

## Information for Patients

# Orthoptic Exercises

## Why do I need to do eye exercises?

Your Orthoptist may prescribe eye exercises in order to help the coordination of your two eyes. If you have a weakness in the coordination of your eyes you may experience some of the following symptoms:

- Eye strain
- Headaches when reading (especially around your forehead and eyes)
- Difficulty concentrating on near work (computer, reading etc.)
- Intermittent double vision (Diplopia)
- Blurred Vision

## What treatment is available?

There are different types of eye exercises and your Orthoptist will prescribe the relevant exercise for you. Eye exercises can be practiced at home and best results are found when exercises are carried out regularly. You will be advised on the frequency and duration of your exercises and a follow up appointment will be arranged. All follow up appointments should be attended in order to check on your progress and any problems experienced.

If you have no further improvement in your symptoms following the prescribed exercises, your Orthoptist may recommend further tests with an Ophthalmologist.

## Relaxation

It is vital to ensure that you relax your eyes after carrying out the exercises to ensure the muscles are not over worked and do not go into spasm (this is very rare and occurs when the eye muscles are not fully relaxed). Relaxation can be as simple as closing your eyes for one or two minutes or looking out to the far distance to ensure your eye muscles are fully relaxed following the exercises.

It is important not to carry out the exercises for a longer period than specified by your Orthoptist.

## Types of Eye Exercises

These are basic instructions which should be followed. Your Orthoptist may tailor these to your individual needs.

### Smooth Convergence

This exercise is usually done with a pen or a target on a lollipop stick which your Orthoptist will provide.

1. Ensuring your head is straight and still; begin with the target held at arm's length. Focus on the target ensuring it is clear and single.
2. Gradually move the target towards your nose ensuring you continue to focus on the target whilst single vision is maintained.
3. At the point at which the target becomes double, stop moving the target, but continue to focus on it. Do not look away.
4. Using your eye muscles try to force the two images together to make one single image. Ensure that you keep both eyes open and focused on the image.
5. If single vision is achieved continue to move the target closer towards your nose, trying to maintain single vision at all times.
6. If you cannot achieve single vision, move the pen or target slightly further away and try again.
7. You may feel a lot of strain on your eyes at first. Some patients say that their symptoms initially get worse before they get better. This is normal and your Orthoptist will ensure you are correctly carrying out the exercises at your follow up appointment.

Try this exercise for \_\_\_\_\_ minutes at a time,  
\_\_\_\_\_ times per day.

**Do not forget to relax your eyes afterwards.**

## Dot Card

Your dot card will be provided by your Orthoptist.



1. Bend the card slightly lengthways along the central crease, so it forms a wide V shape. Hold one end of the card at the tip of your nose, pointing slightly downwards.
2. Look along the line at the furthest dot and try to make your eyes see this as one dot (singly) by gently using your eye muscles to pull the eyes inwards.
3. Once you see the furthest dot singly, the nearer dots should appear double and they will fan out towards you. This is normal.
4. Maintain the furthest dot as one single image for a few seconds then look at the next dot closer to you. Once you see this nearer dot as one single image, hold and maintain for a few seconds.
5. Continue up the line of dots ensuring which ever dot you are focusing on is maintained as a single dot.
6. If you are not able to make the dot single go back to the previous dot and try again.

If you can only get a short way down the dot card but no further, keep practising.

Try this exercise for \_\_\_\_\_ minutes at a time,

\_\_\_\_\_ times per day.

**Do not forget to relax your eyes afterwards.**

## Stereograms

Your stereogram will be provided by your Orthoptist. Stereograms may be used to improve the fine coordination of your eyes. A stereogram has two incomplete images, which when joined will make one complete image. This may be seen in 3D, depending on which stereogram is used.

You will usually start with the simplest stereogram, which has two incomplete cats on it. You may progress to more detailed cards once the cat card is easily achieved if necessary.

## How to do the Stereogram exercise



1. Hold the cat card at arm's length at eye level.
2. Then hold a pen half way between the card and your face.
3. Concentrate on looking at the top of the pen. You must try and keep the pen as one single image.
4. Slowly move the pen towards you, looking at the pen constantly. Do not look directly at the card or the exercise will not work. You should be aware of both the incomplete cat images becoming double; therefore you should be aware of four images.

5. Continue to slowly move the pen towards you and the four images should merge into three. The middle image will appear complete if you are using the cat card or becoming 3D with the bucket or ring card.



6. Once the middle image is achieved try to make it as clear as possible. If you become very good at this exercise, you may be asked to do the exercise without using the pen.
7. After doing the exercise it is very important to relax your eyes, by looking into the distance, or by closing your eyes for a minute or so.

Try this exercise for \_\_\_\_\_ minutes at a time,  
\_\_\_\_\_ times per day.

**Do not forget to relax your eyes afterwards.**

## Appointment attendance

We are striving to reduce the number of missed appointments. It is vital that all appointments are attended. If you are unable to attend your appointment, or if you miss an appointment, please contact **(0161) 276 5533** Monday - Friday 8.30am - 5.00pm so that an alternative appointment can be arranged. Failure to attend may result in you or your child being discharged; your GP and referrer may be informed.

If you wish to speak to one of the Orthoptists, please telephone **(0161) 701 4882** **Monday - Friday** 8.00am - 6.00pm or **Saturday** 8.30am - 4.30pm. You can leave a message on the answer machine leaving your name and contact telephone number if there is no answer and someone will call you back as soon as possible.