

rtx1 clinical case report: diabetes

Diabetic retinopathy: non invasive visualization of microaneurysms

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Conventional angiography examination

Diabetic retinopathy.

Conventional fluorescein angiography shows multiple microaneurysms.

Fluorescein

angiography





Imagine Eyes rtx1 clinical case report: diabetes

Adaptive optics examination

Diabetic retinopathy.

Adaptive optics detects the same microaneurysms, without the need for injecting fluorescein.







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Microaneurysms. Central hyperreflectivity indicates a spherical shape.



Conclusion

- Adaptive optics imaging enables visualization of microscopic aneurysms in diabetic retinopathy.
- Unlike fluorescein angiography, the rtx1 examination is <u>non</u> <u>invasive</u> as it does not require injection of a fluorescent agent.

- See also:
- M. Lombardo, M. Parravano, S. Serrao, P. Ducoli, M. Stirpe, and G. Lombardo, "Analysis of retinal capillaries in patients with type 1 diabetes and nonproliferative diabetic retinopathy using adaptive optics imaging." Retina, vol. 33, no. 8, pp. 1630-1639, Sep.2013.



