Retinal images were collected to characterize retinal amyloid in participants with preclinical AD. Quantification of the number of curcumin-positive fluorescent retinal spots from a small subset of participants was performed for both A4 and LEARN studies.

Retinal images were captured by Retia cameras that transmitted the images directly to [NeuroVision](#). Images were analyzed using Afina, NeuroVision's image processing software. The emission signals of amyloid-beta plaques stained with curcumin were compared to the background signals in the retinal tissue to determine signal-to-background ratio.

### References

Ngolab, J., Donohue, M., Belsha, A., Salazar, J., Cohen, P., Jaiswal, S., Tan, V., Gessert, D., Korouri, S., Aggarwal, N. T., Alber, J., Johnson, K., Jicha, G., van Dyck, C., Lah, J., Salloway, S., Sperling, R. A., Aisen, P. S., Rafii, M. S., & Rissman, R. A. (2021). Feasibility study for detection of retinal amyloid in clinical trials: The Anti-Amyloid Treatment in Asymptomatic Alzheimer's Disease (A4) trial. *Alzheimer's & dementia (Amsterdam, Netherlands)*, 13(1), e12199. <https://doi.org/10.1002/dad2.12199>