Pupillary Defects

Argyll Robertson, Marcus Gunn and Adie · the key is the response to light and to accommodation

AR Argyll Robertson

- no response to light but yes to accommodation (bilateral)
- neurosyphilis, also diabetes

MG Marcus Gunn (RAPD)

- swinging flashlight: the pupil dilates when lit
- optic neuritis, optic nerve or retinal disease

Ad Adie tonic pupil

- dilated, slow response to accommodation
- benign, young woman

No light, yes near
Argyll Robertson (neurosyphilis)

Paradoxical dilation
Marcus Gunn (optic neuritis)

Tonic mydriasis
Adie pupil (young woman, areflexia)

Light and accommodation tell the three apart · Marcus Gunn is tested with the swinging flashlight