

INSTRUCTIONS

PHARAOH'S COLLAR

This compensating filter is specifically designed for digital arteriography involving the neck with and without subtraction. It fills the hollow around the neck which becomes an homogenous cylinder, removing all halation responsible for the degradation of digital subtraction. Rotation becomes very safe, permitting multiple views with a 3D effect and a better demonstration of bifurcations and lesions. Thus, radiation and volume of opaque substance are kept at an optimum risk / benefit ratio.

WARNINGS

1. This set of filters is not suitable for infants or atypical adults.
2. The material is a polyurethane. It is not allergenic to the skin. Nonetheless, care must be taken when it is applied to patients having a skin sensitivity.
3. The filters are fragile. They must not be hit, dropped, or bent abruptly. In particular, do not stretch or pull apart the thin edge with fingernails. This polyurethane is inflammable and the vapors are toxic. It may turn yellowish with time.

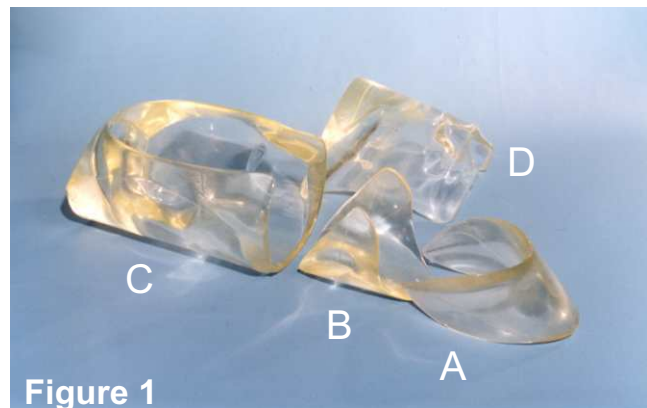
DESCRIPTION

The PHARAOH'S COLLAR consists of two transparent components, (**figure 1**): **A**) an *anterior* part marked "A"; **B**) a *posterior* part marked "P".

The rest of the PHARAOH is composed of **C**) a *bonnet*; **D**) a *large mask* and **E**) an *eye mask "LOUP"* (not shown).

All junctions are wedged to facilitate adaptation to normal variations in morphology.

The material has the same absorption as water. Disinfection is done with alcohol or Zephiran®. The use of a shower cap and of plastic wrapping is recommended for hygienic purposes.



PREPARATION

To become acquainted with the PHARAOH'S ECK filter, we suggest you examine its parts under fluoroscopy before you start using it. The images help foresee the effect on the anatomy. *It is important that technologists practice installation on each other before using the collar with patients.* This shortens preparation time, and improves future examinations. Remove any compensating filters already present in the collimator.

INSTALLATION of the COLLAR

The neck varies in length and size. Fortunately, the cervical parts fit everyone automatically, along an oblique and wedged junction.. With the patient sitting, first place the *posterior* filter "P" (**figure 2**), pressing it against the shoulders. Then place the *anterior* filter "A", raising it against the jaw (**figure 3**) and overlapping the posterior one evenly on each side. Fix the two filters together with adhesive tape.



Figure 2



Figure 3

EXAMINATIONS

Many arteriograms may be performed with these neck components, such as the aortic arch, the carotids, the vertebral and the posterior cerebral arteries. They may be done in P.A., lateral and oblique with fixed diaphragms.

But it is for **ROTATION** that this collar is particularly suited, as it removes the risks of halation and allows multiple views over an arc greater than 90°, with a single injection.

However, the complete PHARAOH and the PIVOTING FILTERS are necessary for rotation on the full middle and anterior cerebral arteries.

VERIFICATION

Fluoroscopy and/or films prior to the injection are important for high quality imaging, since an immediate correction will insure better results later.

MISCELLANEOUS

Please consult the accompanying video "SPECIAL PROCEDURES" and the educational brochure "THE OCTOSTOP® FILTERS" by Dr Jean A. Vézina M.D., president and medical advisor of OCTOSTOP® Inc.

WARNING

Must be used only by qualified personnel, according to appropriate procedures, and under the responsibility of a physician. OCTOSTOP® Inc. and its personnel do not assume any liability regarding the use, indications, consequences, or any situation directly or indirectly related to its products.