# NURSES PERCEIVED PROBLEMS WITH "HIGH-ALERT DRUGS": RESULTS FROM THE EUROPEAN INSTITUTE OF ONCOLOGY

# Poster n. GRP051

# P. Paochi<sup>1</sup>, E. Dossena<sup>2</sup>, A. lezzi<sup>1</sup>, L. la Pietra<sup>3</sup>, S. Mauri<sup>4</sup>, C. Patroni<sup>5</sup>, E. Omodeo Salè<sup>1</sup>

<sup>1</sup>Istituto Europeo di Oncologia, Pharmacy, Milano, Italy. <sup>2</sup>Istituto Europeo di Oncologia, Division of Medical Oncology, Milano, Italy. <sup>3</sup>Istituto Europeo di Oncologia, Medical Directorate, Milano, Italy. <sup>4</sup>Istituto Europeo di Oncologia, Division of Anaesthesiology and Intensive Care, Milano, Italy. <sup>5</sup>Istituto Europeo di Oncologia, Quality and accreditation, Milano, Italy.

#### **Objectives**

The increasing attention paid by patients to maintaining their own health and quality of life can certainly be linked to a significant increase in a knowledge of their rights. AIFA (Agenzia Italiana del Farmaco) has published a series of documents that aim to provide recommendations to support the management of drug therapy, in order to reduce the risk of accidental errors.

At the European Institute of Oncology (IEO) we decided to participate, in a concrete way, in the appreciation of the processes of prescribing, preparation and administration of high-alert drugs, starting with an assessment regarded as central: the perception of the operator, who is at the forefront of having the device device of the dev

## <u>Methods</u>

We defined а test 1) (Panel of 5 questions, which were designed to investigate nurses' knowledge and training regarding the handling of high-alert Questions drugs. evaluated what nurses consider to be high-risk medication,

investigating drug preparation sites, and what might represent hypothetical solutions to the definition of a common management procedure.

The first question asked the meaning of



Questions about high-risk drugs

		Hospital department
1)	What do ye	ou mean for High-Risk drug?
	Α	Drugs with similar packaging (look-alike)
	В	Drugs with similar name or sound
	С	Dangerous collateral effects for man
	D	Other
2)	Where do	you prepare a High-Risk drug?
	Α	On cart of therapies
	В	In infirmary
	С	Other
3)	Alone or w	vith all the therapy?
	Α	Alone
	В	With all the therapy
4)	Do you thi	nk that we can defined particular management procedures to reduce errors?
		_
	Α	No
	В	Yes If yes, what?

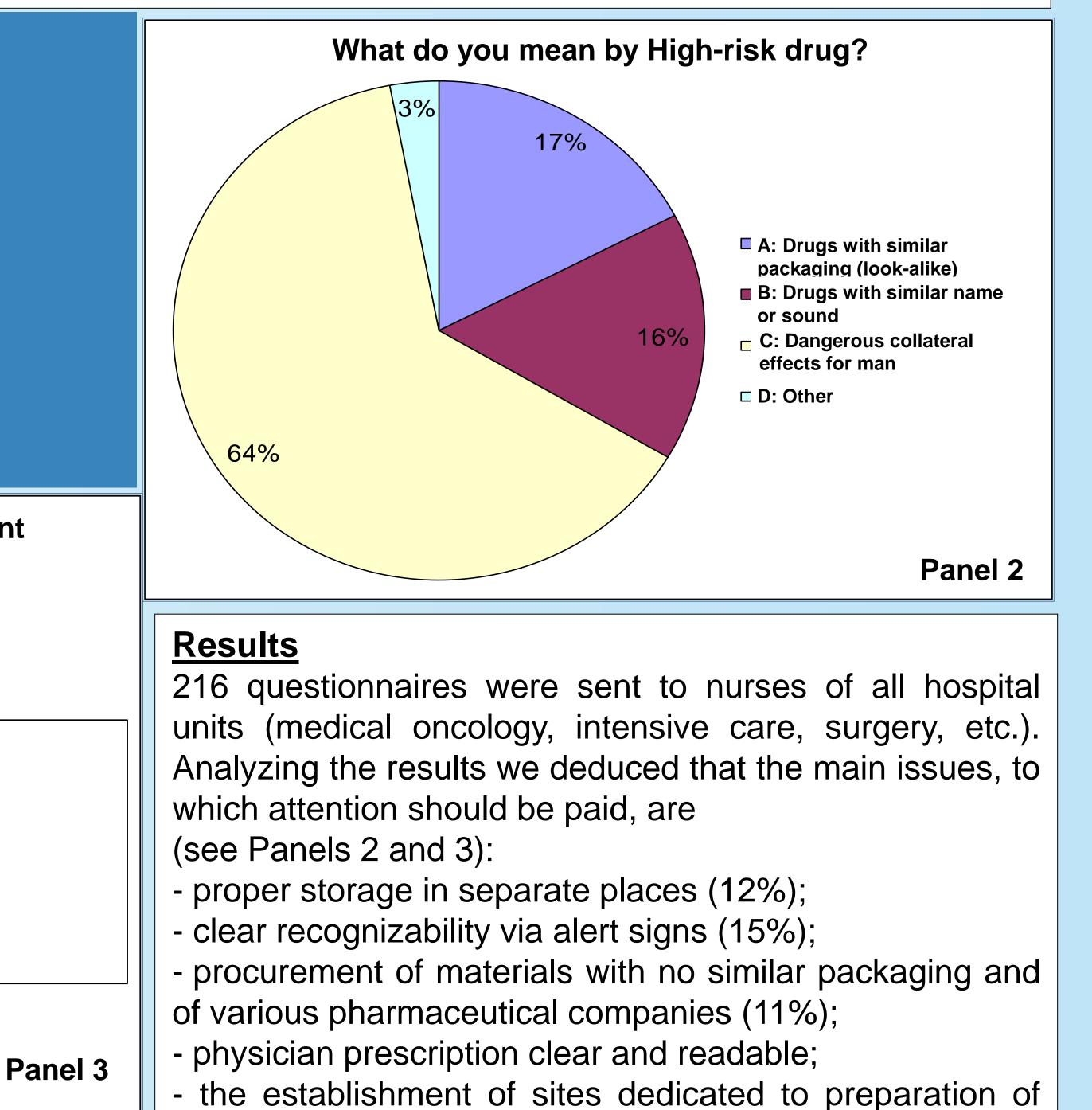
## **Discussion**

The results led to the Pharmacy Division in cooperation with the Division of Anaesthesia and Intensive Care, the Quality Service, the Medical Oncology Department and the Risk Manager, to establish a procedure for the management of high-risk medications, at first defining a list of drugs considered in IEO as high-risk.

The list includes adrenergic agents (adrenaline, isoprenaline, noradrenaline), concentrated electrolytes (concentrated sodium chloride, concentrated and concentrated potassium chloride), insulin, heparin, paralyzing agents, narcotics and antitumor agents.

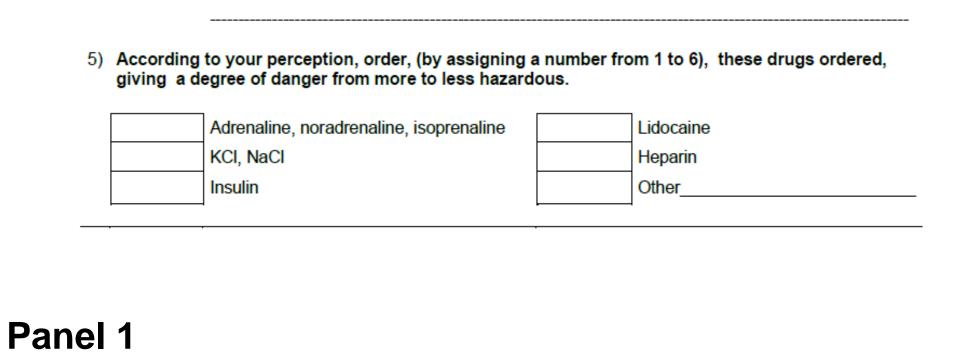
For each of these sets we produced a card displaying the main information (category, active drug, dosage, dilution, compatibility, stability after opening, risks and precautions) in order to train operators and instruct them in proper management.

We also created a list of LASA drugs present in the Institute proposing alternative solutions, such as the purchase from different manufacturers and/or storage in separate locations.

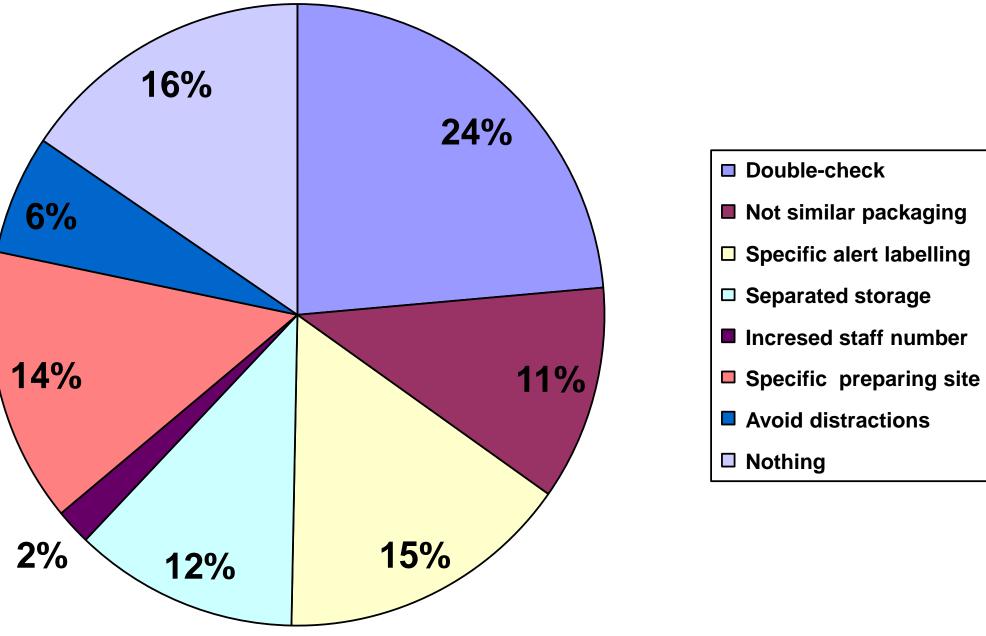


"drug risk", high focusing dangers on linked to the effects on the humans and possibility to confuse drugs with similar names (sound-alike) or similar packaging (look-alike), known like LASA.

Questions 2 and 3 asked nurses to specify the place where they prepare high-alert drug and, therapy more specifically, if there were dedicated places where they could do it. Question 4 enters into the merit of the types of drugs considered highbetween risk adrenergic agonists (adrenaline, noradrenaline and isoprenaline), concentrated electrolytes (potassium) chloride and sodium chloride), insulin, lidocaine and heparin. Finally, with question number 5, we asked suggest nurses to possible management measures to reduce the errors.



Do you think that we can define particular management procedures to reduce errors?



the establishment of sites dedicated to preparation of therapies (14%), without distractions (6%);
revision of workers shifts and of workloads (26%) in order to allow the implementation of double-checking of preparation and administration of drugs.

## **Conclusions**

With these assessments we defined a specific procedure which governs the management of IEO high-alert drugs in order to reduce the occurrence of medication errors, with an impact on the quality of offered service and patient quality of life.

