Trachomatous trichiasis (TT) is the blinding consequence of infective trachoma. It occurs when in-turned eyelashes scrape the cornea, and it affects over eight million people worldwide. It is painful and has been likened to thorns scraping your eyes every time you blink. Lid rotation surgery, which restores the in-turned eyelashes to the proper position, is the mainstay of treatment for TT. Unfortunately, the results of surgery can be poor with many patients developing recurrent trichiasis. There is evidence to suggest that poor surgical technique is responsible for a significant proportion of the recurrent cases. Moreover, many trained surgeons do not operate frequently and most do not receive regular supervision.

The ICEH DVD contains step-by-step teaching videos of both BLTR and PLTR procedures. In addition, there is extensive supporting material, such as the assessment and counselling of patients, setting up an operating theatre, sterilising instruments and post-operative care.

The DVD will be distributed free of charge, in bulk, to National Trachoma Control programmes and non-governmental organisations for free distribution in training programmes. In addition, it can be obtained free of charge from TALC (Email info@talcuk.org or see page 30).

It is available in English and French, and was made possible thanks to the support of Band Aid via Fight For Sight, the Carter Center, the International Trachoma Initiative, and Stanton Media.

For this issue on instruments and consumables, we have specially adapted the following extract from the DVD. It covers using a steam autoclave to sterilise the instruments used in trachoma surgery.

Using a steam autoclave

The kerosene-burning steam-pressure autoclave (Figure 1) is widely available in trachoma endemic regions. If you use a different model of autoclave you must read and carefully follow the instructions.

• You should use the autoclave in a clear area. Place the items to be sterilised on a clean table or shelf nearby.
• Pour water (ideally, distilled or demineralised water) into the autoclave up to the level of the top of the tripod stand inside (1).
• Load the drum with the items to be sterilised:
  – All jointed instruments should be placed in the opened or unlocked position.
  – Sharp edges must be protected by gauze or tubing to prevent dulling.
  – The drum should not be packed tightly.
• You must check the drum to ensure that the vents are open. Close the drum lid and lock the vent collar in the open position (2).
• Place the drum in the autoclave and close the autoclave lid by rotating it
CONTINUING PROFESSIONAL DEVELOPMENT

CPD: Test yourself

These continuing professional development (CPD) Test Yourself questions are based on the contents of this issue. You can use the questions to test your own understanding; we hope that you will also discuss them with your colleagues and other members of the eye care team. The questions have been developed in association with the International Council of Ophthalmology (ICO) and are based on the style of the ICO Advanced Examination: www.icoexams.org/exams/advanced

1. Think about purchasing instruments and consumables. Which of the following statements are true, and which are false? [True/False]
   a. Pre-shipment inspections are expensive, but they are worth the cost. [ ]
   b. Your supplier is usually responsible for inland transportation. [ ]
   c. When obtaining a quote, always approach more than one supplier. [ ]
   d. The Incoterm® CIP means that you are responsible for insurance and clearance charges. [ ]

2. Think about instrument care and maintenance. Which of the following statements are true, and which are false? [True/False]
   a. Instruments must be cleaned after each use and lubricated once a week. [ ]
   b. Using distilled water to clean instruments reduces the risk of corrosion and chemical damage. [ ]
   c. Regular inspection is important, but it is not necessary to do so under magnification. [ ]
   d. It is important to keep records of any instruments requiring repair or replacement. [ ]

3. Think about supplies management. Which of the following statements are true, and which are false? [True/False]
   a. You don’t have to make a large order to take advantage of bulk discounts. [ ]
   b. The people who manage supplies are usually specially trained and enjoy working with complex inventory systems. [ ]
   c. If an eye unit uses between 20 and 30 sutures a month, and they take between 6 and 8 weeks to arrive, you should keep a minimum 40 sutures in stock (and order more whenever the stock reaches 40). [ ]
   d. The “first in, first out” approach means that you must use the items with the shortest shelf life first. [ ]

4. Think about performing Schirmer’s test and about sharpening and adjusting surgical scissors. Which of the following are true and which are false? [True/False]
   a. When performing Schirmer’s test, patients must close their eyes as tightly as possible. [ ]
   b. Performing Schirmer’s test soon after instilling any eye drops will give a false result. [ ]
   c. When sharpening surgical scissors, don’t be afraid to apply pressure with a magnification wherever possible to help you identify instruments that must be repaired or serviced. [ ]
   d. When sharpening surgical scissors, cover the full length of the cutting surface with each stroke. [ ]

ANSWERS

1. a. False.
   b. False.
   c. True.
   d. True.

2. a. True.
   b. True.
   c. False.
   d. True.

3. a. False.
   b. True.
   c. True.
   d. False.

4. a. True.
   b. False.
   c. True.
   d. False.

Test Yourself questions are from the ICO Advanced Examination: www.icoexams.org/exams/advanced

Safety

There are some crucial safety points that you must always follow when using an autoclave.

- You should be well trained in autoclave usage and you should be trained and tested periodically for proficiency in the operation of an autoclave. There is a danger of transmitting HIV, hepatitis viruses, or other infectious diseases if the surgical materials are not properly sterilised. There is also a danger of an autoclave failing; for example, if the pressure does not rise and there is continual escape of steam.

- Always ensure there is the correct amount of water in the autoclave before use. You must not open the autoclave until the pressure reaches zero.

- Do not use an autoclave if parts are malfunctioning; for example, if the pressure does not rise and there is continual escape of steam.

- Do not use if you notice wear and tear on the lid gasket or notice leaky taps and valves.