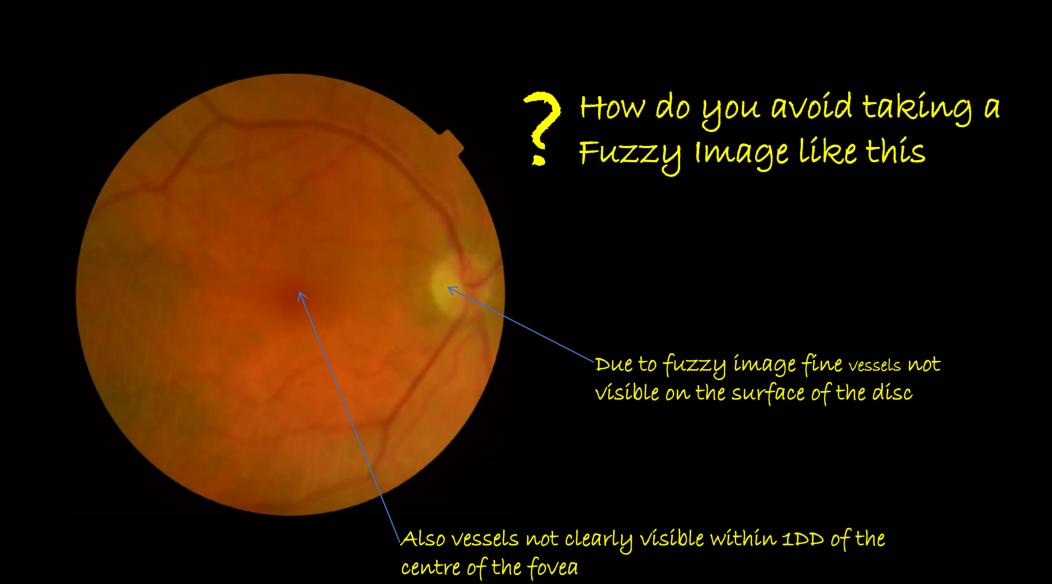
## Diabetic Retinal Screening Photography

Tips on how to take digital retinal images to NHS National Standards

Nicholas Barclay

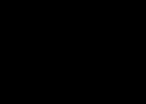
Senior Screener Grader with the Surrey NHS Diabetic Retinopathy Screening Programme



? How do you avoid eye lashes

Due to eye lashes vessels not clearly visible within 1DD of the centre of the fovea

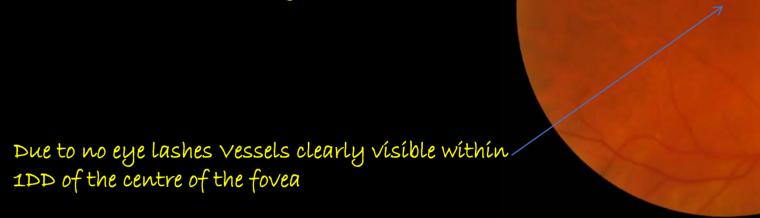
## · Check image during and afterwards in large Try to adjust focussing Move slighty to the side of the screen target. Vessels now clearly visible within IDD of the





centre of the fovea-

- Time your shot Make knock sound then press shutter
- · Or get patient to hold eyelid up



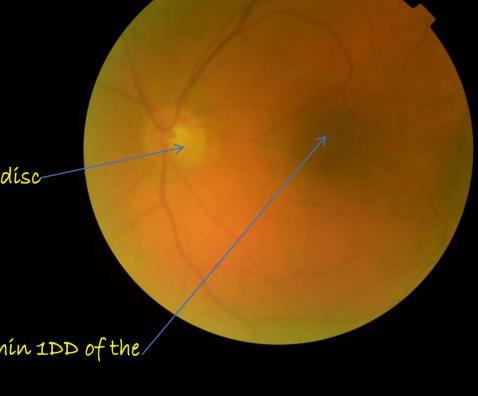
How do you avoid dark images

Due to dark image fine vessels not visible on the surface of the disc

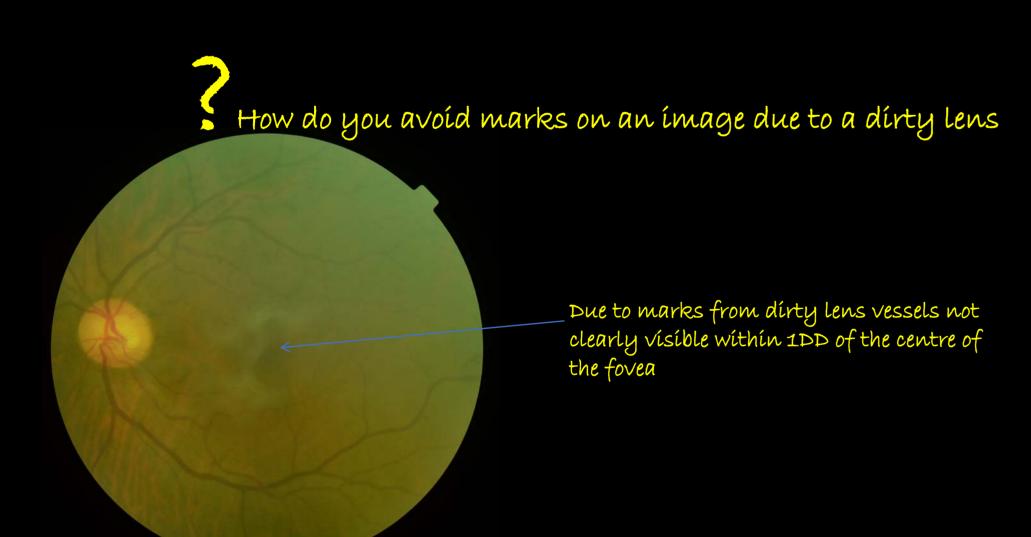
Also vessels not clearly visible within IDD of the centre of the fovea

- · use extra flash,
- Allow longer for dílatíon,
  Use small pupil setting
  If these do not work instill phenylephrine

Fine vessels now visible on the surface of the disc



Vessels now clearly visible within 1DD of the/ centre of the fovea

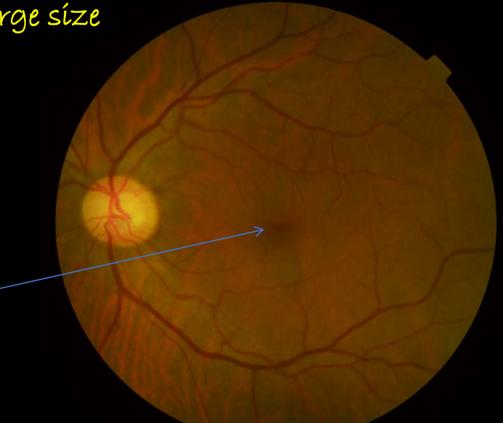


How to avoid taking an inadequate Image that does not meet



· Check images for dirty marks during and at end of photography in large size
Clean lens immediately

Retake images



Due to cleaning of the lens Vessels now clearly visible within 1DD of the centre of the fovea



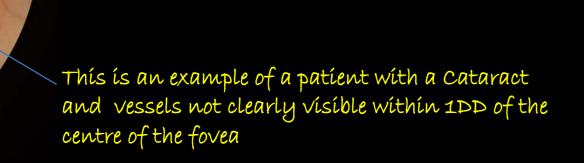
- Give clear explanation so patient looks in the correct direction.
- · Check images during and at end of
- Photography
  Retake images where needed,
  Use a different system when looking at the light doesn't work eg look at my ears, look at my voice etc...

Due to the whole optic disc being over 2DD from the edge this image does now meet NHS National Screening Standards



How to avoid inadequate images due to conditions like

Cataracts, Keratopathy and Asteroid Hyalosis



Check images carefully in large view and
Where needed take a central shot.



Due to taking a central shot even though there is a Cataract, the Vessels are now clearly visible within 1DD of the centre of the fovea