



A SAFE HANDLING HAZARDOUS DRUGS STRATEGY TO IMPROVE HEALTH WORKERS SAFETY: REDUCING EXPOSURE BY MEDICAL PRESCRIPTION REVIEW IN NURSING HOMES.

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Background and importance

The occupational risk due to the exposure to hazardous drugs (HDs) has been a mounting concern to healthcare professionals, including in nursing homes.

Objectives and aims

To study the impact of a strategy to improve HDs safe handling by procedures and pharmacist medication review.

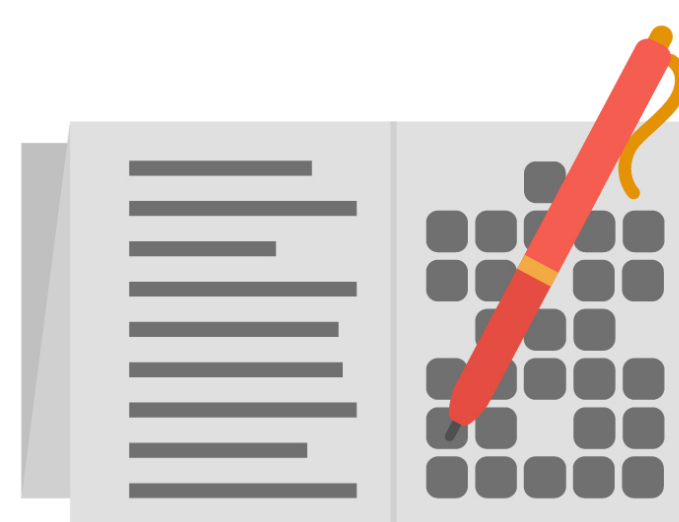
Materials and methods: Prospective, multicenter, pre-post intervention study.



25
nursing homes



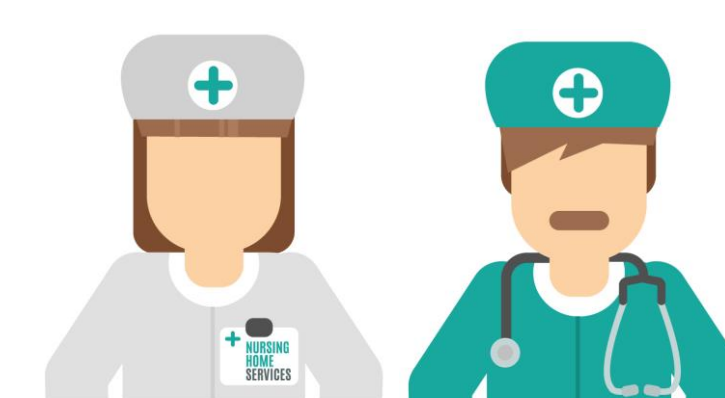
18
elderly day care centers



13
intelectual disabilities centers



2,500
healthcare professionals



7,501 users

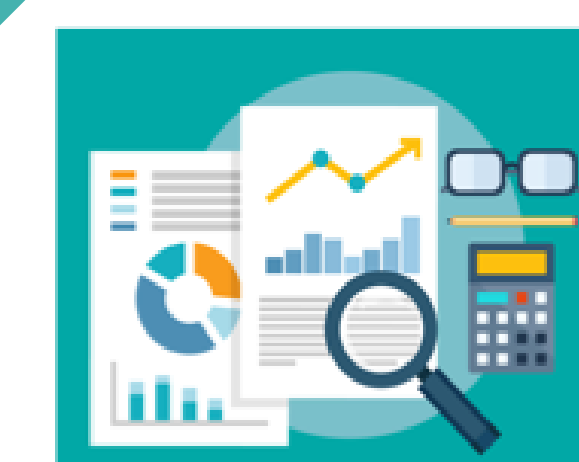
Pharmacist interventions:

Collaborating in HDs work procedures development

Training and educational programme

HD identification and medication review in order to withdraw, replace or reduce HD's handling

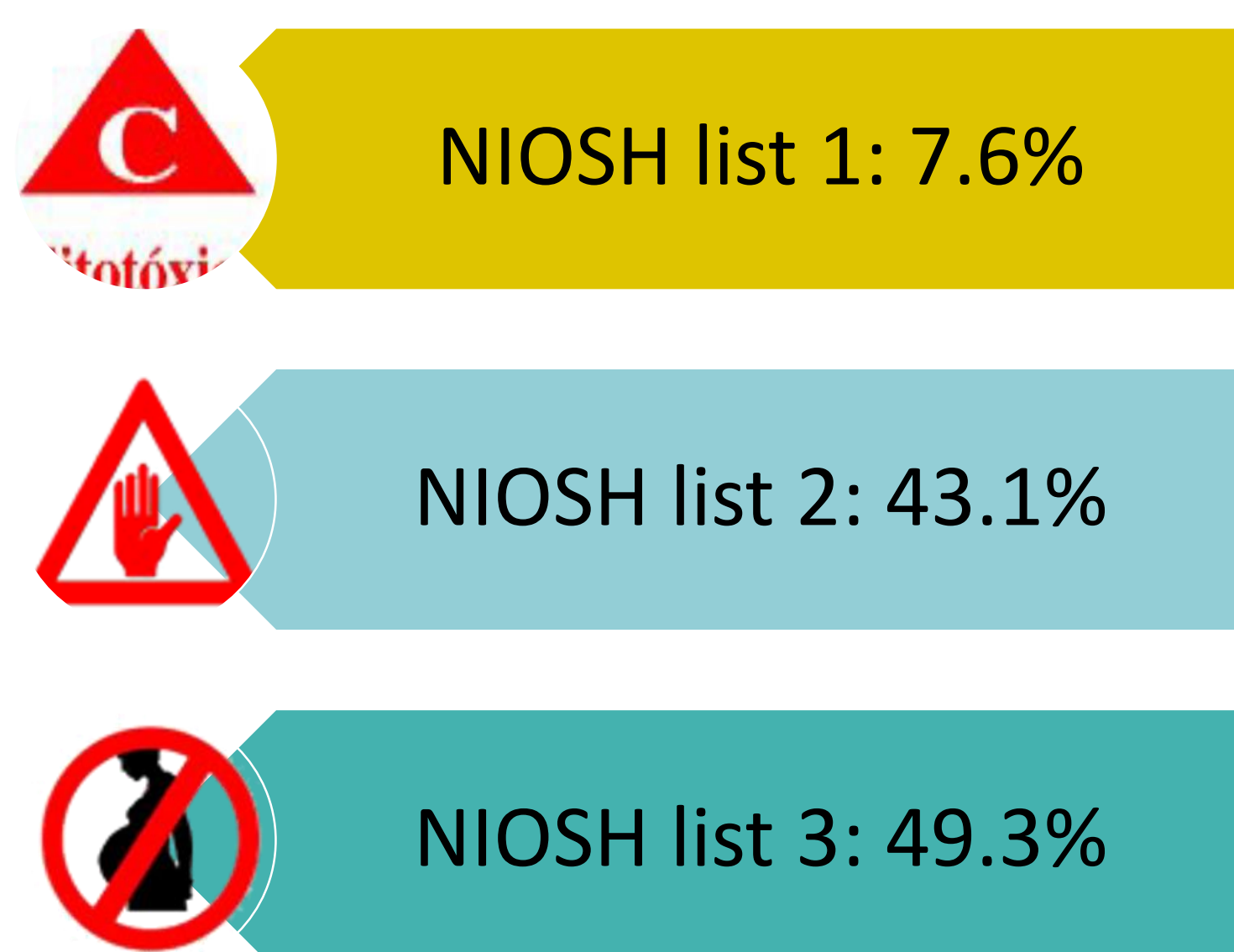
Calculate HD interventions acceptance



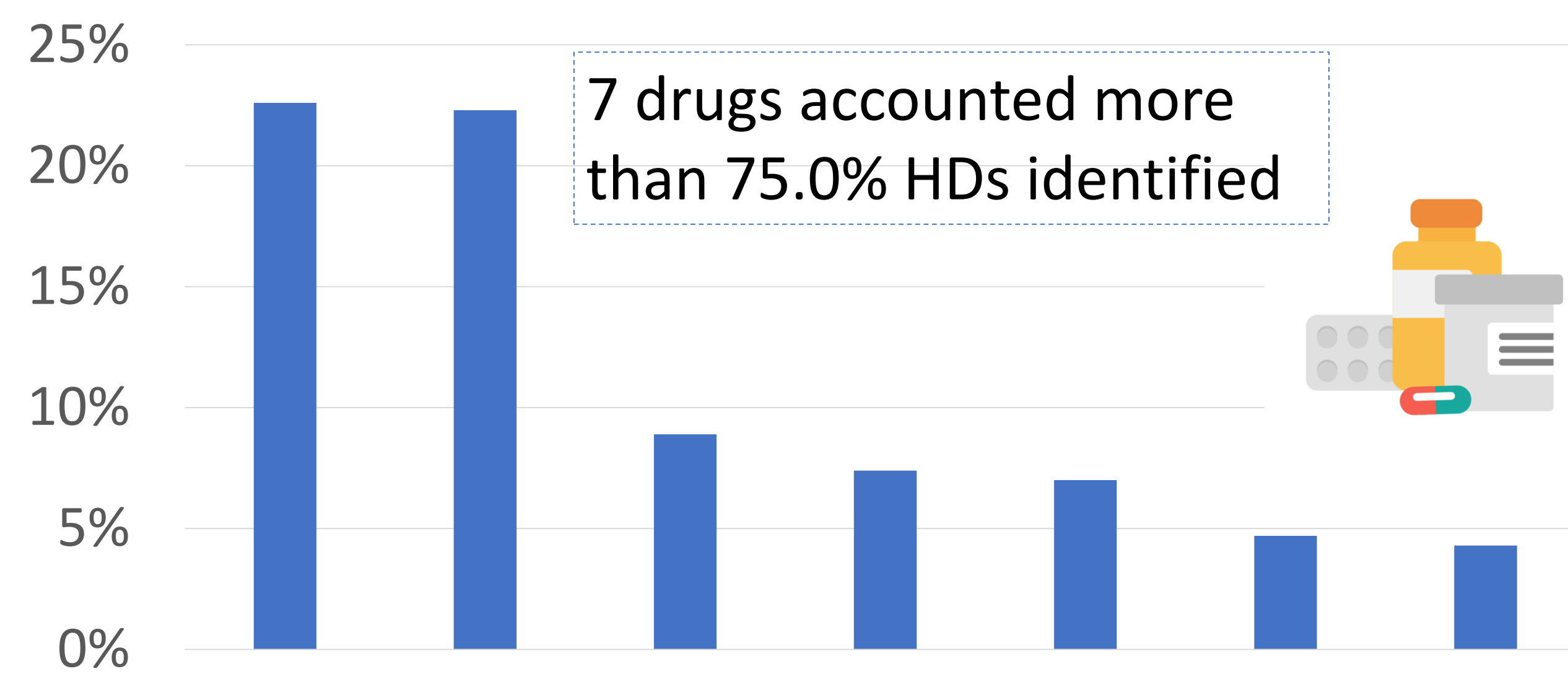
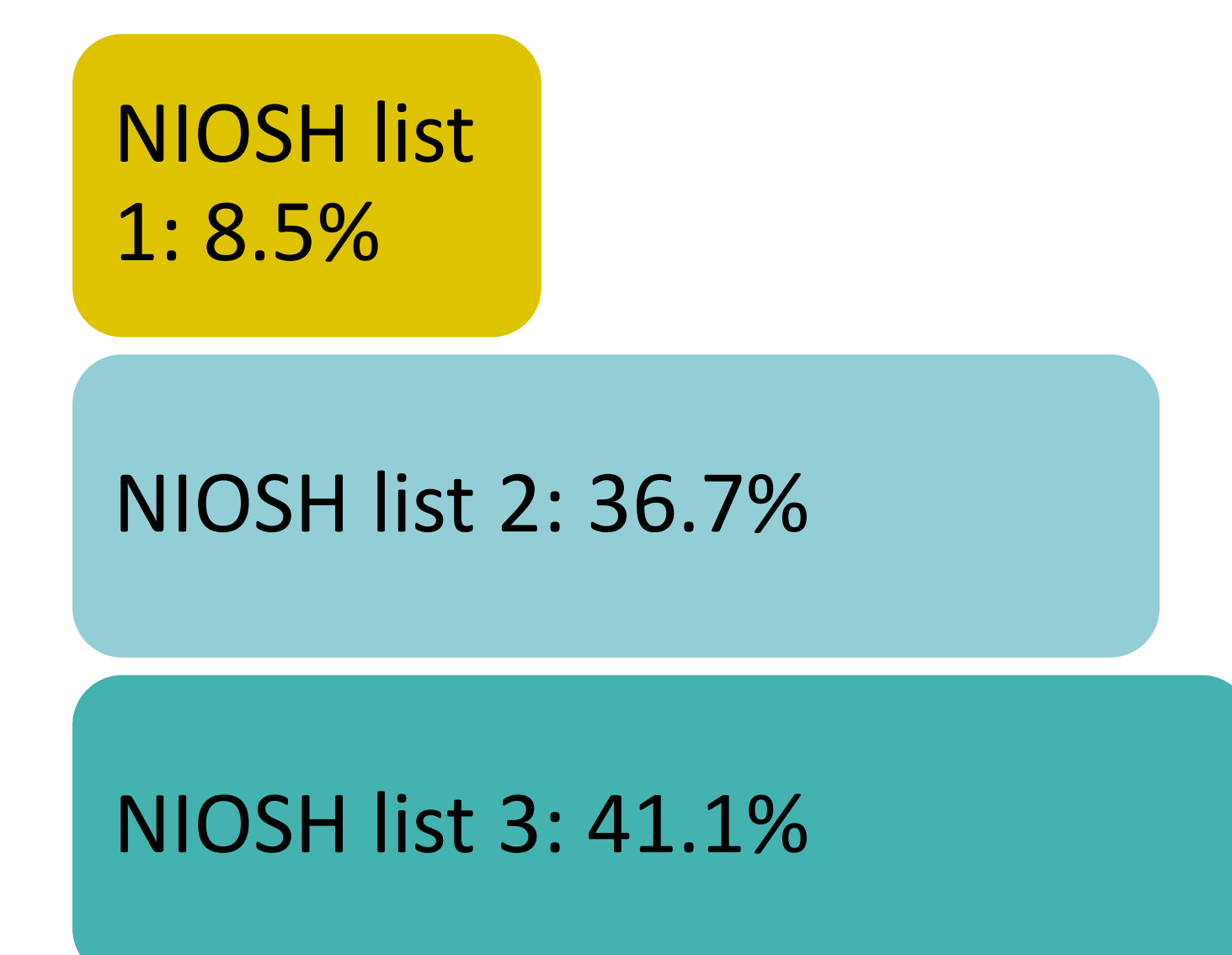
Results

58,656 lines of treatment; **Pre-intervention HDs: 2,732 (4.7%)** in **2,394** users

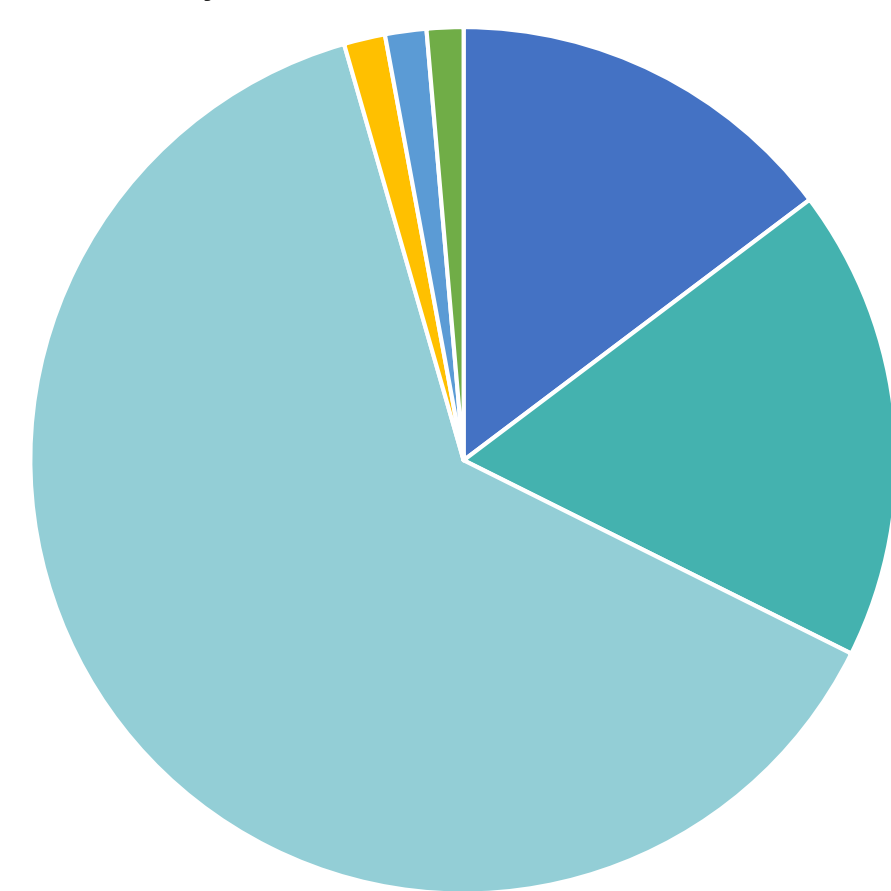
HD classification:



HD preparation-administration handling:



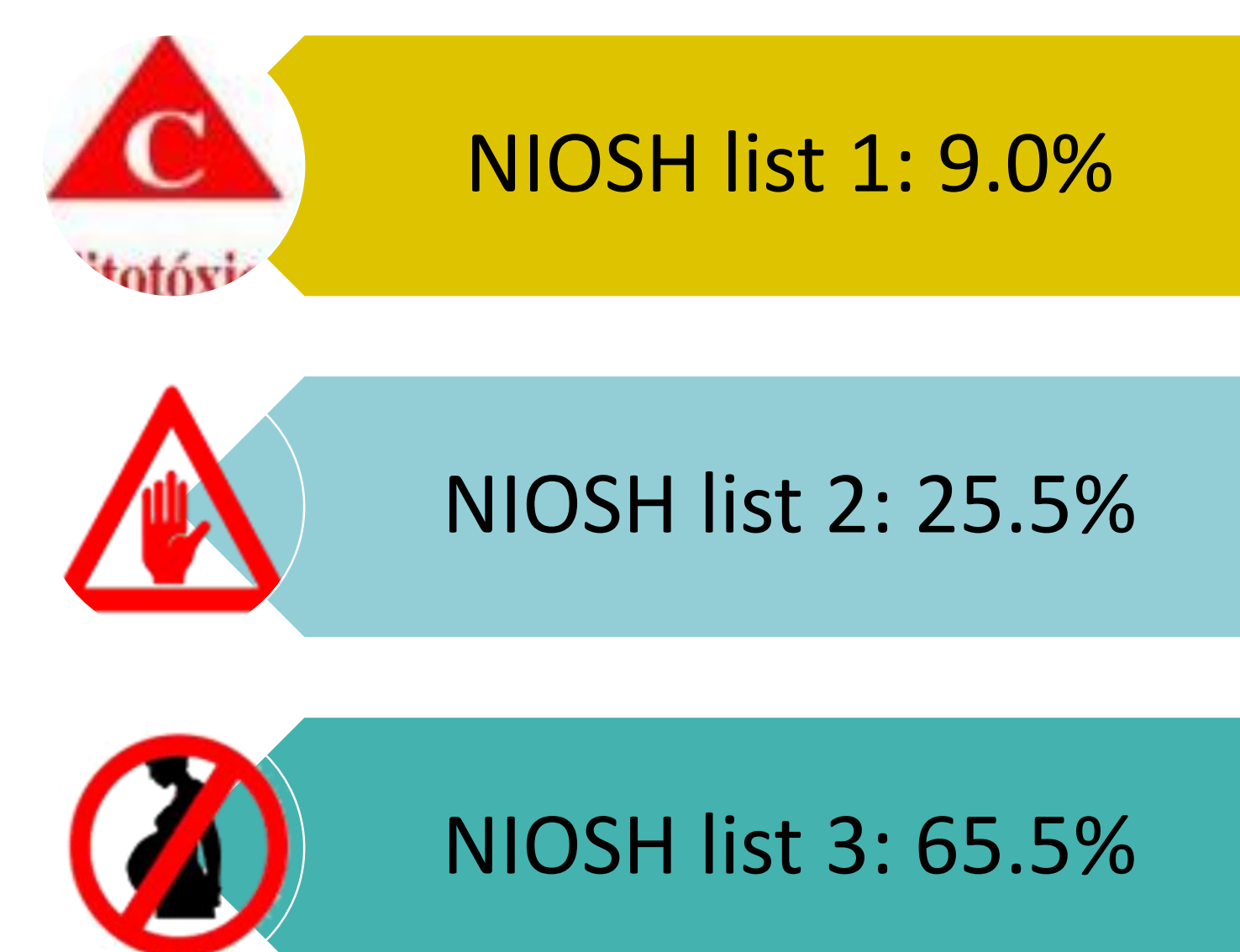
584 interventions; **42.0%** intervention acceptance



- withdraw for non-needed
- switch drug presentation
- optimize drug schedule
- replace for a non-HD
- optimize frequency
- switch drug form

29.6% HD reduction
83.0% risperidone and paliperidone no longer considered HDs since 2019
7.4% withdrawals
5.9% missing data
3.7% replace for a non-HD

Post-intervention HDs: 1,924 (3.3%)



Conclusion and relevance

The exclusion of risperidone and paliperidone has meant a very significant reduction of HDs in nursing homes. This particular medication review, supported by a standardized procedure, individual interventions and training, also contributed to the adequacy of HDs prescription.

The pharmacist is a key advisor in HDs safe handling strategies, also in nursing homes.

References: InfoMEP database. Available in: <http://infomep.insbt.es/> **KEYWORDS:** nursing home, hazardous drugs, medication review.

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