# IMPROVEMENT OF THE MANAGEMENT AND THE TRACEABILITY OF OPTICS IN STERILIZATION

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## INTRODUCTION:

Optics are medical devices used in many surgical specialities. We notice an incomprehension of the optics inventory by our customer and by the sterilization staff. We check the adequacy of the optics used in conjunction with their identification in our traceability software.

**GOAL: OPTIMIZE THE MANAGEMENT OF OPTICS**

## METHOD:

**In the surgical unit:**

- Inventory of optics according to speciality and angulation was realized by surgical's staff.

**In the sterilization:**

- Each optic sterilized was crossed-referenced with the speciality , the angulation, the reference, the serial number and the laboratory, by the pharmacist or the resident.
- Informations are compared to the inventory transmitted by the surgical unit and with the information saved in the traceability software.
- Training of staff sterilization about the management of optics and evaluation one month later through a questionnaire of six questions were realized.

## RESULTS:

Current situation :

| | Number of optics listed |
|---|---|
| Inventory by the surgical unit | 22 |
| Optics taken care by the sterilization | 25 |
| Optics saved in our software | 28 |

Informations from the software :

| | Number of optics with information (N =25) |
|---|---|
| Serial numbers | 0 (0%) |
| References | 0 (0%) |
| Surgical speciality | 19 ( 76%) |
| Angulation | 16 (64%) |

Knowledge of the sterilization staff :

| Questions | Good answers (N= 7) |
|---|---|
| Which is the mode of wash recommended for an optics ? | 7 (100%) *=> Washer disinfector* |
| Which are 2 controls at the level of the conditioning to be made to verify the good state of the optics ? | 3 (42,9%) *=> Look through optics towards a light source : the picture must be clear* |
| I see a diffuse image when I look through an optics, which is the cause | 7 (100%) *=> The lens is broken* |
| At which moment the pate to polish must be used ? | 7 (100%) *=> Before the wash* |
| What is the frequency of sterilization of an optics for an optimal life cycle ? | 7 (100%) *=> An autoclave a day* |
| As a general rule we use in coelioscopy of the short optics of small diameters ? | 5 (71,4%) *=> Wrong* |

## DISCUSSION:

This study has afforded as the opportunity to analyze the situation of our client's optic inventory.

**Corrections implemented:**

- We eliminated the unused optics from the software.
- Now, the optic devices were identified by their serial number.
- Following discussions held with our client, the following decision was taken: concerning all modifications, an information leaflet regarding the speciality, the angulation, the reference, the serial number, as well as the laboratory of the relevant optic device should be given to the sterilization staff.
- A second awareness program related to the quality checks that need to be performed to establish the condition of the optic devices, is planned.

## CONCLUSION :

An identification process enhanced by exhaustive informations, is essential for the good care of the optics devices during the sterilization process.