



# Fluorescein (FFA) and Indocyanine Green (ICG) retinal angiographies

This information explains what to expect before, during and after a retinal angiogram, with FFA or ICG. If you have any queries, please speak to your doctor or nurse.

### What are the Fluorescein (FFA) and Indocyanine Green (ICG) angiographies procedures?

- These are important diagnostic procedures that give information about the condition of the blood vessels at the back of your eye.
- The tests help to diagnose many eye diseases within the retinal vasculature (FFA) and also beneath the retina (ICG), evaluate the severity of condition and plan the best form of treatment. Based on your clinical need, you will be required to have a single dye test or a combination of both (FFA and ICG).

### How is the test performed?

- 1. Upon arrival at the clinic, the nurse will test your sight.
- 2. You will be asked questions about your general health, current treatment and any allergies or reaction to medications, seafood, or to previously done FFA / ICG tests.
- 3. We will ask you to sign a consent form if you are happy to proceed with the test. At the same time, your blood pressure and pulse will be checked. Your weight will be checked if you are having an ICG angiogram. Eye drops will be put into your eyes to make the pupils larger. This means your vision will be affected for some time afterwards **so it is not safe to drive and you should arrange to be accompanied home**.

- 4. The test is performed by injecting the fluorescein or ICG dyes, which have fluorescent properties (i.e. they glow under certain light), into a vein in your hand or arm.
  - **a.** Within 5-10 seconds the dye travels to the blood vessels in your eye.
  - **b.** You will be required to look into the device one eye at a time (like looking through a keyhole), followed by flashing of light to capture a series of required images as the dye circulates within the blood vessels of the eye.
  - **c.** The whole test lasts about 10-15 minutes (FFA) or about 20-45 minutes (ICG).
- 5. Following the test, we ask you to stay in the unit for about 30 minutes to be sure that you do not have any side effects and that you are alright to go home.

#### Is it all right to eat and drink before the test?

Yes, you can have a light food or drink before the test.

#### Can I take my medication before the test?

Yes, you can take any medications as usual on the day of the test.

#### Things you may notice:

- Your vision may be blurred as a result of the drops and some dazzle from the camera flash this usually settles down over 2 hours.
- As your pupils are dilated, you may be sensitive to the light, so it is advisable to wear sunglasses afterwards.
- The fluorescein dye is yellow and will give your skin a yellow tinge for a few hours following the injection. This is nothing to worry about.
- Your urine will be bright yellow for day or two as your body gets rid of the dye (the ICG dye does not have this effect).
- The most common side effect of ICG is stool (poo) discoloration.
- You may experience a short wave of nausea and occasional vomiting after the injection. This passes very quickly.

- You may develop a rash or itching following the test.
- There is a very small risk of a serious complication affecting your heart or circulation. However, we carry out at least 20-25 tests each week and are well prepared if any problems occur.

#### When these tests are not advised:

Patients with a previous history of allergic reactions (especially to iodine or shellfish), asthma, ischaemic heart disease and liver disease are not advised to have ICG angiography.

Importantly, ICG angiography, unlike FFA is not recommended in patients with renal (kidney) problems or those on dialysis.

#### When will I know the results?

One of the doctors will be discussing the results of the test at your next clinic appointment.

#### Important information to note:

- You will need to be able to sit forward at a machine for at least 20 minutes (with breaks in between).
- The whole appointment will last around 2 hours so please ensure you have arranged appropriate transport/parking.

#### Contacting us

If you have a minor eye problem, please seek advice from your GP, optician or pharmacist. If urgent, please attend Eye Casualty or call 111.

Eye Casualty (Reading):	Mon-Fri 8.30am to 5pm; Sat & Sun & bank holidays 9am-12.30pm; Closed Christmas Day and New Year's Day.
Eye Casualty: Prince Charles Eye Unit (Windsor):	Mon-Fri 8.30am to 5pm; Sat 8.30am- 12.30pm; Closed Sun & bank holidays.
Dorrell Ward (Reading):	0118 322 7172 (24 hours a day)
Eye Day Unit (Reading):	0118 322 7123 (Mon-Fri 7am to 6pm)
Eye Day Unit (PCEU Windsor)	01753 636496 Mon-Fri 7am to 6pm)

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## Please ask if you need this information in another language or format.

RBFT Ophthalmology, June 2025 Next review due: June 2027