**Tips for examining a baby**

- Try to carry out as much of the examination as possible without touching the baby. Children often resist having their eyes held open, for example.
- Have many toys available. For each new toy, the baby will momentarily hold their eyes steady, allowing a quick examination. If available, use toys which are bright and can flash on and off. A good rule to remember is one toy, one look.
- Don’t be embarrassed about making funny noises! These help to attract the baby’s attention and to keep them interested and calm.
- In order to be able to do a more detailed examination in an infant, examine the child while he or she is being bottle fed or breast fed.

If you are struggling, ask the parent’s permission to wrap the baby. Place the baby on a blanket or sheet, hold the arms to the side and the legs straight, and wrap the blanket around the body and arms (Figure 3). Ask the parent to hold the baby. Either the parent or a helper can then carefully open one eye at a time for the examination by gently holding the eyelids apart, without putting pressure on the eye. Remember that this may be very stressful for both the baby and the parent.

A direct ophthalmoscope, or simply an ophthalmoscope, is a hand-held optical instrument used to inspect the fundus or back of the eye.

The ophthalmoscope (Figure 1) contains a handle with a rechargeable battery and a head, frequently detachable, that contains a bulb, a set of apertures for the light source, and a set of lenses. The view provided by the ophthalmoscope is monocular, non-stereoscopic (2D), narrow field (5°), and is magnified about 15 times.

Light from a bulb (Figure 2) is reflected at right angles and projected as a spot through the iris of the patient to illuminate the retina. This reflection is achieved using a mirror or prism. The illuminated retina is seen directly by the health professional (the user) through the iris of the patient.

The ophthalmoscope can be adjusted to suit the task at hand. A disc or wheel contains lenses of different powers and the required lens can be brought into the line of sight to correct any refractive error on the part of the patient (or of the user if she is not using her spectacles). The user looks just above the mirror or reflecting prism. Many ophthalmoscopes include a set of filters to cut out reflection from the cornea or to reduce the red glare from the retina. A disk or wheel allows the user to change the aperture of the light source. A small aperture is used for an undilated or small pupil. A regular aperture is used otherwise. A slit aperture is used as in a slit lamp. Finally, the brightness of the light can be adjusted by rotating the collar surrounding the on/off button.