

Providing a closed-system transfer and administration device for chemoembolisation ensure safe use?

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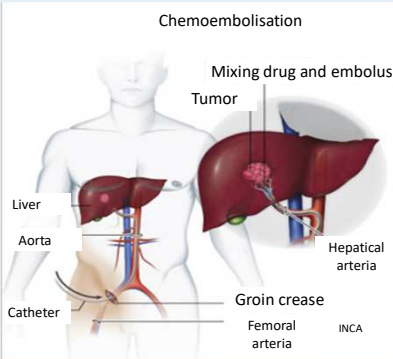
Introduction

The performance of hepatic chemoembolisation using a mixture of Idarubicin and Lipiodol in the operating room is an occasional procedure in our healthcare institution which may be a potential source of exposure to an anticancer agent for medical staff in both the pharmacy and the operating room. ensure safe use?

Objectives

In collaboration with the occupational health department, we wished to assess the exposure of medical staff to anticancer drugs during hepatic chemoembolisation (one administration per month) and the use of the mixing and administration kit for the medical device dedicated to this use, the Vectorio^R kit marketed by the Guerbet laboratory.

Materials and methods:



At the pharmacy, knowledge assessment using an evaluation grid of the pharmacy staff :

- Indication for chemotherapy: Criterion 1
- Condition of handling of the medical device, audit: Criterion 2
- Use in the operating room by the doctor and nurses: Criterion 3

At the operating room :

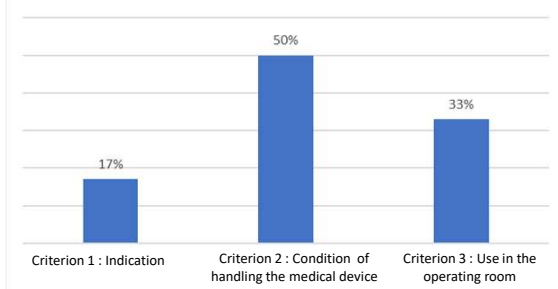
- Audit in real conditions of use of the medical device
- Assessment of the risk of exposure to the cytotoxic agent

Results

PHARMACY

Operating room

Pharmacy staff : Knowledge assesment



- Major deviation observed: Disconnection of the syringe from the closed system, transfer of the content of the syringe into a 2nd device, dispersion of a drop of the Idarubicin / Lipiodol mixture in the operating environment of the operating room, device and work surface

- Consequence: Direct exposure of all operating room staff: doctor, nurses, nursing assistants



Discussion



3 types of improvement proposed in the context of the use of the chemoembolization kit and securing the circuit linked to the cytotoxic agent:

Pharmacy

- Creation of an educational support in video format available to the pharmacy staff
- Authorization to handle the chemoembolization kit

Operating room

Doctor

Revalidation of the kit use protocol

Nurses

Chemiosensibilization of the operating room staff

Conclusion

This study highlights the importance of the pharmacist's educational role in supporting the use of specific medical devices and in preventing the risk of exposure to high-risk drugs such as cytotoxic agents, both within the pharmacy and in the various hospital departments.