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Section 3: Production and Compounding.

HAZARDOUS DRUGS: IMPACT OF MEASURES FOR SAFE HANDLING

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BACKGROUND AND IMPORTANCE



The 2016 National Institute for Occupational Safety and Health (NIOSH) update classified hazardous drugs (HD) with risk for the healthcare staff in **3 lists**.



NIOSH CRITERIA:

- ✓ Carcinogenicity,
- ✓ Teratogenicity
- ✓ Reproductive toxicity
- ✓ Organ toxicity at low doses, Genotoxicity.
- ✓ Drugs that mimic existing drugs

AIMS AND OBJECTIVES

- To analyse the HD included in hospital formulary and the safe handling measures implemented.
- Quantifying the prescriptions of HD and the pharmaceutical interventions required.

MATERIALS AND METHODS

PROSPECTIVE STUDY (January-June 2019). Data collection:

- ❖ Hazardous drug.
- ❖ Classification group.
- ❖ Number of inpatient prescriptions.
- ❖ Number of pharmaceutical interventions.

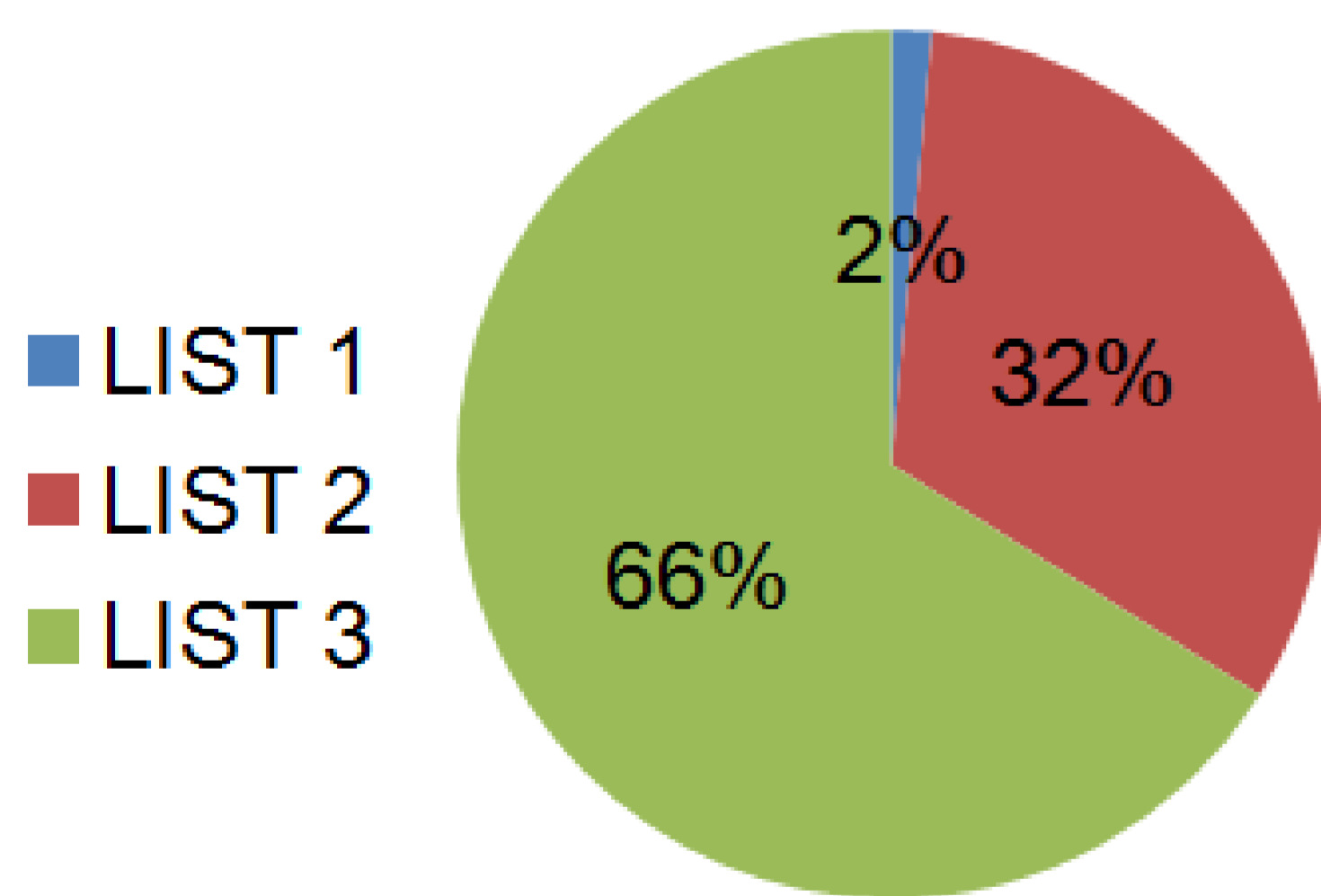


NIOSH LIST
LIST 1: Antineoplastic drugs
LIST 2: Non-antineoplastic drugs
LIST 3: Drugs with reproductive risk

The hospital formulary was revised to classify HD according to risk level. Antineoplastic IV drugs were excluded. A safe work procedure was developed and Pharmacy procedures were revised.

RESULTS

HD PRESCRIPTIONS



PROSPECTIVE STUDY

130 days
4.093 prescriptions
229 pharmaceutical interventions proposing a better formulation



Hospital Formulary modification (5 new formulations purchased and 1 magistral formula created)



Changes in labeling, repackaging or preparation (10 medications)



Staff training (Personal Protective Equipment use)



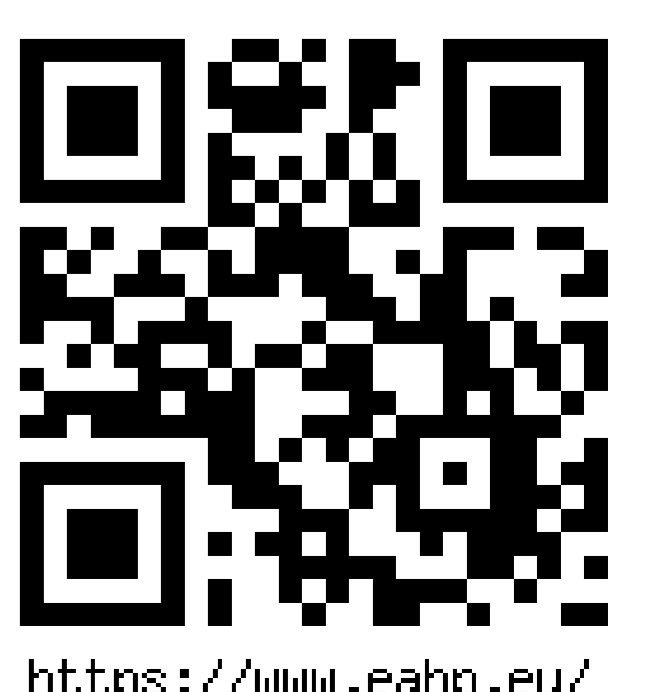
SAFETY PROGRAM MEASURES

HOSPITAL FORMULARY: There were **78 medications** involved in NIOSH lists: 29.5% of list 1, 38.5% of list 2 and 32% of list 3.

CONCLUSION AND RELEVANCE



There is a large amount of drugs classified like hazardous in the hospital. Most of the drug prescriptions belong to list 3 of NIOSH classification. An additional effort for Pharmacy Department is required. Working procedures should be revised about safe handling.



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