



# ESOP's yellow hand: are the pharmaceutical laboratories really are devoting all the necessary?

Dr Ferdinand BADIBOUIDI  
Pharmacien Praticien Hospitalier  
Unité de Pharmacie Clinique Oncologique  
GHPSO Senlis - Creil

ECOP 5 – Hamburg, Thursday 30<sup>th</sup> of June 2022

Badibouidi F., Can-Köse L., Jimenez A., Tran DL.



# BACKGROUND:

- Anticancer drugs: carcinogenic, mutagenic and/ or reproductive toxicity

👉 handled with caution.

🇪🇺 ESOP (European Society of Oncology Pharmacy) recommendations:

👉 "YELLOW HAND" logo indicating the danger of cytotoxic products and the precautions to be taken for the transport of cytotoxic drugs .



# OBJECTIVE

 The aim of our work was to assess:

- Pharmaceutical companies  ESOP's yellow hand during the transport of anticancer drugs?



# MATERIAL AND METHOD

- The prospective data collection was carried out between August 2020 and November 2020. To delivery of cancer drugs:
  - ✚ ESOP “yellow hand” logo check or other “cancer drugs” notification,
  - ✚ Registry: Date, name of pharmaceutical laboratory and cancer drug, ESOP “yellow hand” logo or other logo,
  - ✚ Data processing in an Excel file for analysis.
- From January 2021 to December 2021: complete our work by the telephone contact with laboratories that do not use ESOP's yellow hand.

# RESULTS

- 138 anti-cancer orders from 17 laboratories were received during our study.

- ✚ 2 groups of anticancer drugs:

- Cytotoxic anticancer requiring "anticancer" counter-label,
- Monoclonal antibodies that do not require counter-label.

- ✚ 2 laboratories (CELGENE, SANOFI) use ESOP's yellow hand,

- ✚ 8 laboratories have notified anticancer products by other logos,

- ✚ 4 laboratories do not notify "anticancer" on packaging.

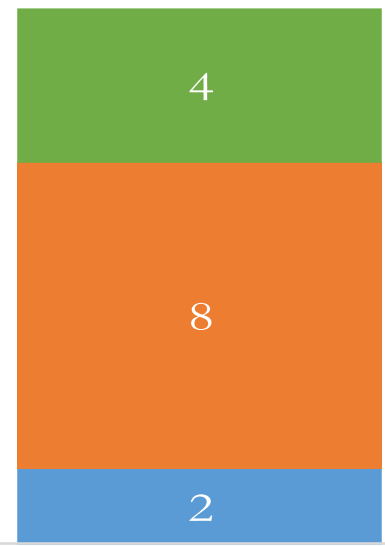


# RESULTS

- Laboratories do not notify "anticancer" on packaging
- Laboratories notified anticancer products by other logos
- Laboratories use ESOP's yellow hand



Monoclonal antibodies



Cytotoxic anticancer

**Picture 1: adherence by laboratories to ESOP's yellow hand**



# RESULTS

Laboratoires	Yellow Hand	Other	Comments
ACCORD	NO	YES	
BAXTER SA	NO	NO	Cyclophosphamid
CELGENE	YES		
FRESENIUS KABI	NO	YES	
JANSSEN	NO	YES	
LILLY	NO	YES	
MEDAC	NO	NO	Mitomycin medac 1 mg/ml
MYLAN	NO	NO	Azacitidine/Bendamustine
PFZIER	NO	YES	
PIERRE FABRE	NO	YES	



# RESULTS

Laboratoires	Yellow Hand	Other	Comments
PHARMA MAR	NO	NO	Trabectedine, Lurbinectedin
SANDOZ	NO	YES	Gemcitabin
SANOFI	YES		Cabazitaxel
TEVA	NO	YES	
BMS	NO	NO	Nivolumab (MAB)
MERCK SERONO	NO	NO	Cetuximab (MAB)
MSD	NO	NO	Pembrolizumab (MAB)
ROCHE	NO	NO	Rituximab/Trastuzumab/Pertuzumab (MAB)
SANDOZ	NO	NO	Rituximab (MAB)
SANOFI	YES		Aflibercept (MAB)



# RESULTS



Picture 1: "Anti-cancer products" notification by ESOP's yellow hand



Picture 2: "Cancer products" notification by another logo

# RESULTS



Picture 3: "Cancer products" notification by another logo

# RESULTS

- To complete our work, we called the labs that do not use ESOP's yellow hand.
- One pharmaceutical company did not respond,
- Others do not know or prefer to use their own logo,
- In our work, the Baxter laboratory didn't use logo yellow hand or other logo.

Their new packing after our call contains a logo "anti-cancer".

# DISCUSSION / CONCLUSION

- ESOP's Yellow hand is little used by pharmaceutical companies:
- ✚ ESOP must disseminate information about the yellow hand to the laboratories ,
- ✚ Make the yellow hand mandatory at European level,
- ✚ Disseminate information about the yellow hand in hospitals: pharmacists, technicians, storekeepers and nurses.

# DISCUSSION / CONCLUSION

Use the yellow hand in hospitals: transport of cancer drugs, precautions to be taken for handled of cytotoxic drugs.



**Picture 5:** ESOP's yellow hand on the transport box of cancer drugs prepared by the Creil pharmacy

**Picture 6:** ESOP's yellow hand when dispensing oral chemotherapy (Creil pharmacy)

## DISCUSSION / CONCLUSION

- This work allowed taking a picture on the use by pharmaceutical laboratories of the yellow hand "ESOP recommendation".



**THANK YOU**