



Eye Simulation Application Version 1.5

effects of disabling one or more of the 12 eye muscles and one or more of the 6 cranial nerves. Eye motion will change with pathology of the eye muscles and cranial nerves and will affect eye motion, pupillary simulator, animated demonstrations and patient cases at the end of the simulation.

See the eyes. You can download [Shockwave](#) from Macromedia.

Muscle Settings

Right Eye	Left Eye
<input checked="" type="checkbox"/> Superior rectus	<input checked="" type="checkbox"/> Superior rectus
<input checked="" type="checkbox"/> Inferior rectus	<input checked="" type="checkbox"/> Inferior rectus
<input checked="" type="checkbox"/> Medial rectus	<input checked="" type="checkbox"/> Medial rectus
<input checked="" type="checkbox"/> Lateral rectus	<input checked="" type="checkbox"/> Lateral rectus
<input checked="" type="checkbox"/> Superior oblique	<input checked="" type="checkbox"/> Superior oblique
<input checked="" type="checkbox"/> Inferior oblique	<input checked="" type="checkbox"/> Inferior oblique

Cranial Nerve Settings

Right Eye	Left Eye
<input checked="" type="checkbox"/> CN III	<input checked="" type="checkbox"/> CN III
<input checked="" type="checkbox"/> CN IV	<input checked="" type="checkbox"/> CN IV
<input checked="" type="checkbox"/> CN VI	<input checked="" type="checkbox"/> CN VI

Enable Ptosis

Check boxes to enable muscles and cranial nerves

Quiz Mode EyeTheory Credits

Motility made easy

WEB REVIEW

Here is a useful website to help with the tricky topic of Orthoptics / Binocular Vision. It can be very difficult to see enough patients with BV disorders to have the experience to be confident in what you are seeing during an examination. The simulator was set up to teach medical students at UC Davis Medical School about eye movements and their neurological significance.

Here we have a look at some websites of interest to practitioners, Radharc welcomes submissions for this section in the future.

The simulator can be set to display either abnormal muscle(s) or cranial nerve(s). When you move your mouse in front of the eyes as if using a pen torch to do a motility test, the eyes move accordingly.

The simulation shows the abnormal movement in the appropriate position of gaze as well as ptosis / pupil abnormality for III nerve palsies. This is a great place to brush up on this area, with useful self test questions. Use the address below-

<http://cim.ucdavis.edu/eyes/version15/eyesim.html>

The team at the macular pigment research group have developed a new website set to go live in September 2008, devoted to the topic of macular disease—www.sighrisk.com.

The site features free information on AMD, useful for both practitioners and the public.

Working in conjunction with mathematicians and vision scientists, they have developed a model to predict the risk of the onset of AMD in an individual and to display this on a graph. This takes into account lifestyle factors and clinical information to make the calculation. With the popularity of shows like “How long will you live?” etc. the public are getting more used to the idea of calculating risk this way. This service is intended to be a subscription based service to practices, as yet no details are available of costs. It is worth checking out the site to see what it offers.

How long will I see?

sighrisk

member's login

USERNAME

PASSWORD

Home

- Registration
- What is AMD?
- Risk Factors for AMD
- Calculating Risk

Who we are

- Dr John Nolan**
BSc PhD
Fellowship Scholar
Vision Scientist
- Graham O'Regan BSc**
(Applied Physics)
BSc BMSc FCOptom
Optometrist
- Stephen Beatty**
FRCS(Ed) FRCOphth
Consultant
Ophthalmic Surgeon

Welcome to sightrisk

Age-related macular degeneration (AMD) is the leading cause of blindness in industrialised countries, and much research is being carried out to identify its causes and predisposing risk factors. Researchers agree that risk for AMD can be reduced by taking appropriate and informed action in a timely manner.

- ▶ **What is AMD?**
- ▶ **Risk factors for AMD**
- ▶ **Calculating risk**
- ▶ **Register to use the AMD Risk Calculator**

For a full AMD risk analysis, consult your eyecare professional.

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